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Introduction

This guide replaces what was previously called “The Guide for Officers” and typically released annually, though it had been many years since it was thoroughly updated. With the approval of the revised bylaws at the end of 2011, the Guide was extensively reviewed and updated. With the advent of the Members Only section of the AHS website (www.vtol.org/my-ahs) we now have the opportunity to make frequent updates to the Guide and also make it available to all of our members, now as the “Officers and Members Guide” or “OMG”.

We hope you find the many different sections of the OMG to be informative, enlightening and useful. Obviously, some sections will only be useful to Chapter Officers, but by opening them up to all AHS members, others may find the volunteer positions to be demystified. We hope that this may be a way to encourage all of our members to be more participatory, as we continue to forge ahead in our efforts toward reaching our Vision and serving our Mission.

Sincerely,

Michael J. Hirschberg
Executive Director
15 October 2012
Mission

The American Helicopter Society (AHS) International is the world’s premier professional vertical flight technical society. Since its inception in 1943, AHS has provided an international forum through which to expand the body of knowledge of vertical flight. The Society is the global resource for information on vertical flight technology.

Vision

To provide global leadership for scientific, technical, educational and legislative initiatives that advance the state-of-the-art of vertical flight.
ARTICLE I. Name

The name of the Corporation shall be: THE AMERICAN HELICOPTER SOCIETY INTERNATIONAL, INC. ("Society").

ARTICLE II. Purpose and Mission

As provided more fully in the Corporation’s amended and restated Certificate of Incorporation, the purpose of the Society is to engage in educational and scientific activities, consistent with section 501(c)(3) of the Internal Revenue Code (“Code”), that advance the theory and practices of the science of vertical flight aircraft. The mission of the Society is to satisfy the technological, educational, informational, and advocacy needs of the global vertical flight community.

ARTICLE III. Members

(1) Classification of Members

Members of the Society shall consist of the following classes and such additional classes as the Board of Directors (“Board”) may designate from time to time:

a. Individual Members

1. Regular Membership

   Regular Membership shall be granted to any individual of acceptable moral character who displays an active and constructive interest in the purpose and mission of the Society. Regular members are uniquely eligible and qualified to hold office, serve on the Board, and vote on the affairs of the Society. "Voting Members" refers to individual regular members only.

2. Student Membership

   Student membership shall be granted to any student registered in an approved academic institution and who displays an active and constructive interest in the purpose and mission of the Society.

   "Members," except where otherwise specified, refers to individual members of the Society.

b. Institutional Members

1. Corporate Member

   Any duly constituted corporation or business which has an appropriate interest in the purpose and mission of the Society, and which pays the annual fees established by the Board, may be granted membership in the Society as a Corporate Member. Corporate Members shall be approved by the AHS Executive Director.

2. Educational Member
Any approved library or institution of engineering or technical training that has an appropriate interest related to vertical flight aircraft, and which pays the annual fees established by the Board, may be granted membership in the Society as an Educational Member. Educational Members shall be approved by the AHS Director of Membership.

(2) **Division of Membership**

Individual regular members of the Society will be divided into chapters as may be designated by the Board. Each chapter may form such auxiliary organizations to support and promote the purpose and mission of the Society, not inconsistent with the amended and restated Certificate of Incorporation of the Society. Such chapters or auxiliary organizations shall not interfere in any way with the activities or affairs of the Society.

(3) **Fees, Dues Etc.**

The Board may establish fees and dues and augment the classes of and vary the specifications concerning Members, provided the Board does not discriminate within classes or exercise this right in such a way as to vary voting privileges. The Executive Director shall maintain a record of the fees and dues established by the Board for various classes of membership in the Society.

(4) **Expulsion**

The Board shall have the right to expel any Member for conduct which the Board deems, in its sole discretion, is against the best interests of the Society.

**ARTICLE IV. Board of Directors**

(1) **Board Membership**

a. The business and property of the Society shall be managed and controlled by the Board. The Chair of the Board, the President, the Secretary/Treasurer, the Vice Presidents, and the Technical Director shall serve as Directors. In addition to the foregoing, Voting Members shall elect Directors-at-Large, one for each of the then existing Regions of the Society. Additionally, the Chair of the Board is permitted to appoint not more than three additional Directors, to be known as “Appointed Directors.” Only the individuals designated above shall be eligible to serve on the Board and vote as Directors of the Society.

b. If the majority of the Directors shall agree in writing to any actions to be taken by the Society, such action shall be valid as though authorized at a Board Meeting.

(2) **Executive Committee**

The Executive Committee – consisting of the Chair of the Board, the President, the Secretary/Treasurer, and the Technical Director – is responsible for selecting the Executive Director and determining his or her compensation and term of office. The Executive Committee shall perform such other duties and have such other powers and authority as may be delegated by the Board, including the authority to exercise all the powers of the Board while the Board is not in session. In the event of a tie in any matters of voting within the Executive Committee, the Chair of the Board’s vote shall prevail. The Executive Committee shall report to the Board on its activities.

**ARTICLE V. Officers**

(1) **Titles.** The following are the Regular Officers of the Society.

a. Chair of the Board
b. President  
c. Secretary/Treasurer  
d. Technical Director  
e. Executive Director  
f. Regional Vice Presidents  
g. International Vice Presidents  
h. Washington, D.C. Vice President  
i. Membership Vice President  
j. Directors-at-Large  
k. Appointed Directors  
l. Special Officers  

(2) Election, Term and Duties  

a. **Chair of the Board**  

**Election** – The Chair of the Board (or “Chair”) shall be elected by a plurality of ballots received from Voting Members in a duly-constituted annual election.  

**Term** - The one-year term shall commence upon adjournment of the annual meeting following election of the Chair.  

**Duties** – The Chair of the Board shall preside at Board meetings; shall serve as Chair of the Awards Committee; and, in the event that the office of the President becomes vacant, shall assume the duties of the President until a replacement is elected.  

b. **President**  

**Election** – The President shall be elected by a plurality of ballots received from Voting Members in a duly-constituted annual election.  

**Term** - The one-year term shall commence upon adjournment of the annual meeting following election of the President.  

**Duties** – The President shall be the chief executive officer of the Society; shall preside at all national meetings of the Board when the Chair of the Board is not present and presiding; shall direct the Executive Director in the performance of his or her duties and shall perform such other duties as are necessary and proper, or which the Board may from time to time direct.  

c. **Secretary/Treasurer**  

**Election** – The Secretary/Treasurer shall be elected by a plurality of the ballots received from the Voting Members in a duly-constituted annual election.  

**Term** - The one-year term shall commence upon adjournment of the annual meeting following election of the Secretary/Treasurer.  

**Duties** – The Secretary/Treasurer shall administer regional activities of the Society and promote membership and interest in and activities of the Society at the regional level at each meeting of the Board; review the audited financial statements by the Society’s outside auditor and report on such statements to the Board; and perform such other duties as are necessary and proper to the conduct of the office of Secretary/Treasurer, or which the Board may from time to time direct.  

d. **Technical Director**
Appointment – The Technical Director shall be appointed by the President from among candidates proposed by the Technical Council (described in Article VI below) in accordance with the Society’s operating procedures (“The Officers’ Guide”).

Term – The Technical Director shall serve a two (2) year appointment.

Duties – The Technical Director shall oversee and supervise all technical activities of the Society; chair the Technical Council; appoint the Editor-in-Chief of The Journal of the American Helicopter Society (“Journal”); appoint the Technical Council Deputy Directors and the Forum Technical Chair; maintain guidelines for the conduct of the technical activities of the Society; and perform such other duties as are necessary and proper to the conduct of the office, or which the Board may from time to time direct.

e. Executive Director

Appointment – The Executive Committee shall appoint the Executive Director.

Term – The term of the Executive Director shall be indefinite, subject to termination by either party upon written notice to the other, stating when (not less than sixty days thereafter) such termination shall be effective.

Duties – The Executive Director shall manage the day-to-day affairs of the Society in accordance with the job description provided by the Board; attend all meetings of the Board and the Executive Committee, unless specifically instructed by the Board not to attend, but shall not have the right to vote; affirmatively assert, at any meeting of the Board or Executive Committee, any rule or principle set forth in these bylaws to guide any Director, the Board, and other properly constituted agents of the Society; serve as an ex-officio, non-voting member of all committees; record all votes, actions and the minutes of all proceedings of the Board, the Executive Committee, and any other committees when required; give, or cause to be given, notice of all meetings of the Board; maintain custody of the corporate funds and securities of the Society; keep full and accurate accounts of receipts and disbursements of the Society; deposit all monies and other valuables in the name and to the credit of the Society into depositories designated by the Board; disburse the funds of the Society as ordered by the Board or the President; prepare annual financial statements or at such other intervals as the Board or the President shall direct; and perform such other duties as are necessary and proper to the conduct of his or her office, or which the Board may from time to time direct.

f. Regional Vice Presidents

Election – Regional Vice Presidents shall be elected by a plurality of the ballots received from the Voting Members from the appropriate region.

Term – Regional Vice Presidents shall be elected for two (2) year terms commencing upon the adjournment of the annual meeting following their election. There is no limit to the number of consecutive or non-consecutive terms that an elected Regional Vice President may serve. In keeping with the process enacted upon the establishment of the Society, one-half (or one-half plus or minus one, as the case may be) of the Regional Vice Presidents shall be elected annually, with the other half elected the following year.

Duties – Regional Vice Presidents shall administer regional activities of the Society; promote membership and interest in and activities of the Society at the regional level; represent the members of the region at each meeting of the Board; and shall perform such other duties as are necessary and proper to the conduct of the office, or which the Board may from time to time direct. The Regional Vice President shall prepare and submit a written report to the Executive Director prior to all Board Meetings regarding finances, activities and concerns for the Region. Each Regional Vice President shall form a nominating committee for the purpose of selecting the subsequent nominees for Regional Vice President and Director-at-Large from the active voting membership of each Region for which their term expires. These recommended candidates for their respective offices shall be, by virtue of such selection, duly nominated
candidates for their respective offices. The committee shall obtain written permission from each nominee prior to publicizing his or her name for election purposes. All nominations shall be submitted to the President by January of each year.

g. **International Vice Presidents**

**Appointments** – Up to three International Vice Presidents may be appointed by the President from individual regular members active in international affairs within the scope and related to the purpose of the Society.

**Term** - The International Vice Presidents shall serve for one year terms, but may be reappointed indefinitely.

**Duties** - The International Vice Presidents shall represent regional activities of the Society. They shall promote Society membership, interest in the Society and activities of the Society internationally. They shall also represent the Society at international functions to enhance the Society’s purpose and to promote individual membership in the Society as well as support regions or Chapters of the Society outside of the United States of America.

h. **Washington, D.C. Vice President**

**Appointment** – Appointed by the Chair.

**Term** – The Washington, D.C. Vice President shall serve for a one year term, but may be reappointed indefinitely.

**Duties** – The Washington, D.C. Vice President shall assist and advise the Executive Director in advocating for science and technology research before Congress and U.S. government agencies such as the Department of Defense and the National Aeronautics and Space Administration (NASA). He or she shall also solicit corporate memberships among corporations with a presence within the Washington, D.C. metropolitan area.

i. **Membership Vice President**

**Appointment** – Appointed by the Chair.

**Term** – The Membership Vice President shall serve for a one year term, but may be reappointed indefinitely.

**Duties** – The Membership Vice President shall lead the Membership Committee and work closely with the Regional Vice Presidents, Chapter officers and the Board in building membership, including Individual Members and Corporate Members.

j. **Directors-at-Large**

**Election** – Directors-at-Large shall be elected by a plurality of the ballots received from the Voting Members from the appropriate region.

**Term** – The Directors-at-Large shall be elected for two (2) year terms commencing upon the adjournment of the annual meeting following their election. There is no limit to the number of consecutive or non-consecutive terms that an elected Director-at-Large may serve. In keeping with the process enacted upon the establishment of the Society, one-half (or one-half plus or minus one, as the case may be) of the Directors-at-Large shall be elected annually, with the other half elected the following year.

**Duties** – Directors-at-Large shall assist the Regional Vice Presidents in administering regional activities of the Society, promote membership and interest in and activities of the Society at the regional level;
represent the members of the region at each meeting of the Board; and shall perform such other duties
as are necessary and proper to the conduct of the office, or which the Board may from time to time direct.

k. **Appointed Directors**

**Appointment** – Up to three additional Directors may be appointed by the Chair.

**Term** – Directors appointed by the Chair shall serve at the pleasure of the Chair for the duration of the
appointing Chair’s term. Such Appointed Directors may be appointed consecutively for an unlimited
number of terms.

**Duties** – Appointed Directors shall perform such duties as shall be delegated to them by the Chair.

l. **Special Officers**

**Appointment** – The Chair may appoint Special Officers as needed.

**Term** – Special Officers appointed by the Chair shall serve at the pleasure of the Chair for the duration of
the appointing Chair’s term. Such Special Officers may be appointed consecutively for an unlimited
number of terms.

**Duties** – Special Officers shall perform such duties as shall be delegated to them by the Chair, but shall
not also serve as directors and hence have no voting privileges.

(4) **Vacancies**

Any vacancy occurring in any Board position other than a Regional Vice President may be filled by a
replacement appointed by the Chair for the unexpired term. In the event of a vacancy occurring in the
office of a Regional Vice President an election shall be held among the Voting Members who are
residents of the appropriate region to elect a replacement to fill the unexpired portion of the term.

(5) **Bonding**

Persons entrusted with funds will be furnished a fidelity bond as approved by the Board.

**ARTICLE VI. Society Committees**

(1) **Standing Committees**

Membership
Nominating
Annual Forum
Awards
Technical Council

(2) **Special Committees**

Special Committees may be constituted by the Chair of the Board to study specific problems as may be
required to perform other duties.

(3) **Responsibilities and Duties of Committees**

a. Committees shall report to the Board. Actions taken by committees shall be subject to ratification by
the Board. All committees and their technical staffs shall prepare and keep up-to-date policy guidelines
on their method of operation for the conduct of the various activities of the Society.
b. Duties of the standing committees shall be as set forth herein and as further amplified in the Officers’ Guide. The Officers’ Guide is to be reviewed and updated annually by the AHS staff.

c. The Membership Committee shall be comprised of the membership chairs of the individual Chapters. The Committee shall create membership recruitment campaigns, and shall recommend the expulsion from the Society of Members whose conduct is deemed detrimental to the best interests of the Society. An active membership roster shall be maintained by the AHS Headquarters staff and regularly reported to the Vice President of Membership.

d. The Nominating Committee shall consist of the Executive Committee, chaired by the Chair of the Board and actively supported by the Executive Director. The Nominating Committee, by a plurality of its members, shall select one name each from among the entire roster of then currently active Members as its recommendation for filling the offices of Chair, President, and Secretary-Treasurer. Members of the Nominating Committee are not excluded from running for office. No two of the positions of Chair, President or Secretary-Treasurer may be filled by a representative of the same corporation, institution or government organization.

e. The Annual Forum Committee shall be responsible for Annual Forum of the Society, including the administration, publicity, scheduling and financing within the period and budget prescribed by the Board. The Executive Director shall serve as the Annual Forum Committee Chair. The Forum Technical Chair shall be appointed annually by the Society’s Technical Director. The Technical Director may also appoint a Forum Deputy Technical Chair to assist the Forum Technical Chair.

f. The Awards Committee shall recommend to the Board recipients of the Society’s awards and annual Honorary Fellows. It shall also consider and suggest additional appropriate honors. The Chair of the Board shall serve as Chair of the Awards Committee. The Technical Director shall be a committee member. The other three members of the committee shall be selected by the Chair of the Board for a three-year term with one member representing each of the following: United States Government; the Society’s Corporate Members; and the Academic community. The Board Chair’s selection of Awards Committee members shall be ratified by the Board. The three appointed Committee members need not be selected from among the current Board. Each Awards Committee member is expected to serve and not delegate this responsibility unless circumstances occur in which his or her duties must be delegated to another person due to illness, absence from the country, or other extreme circumstances. In such cases, the delegated person will assume the member’s Awards Committee responsibilities. The list of Society awards will be specified in the Officer’s Guide.

g. The Technical Council shall consist of the following positions and committees, as specified in the Officers’ Guide, reporting to the Technical Director (chairperson of the Technical Council): Deputy Technical Directors, Editor-in-Chief of the Journal; the Technical Committees, and other positions and committees created in support of the purpose of the Technical Council. The Technical Council shall maintain the standards of the Society’s technical publications and meetings; organize such meetings; furnish technical advice and guidance to the Board, Officers and other Committees; and shall solicit materials and assistance to this end, in addition to editing the Journal and other technical publications. Other activities in keeping with the Society’s purpose and mission may be undertaken by direction of the Board or a committee established for this purpose.

ARTICLE VII. Regions and Chapters

(1) The area served by the Society shall be divided into no fewer than five (5) nor more than fifteen (15) geographical regions in accordance with the geographic distribution of the membership and the activity of the areas. By majority vote of the Board, Regions may be redefined, divided or combined.

(2) The Regional Vice Presidents may, upon request of the members of particular regions, establish local Chapters when the distribution of the membership or other factor makes such action desirable. The Chapters will be administered by Chapter Presidents elected by the Voting Members participating therein
and will report to the Regional Vice Presidents. Each U.S.-based Chapter will present to their respective Regional Vice President and the Executive Director, not later than March 31 of each year, an accounting of revenues and expenditures in order that the Executive Director may file an IRS Form 990 and any other Federal or State tax return for the Society.

(3) The function of the Regions and Chapters shall be to hold local meetings, discussions, lectures and demonstrations consistent with the purpose of the Society as set forth in Article II of these Bylaws.

(4) The Regions and Chapters of the Society shall not assess local dues upon members for participation in the activities of the Regions or Chapters.

(5) Records of the activities of approved Regions and Chapters and their operating rules shall be provided to and shall be maintained by the Executive Director.

ARTICLE VIII. Meetings of Members and Directors

(1) There shall be an annual meeting of the Members of the Society (the “Annual Forum”) in the Spring of each year, at a location designated by the Board.

(2) In addition to the Annual Forum, the Society may sponsor or co-sponsor additional International Technical Meetings. Such meetings must be endorsed by the Technical Director and approved by the Board in accordance with procedures outlined in the Officers’ Guide. For purposes of this paragraph, “International Technical Meetings” are defined as meetings for which a general call for papers is issued or a significant number of papers invited from outside of the sponsoring region.

(3) Special meetings of the Voting Members of the Society may be called by the Board, the Chair or the President, or shall be called by the President upon the written request of ten percent (10%) of the Voting Members. Such meetings shall be pursuant to written notice which shall state the business for which they are called, and any other business to be transacted at any such special meeting. Voting Members shall be given no less than thirty (30) days advance written notice.

(4) The Board shall conduct a regular meeting at the time and place of the Annual Forum and at least one other meeting during the year. The Board shall also meet upon the call of the Chair at such times and places as he or she may designate, and shall also be called to meet upon demand of a majority of its members. Notices of all meetings of the Board shall be sent to each member of the Board at least thirty (30) days in advance of such meetings.

ARTICLE IX. Elections

(1) Elections by Voting Members shall be by ballot cast not later than the 15th of April in each year.

(2) In addition to nominees selected by the Nominating Committee, there shall be placed on the annual ballot any candidate(s) named in written petition(s) signed by at least fifty (50) Members and endorsed by a Regional Vice President and received by the Society before the 15th day of February.

(3) Voting Members shall at all times in respect to the election for any office, possess the right to write on the ballot the name of a candidate, and to this end no ballot shall be valid unless provided thereon spaces appropriately placed in which to write as many names as there are positions to be filled.

(4) Of the nominated and write-in candidates for each respective office, those receiving the plurality of votes shall be deemed elected.

ARTICLE X. Voting and Quorums
(1) Every question which shall come before a meeting of the Society's Voting Members or the Board shall be decided by a majority of the votes cast, unless otherwise provided.

(2) The Board may order the submission of any question to the Voting Members by letter ballot, or the Voting Members may so order at any meeting of the Society.

(3) The presence of at least one-half (50%) of the Directors in office shall be necessary to constitute a quorum of the Board. The acts of a majority of the Directors present at a meeting at which a quorum is present shall constitute the acts of the Board. The majority of those directors present at any meeting of the Board, at which a quorum of Directors is present, may adjourn any meeting of the Board from time to time and place to place without sending notice of such adjourned meeting to the Directors.

ARTICLE XI. Notices

(1) Written notice may be given to Members by mail, fax, electronic mail, or publication in the Society's periodicals and publications, and to the Society at its principal office designated by the Board.

ARTICLE XII. Dues

(1) Members shall pay dues as determined by the Board.

(2) There shall be no return of fees or dues when a Member severs connections with the Society.

ARTICLE XIII. Conflict of Interest and Compensation Policy

(1) Prevention of Conflicts of Interest

Any officer, director or employee of the Society who has a direct or indirect financial interest in a transaction or arrangement which might benefit the private interest of such officer, director or employee of the Society ("Interested Person") shall disclose the existence of such financial interest and all material facts related thereto to the Board considering the proposed transaction or arrangement. A person has a financial interest if the person has, directly or indirectly, through business, investment or family, any of the following: a) an ownership or investment interest in any entity with which the Society has a transaction or arrangement; b) a compensation arrangement with the Society or with any entity or individual with which the Society has a transaction or arrangement; or c) a potential ownership or investment interest in, or compensation arrangement with, any entity or individual with which the Society is negotiating a transaction or arrangement. Following disclosure of the financial interest and all material facts related thereto, and any discussion with the Interested Person, the Interested Person shall leave the board meeting while the Board of Directors discuss and vote on whether a conflict of interest exists. If the Directors determine that a conflict of interest exists, they shall follow procedures addressing such conflict of interest pursuant to written Conflict of Interest and Compensation Guidelines adopted to avoid “excess benefit transactions” subject to intermediate sanctions and excise taxes under Section 4958 of the Internal Revenue Code of 1986, as amended, and the regulations thereunder.

(2) Compensation Policy.

No Interested Person shall vote on any matter relating to his or her compensation, irrespective of whether said compensation is received directly or indirectly, from the Society. The Society shall endeavor to ensure that all compensation arrangements affecting Interested Persons are objectively fair, ordinary and reasonable.
ARTICLE XIV. Amendments

a. Amendments to the Articles of Incorporation or these Bylaws may be initiated by any Director or by five percent (5%) of the Voting Members by submitting the proposed amendment to the Board in writing for Board consideration, approval and recommendation to the Voting Members that the amendment be approved and adopted as required under applicable law. The Board shall consider such proposed amendment(s) within thirty (30) days of its presentation to the Board.

b. Amendments shall be adopted when they have been approved by a majority of the votes cast by the Board and the Voting Members, as provided in Article X, either who are present at a meeting or who vote via written or electronic ballot, and the Board shall immediately cause such amendment to be appropriately implemented as provided under applicable law.

ARTICLE XV. Tax-Exempt Status and Public Support Status

(1) Tax-Exempt Status

The affairs of the Corporation at all times shall be conducted in such a manner as to assure its status as an organization defined in Internal Revenue Code Section 501(c)(3) which is qualified for exemption from tax pursuant to Section 501(c)(3) of the Internal Revenue Code.

(2) Public Support Status

The Society at all times shall be conducted in such manner as to assure its status as a publicly supported organization defined in Internal Revenue Code Sections 509(a)(1) or 509(a)(2).

ARTICLE XVI. Dissolution

Upon dissolution of the Corporation, any assets remaining after paying or making provision for the payment of all the liabilities of the Corporation shall be disposed of in accordance with applicable state laws and section 501(c)(3) of the Code.

CERTIFICATION

I hereby certify that the foregoing bylaws of The American Helicopter Society International, Inc. are the current rules of operation.

Date: December 27, 2011

By: _______________________
Title: Executive Director
1. The name of the corporation is The American Helicopter Society International, Inc. ("Corporation").

2. The Corporation is nonprofit and shall not have or issue shares of stock or make distributions.

3. The Corporation shall have two classes of members designated as follows: a) individual members, consisting of regular members and student members; and b) institutional members, consisting of corporate members and educational members. The manner of election and appointment of the Corporation’s officers and directors are set forth in the Corporation’s Bylaws.

4. The nature of the activities to be conducted or the purposes to be promoted by the Corporation shall be as follows:

The Corporation shall be organized and operated exclusively as an organization authorized to engage in such purposes and activities as permitted by section 501(c)(3) of the Internal Revenue Code of 1986 (or the corresponding provisions of any future United States Internal Revenue law) ("Code") and as enumerated in Treasury Regulation section 1.501(c)(3)-1(d)(2), including, but not limited to the following purposes:

a) to engage in educational and scientific activities that advance the theory and practices of the science of vertical flight aircraft;

b) to foster, promote and support appreciation, recognition and public awareness of the history and legacy of vertical flight and its contributions to the world;

c) to foster, promote and support appreciation, recognition and public awareness of the importance of achieving advances and improved safety and reliability in vertical flight operations for military and civilian purposes;

d) to foster, promote and support research into expanding use of vertical flight aircraft for humanitarian assistance, disaster response, search and rescue, medical evacuation, fire fighting, law enforcement, and domestic security;

e) to foster, promote and support research into expanding use of vertical flight aircraft for commercial and passenger transport to reduce congestion, enhance mobility, and improve environmental quality;
f) to foster, promote and support research into improving environmental compatibility of vertical flight aircraft via research into quiet technology and reduced carbon emissions;

g) to underwrite, sponsor, and support educational activities, curricula development, seminars, conferences and presentations as to the topics set forth above in schools, colleges, universities and in other public venues for the benefit of interested members of the public throughout the United States and internationally;

h) to provide grants, funds, aid, awards and assistance to qualified aspiring and established aeronautical engineers and scientists engaged in research concerning vertical flight technology, applications and operations;

i) to accomplish the above purposes by all reasonable and practical means, including the dissemination of information in all forms and through all media, to the public in the United States and internationally; and

j) to do any lawful acts and enter into all lawful agreements that may be necessary, useful, suitable or proper to accomplish the charitable purposes of the Corporation, provided the same is permitted under Section 501(c)(3) of the Code.

The Corporation shall not engage, other than to an insubstantial degree, in activities that are not in furtherance of its purposes.

In furtherance of such purposes, the Corporation shall have full power and authority:

(A) To act as a forum for the exchange of information and materials among other organizations, institutions and members of the general public in connection with the foregoing purposes both in Internet-based formats and in other means and media;

(B) To publish, conduct, sponsor, promote and support academic and scholarly studies, research, publications, periodicals, lectures, seminars, meetings, conferences and discussions on matters related to the foregoing purposes in the United States and internationally;

(C) To collect and acquire books, manuscripts, periodicals, printed materials and other property (both tangible and intangible, personal and real) useful in connection with the foregoing purposes and to donate such property to universities, public libraries and other institutions and organizations or otherwise make the property so acquired available for research, study and dissemination of knowledge;

(D) To acquire or receive from any individual, firm, association, corporation, trust or foundation, by deed, gift, purchase, bequest, devise, appointment, or otherwise, cash, securities and other property, tangible or intangible, real or personal, and to hold, administer, manage, invest, reinvest, and disburse the principal and income solely for the purposes set forth herein;
(E) To distribute property for such purposes in accordance with the terms of gifts, bequests, or devises to the Corporation not inconsistent with its purposes, as set forth in this Amended and Restated Certificate of Incorporation, or in accordance with determinations made by the Board of Directors pursuant to this Amended and Restated Certificate of Incorporation;

(F) To distribute property and extend financial aid and support through grants, gifts, contributions, or other aid or assistance to qualified Code section 501(c)(3) organizations or for their purposes;

(G) To receive and maintain a fund or funds, to invest or reinvest such fund or funds and to apply the income and principal of any funds received to promote the goals and purposes set out herein; and

(H) To perform all other acts necessary or incidental to the above and to do whatever is deemed necessary, useful, advisable, or conducive, directly or indirectly, to carry out any of the purposes of the Corporation, as set forth in this Amended and Restated Certificate of Incorporation, including the exercise of all other powers and authority enjoyed by nonstock, nonprofit corporations generally by virtue of the provisions of the Connecticut Revised Nonstock Corporation Act (within and subject to the limitations of section 501(c)(3) of the Code.)

The Corporation shall serve only such purposes and functions and shall engage only in such activities as are consistent with the purposes set forth in this Article 4 and with its status as an organization described under section 501(c)(3) of the Code or successor Code section.

5. The Corporation shall be neither organized nor operated for pecuniary gain or profit.

a) No part of the net earnings of the Corporation shall inure to the benefit of, or be distributable to, any director, officer, or member of the Corporation or any other private person; but the Corporation shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes as set forth in Article 4 hereof.

b) The Corporation shall not carry on propaganda, or otherwise attempt to influence legislation, to an extent that would disqualify it for tax exemption under section 501(c)(3) of the Code by reason of attempting to influence legislation. The Corporation shall not participate in, nor intervene (including the publishing or distribution of statements) in any political campaign on behalf of or in opposition to any candidate for public office.

c) Notwithstanding any other provisions of this Amended and Restated Certificate of Incorporation, the Corporation shall not carry on any other activities not permitted to be carried on:
(i) by a corporation exempt from federal income taxation under section 501(c)(3) of the Code, or the corresponding section of any future federal tax code; or

(ii) by a corporation, contributions to which are deductible for federal income tax purposes under section 170(c)(2) of the Code, or the corresponding section of any future federal tax code.

It is intended that the Corporation shall have, and continue to have, the status of an organization which is exempt from federal income taxation under section 501(c)(3) of the Code. All terms and provisions of this Amended and Restated Certificate of Incorporation and the Bylaws of the Corporation and all authority and operations of the Corporation, shall be construed, applied and carried out in accordance with such intent.

6. The activities and affairs of the Corporation shall be managed by a Board of Directors. The number of directors which shall constitute the whole Board of Directors shall be such as from time to time shall be fixed by, or in the manner provided in, the Bylaws, but in no case shall the number be fewer than three (3). The directors shall be elected or appointed as provided in the Bylaws of the Corporation.

The directors shall have the powers and duties set forth in this Amended and Restated Certificate of Incorporation and in the Bylaws, to the extent that such powers and duties are not inconsistent with the status of the Corporation as a nonstock, non-profit corporation which is exempt from federal income taxation under section 501(c)(3) of the Code.

7. Upon dissolution of the Corporation, the Board of Directors shall, after paying or making provisions for payment of all of the liabilities of the Corporation, dispose of all of the assets of the Corporation by distributing those assets exclusively for the purposes of the Corporation in such manner, or to such organization or organizations organized and operated exclusively for public charitable uses and purposes as shall at the time qualify as exempt from taxation under section 501(c)(3) of the Code, as the Board of Directors shall determine. Any such assets not so disposed of shall be disposed of by a court of competent jurisdiction for the county in which the principal office of the Corporation is then located, exclusively for such purposes or to such organization or organizations as said court shall determine, which are organized and operated exclusively for such purposes.

8. The personal liability of a director of the Corporation to the Corporation or its members for monetary damages for breach of duty as a director shall be limited as set forth in and shall be subject to the terms and conditions of Conn. Gen. Stat. Sec. 33-1026(b)(4), as amended from time to time.

9. All references in this Amended and Restated Certificate of Incorporation to sections of the Internal Revenue Code shall be considered references to the Internal Revenue Code of 1986, as from time to time amended, and to the corresponding provisions of any
applicable future United States Internal Revenue law, and to all regulations issued under such sections and provisions.

10. This Amended and Restated Certificate of Incorporation and the Bylaws of the Corporation may be amended at any time and from time to time by the affirmative vote of a majority of all of the directors then in office; provided, however, that the amendment shall not be effective unless and until it has been ratified and approved by a majority of the valid votes cast by individual regular members.
AHS International Staff

The AHS staff is lean but extremely efficient, with a staff to member ratio of 1:1,000 – one of the lowest in association organizations. The following descriptions indicate the basic areas of responsibility for each of the AHS headquarters staff directors. Any questions that you may have can be directed to the staff member who covers that area. You can contact us at +1-703-684-6777 – our extensions are listed below.

Mike Hirschberg
Executive Director, x111
hirschberg@vtol.org

Mike Hirschberg assumed the duties of the AHS Executive Director on June 1, 2011, after 20 years in the aerospace industry, primarily in vertical flight. As the Executive Director, he is responsible for the execution of the strategic direction set by the AHS Board of Directors.

He represents the rotorcraft industry and advocates for the advancement of vertical flight technology to the executive and legislative branches of the government. Mr. Hirschberg is the publisher of all society publications, including Vertiflite, the Journal of the AHS, and the AHS Annual Forum Proceedings. He also serves as Executive Director of the Vertical Flight Foundation, the Society's philanthropic arm.

Mr. Hirschberg was previously a principal aerospace engineer with CENTRA Technology, Inc., providing technical and program management support for over 10 years to the Defense Advanced Research Projects Agency (DARPA) and Office of Naval Research (ONR) on advanced aircraft and rotorcraft concepts. Prior to this, Mr. Hirschberg worked from 1994 to 2001 in the Joint Strike Fighter (JSF) Program Office, supporting the development of the X-32 and X-35 vertical flight propulsion systems.

He served as the Managing Editor of Vertiflite magazine from 1999 to 2011, and had been a contributing author since 1997. Mr. Hirschberg is an internationally-known lecturer, frequently presenting on vertical flight at short courses, meetings, conferences and universities, and is the author/co-author of nearly 100 publications on helicopter, V/STOL and advanced aircraft developments, including three books.

Mr. Hirschberg holds a B.S. in Aerospace Engineering from the University of Virginia and a M.E. Mechanical Engineering from Catholic University of America. He is currently completing an MBA at the Virginia Polytechnic Institute & State University (Virginia Tech). He is an Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA), and a Fellow of the Royal Aeronautical Society.

Kay Yosua Brackins
Deputy Director, x103
kbrackins@vtol.org

Kay Brackins joined the Society in 2004 and is now the Deputy Director. Before coming to AHS, she oversaw the graphics, design and production of Vertiflite for over 20 years.

Kay is the principal liaison with the AHS technical community and attends all AHS Technical Council meetings. Kay also works closely with the Forum Technical Chair to coordinate the Forum’s technical sessions and works with the Forum student volunteer program. She is also the point-of-contact for the Student Design Competition and the Lichten Award.

As Director of Graphics, Kay is responsible for the graphics and design of Vertiflite and all Forum and membership promotional material, and is the production manager of the Journal of the American Helicopter Society.
Kay is also the Secretariat Deputy Director of the International Helicopter Safety Team (IHST) and handles all communications, via website, to IHST members. IHST is dedicated to reducing the worldwide helicopter accident rate, both military and civilian, by 80% by 2016.

**David Renzi**  
*Director of Meetings and Advertising, x105*  
drenzi@vtol.org

David Renzi joined the Society in February 2002 and he is the principal coordinator of the annual AHS Forum, the largest event of the year for the Society. He conducts all exhibit sales and coordinates the exhibit hall floor and sponsorships. He also administers the subcontracting for Forum activities including convention and hotel services, tours, special events, transportation, and entertainment.

David works with the Director of Membership in the coordination, planning and scheduling of the Annual Forum and bi-annual Board of Directors meeting.

In his sales role, he is also the principal advertising contact for *Vertiflite* magazine, the AHS website, and all Forum-related publications.

**Liz Malleck**  
*Director of Membership, x107*  
lmalleck@vtol.org

Liz Malleck joined the Society in July 2007 and is responsible for all of the Society's member benefits and services. She develops and implements the individual membership campaigns, interfaces directly with the chapter presidents and membership chairs, and generates the quarterly membership reports and statistics.

She is the liaison for the Society's corporate and educational members, including overseeing the billing and accounts receivables as well as solicitations for new corporate members. Liz handles the transactions made online concerning membership renewals/applications and she oversees all membership address changes. She is also responsible for all of the membership materials that the Society generates, including member applications and the Officer's Guide.

Additionally, Liz is the point-of-contact for the Federal City Chapter meetings and assists in registration for the Society's many specialists' meetings. At the Forum, she is the Exhibitor Registrar, interacting with many of the Society's valuable corporate members. She also runs the AHS Annual Awards Program.

**Randy Johnson**  
*Director of Information Resources, x104*  
rjohnson@vtol.org

Randy Johnson joined the Society in October 2007. He is the Society's in-house IT specialist and is responsible for all network and systems administration. He is also the Society's webmaster, and together with the Director of Membership is responsible for configuration and maintenance of the AHS membership database.

**Holly Cafferelli**
Director of Administration, x100
hcafferelli@vtol.org

Holly Cafferelli joined the Society in June 2006. She is the primary phone coordinator and receptionist, and assists in serving members’ publication needs. As Membership Liaison, Holly assists with updating and renewing individual memberships, as well as mailing all chapter meeting notices and general membership information. Holly is the Editorial Assistant to the bi-monthly publication Vertiflite magazine. She is the principal point-of-contact for purchases of technical papers and books, as well as AHS novelties. Holly is also the Vertical Flight Foundation Scholarship Coordinator.

Contact Us!
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The Board of Directors of AHS International meets twice a year; the first time in the spring at the Forum (with both outgoing and incoming Board members) and the second in the fall. The Board may also elect to hold a winter meeting, e.g. in conjunction with the HAI Heli-Expo Convention. Special meetings of the board may be called at any time in accordance with the bylaws.

Questions that come before the Board are decided upon by a majority of votes cast, unless otherwise provided. There are 26 voting members on the Board:

- Chair of the Board (1)
- President (1)
- Secretary/Treasurer (1)
- Technical Director (1)
- Regional Vice Presidents (7)
- International Vice Presidents (3)
- Directors-at-Large (7)
- Appointed Directors (3)
- Membership Vice President (1)
- Washington, D.C. Vice President (1)

At least one-half of the voting members of the Board must be present at a meeting of the Board to constitute a quorum. If less than a quorum is present, the majority of those present may adjourn the meeting.

AHS headquarters will notify Board members of the dates, times, and locations of Board meetings no later than one month prior to the date of the meeting. At that time, all members making regular presentations, or having new business should prepare written reports and submit these reports to the Society to arrive no later than two weeks prior to the date of the meeting. AHS headquarters will then prepare the final agenda along with the written reports (the "Board Book," and send it to Board members in advance of the meeting. To be considered at Board Meetings, all items of NEW BUSINESS should be contained in the Board Book in the form of a written report.
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Vice President, Membership
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Contents

This document defines the purpose, scope of activity, and methods of operations for the Technical Staff of the American Helicopter Society.

Section I relates to the duties of the Technical Director, Technical Council, Journal Editor and Forum Technical Chair. Section II relates to the Technical Committees, Committee Chairs, Session Chairs and the Deputy Technical Chairs. Section III covers procedures, guidelines and checklists.

Philosophy of Guidelines

These procedures and approaches are guidelines only, and the widest latitude is left to the technical officers and Chairs in the conduct of his or the committee’s business. However, to maintain consistent policies and approaches, a continuous effort should be made to comply with the stated approaches. It is recognized and provided that these guidelines should change as time goes on and there will be instances where deviations will be desirable and proper. For those cases, it is requested that deviations from the guidelines be cleared with the Deputy Director of the committees or the Technical Director prior to the action to assure that there is no violation of fundamental policy. All deviations will be recorded by the Technical Director and reported to the Technical Council at the subsequent Council meeting. These would be used in updating the guidelines.

In general, the purposes of the tenure and other “rules” are to:

1. Provide consistency in policies affecting all committee members.
2. Make sure that we have new people continuously moving in to positions of leadership in the AHS.
3. Avoid retaining people who do not produce or are not active.

Revision

It is the responsibility of the Technical Director and the Deputy Technical Director that Sections I and II of the Guidelines be reviewed for revision and updated every two years. The Guidelines may be revised at any time at the discretion of the Technical Director. The Technical Director will normally assign specific portions of the revision to the most appropriate members of the Technical Staff. Responsibility and distribution are covered in Section II. Committee Chairs may submit suggestions for revision which must be considered by the Technical Director and reviewed by the Technical Council. All revisions must be approved by a majority of the Technical Council. The guidelines will be disseminated by the headquarters office to all members of the Technical Staff and AHS officers either separately or as a part of the Officers’ Guide.

SECTION I – TECHNICAL STAFF

Technical Director:

Appointment – Appointed by the President from among candidates proposed by the Technical Council.

Term – The Technical Director shall serve a two (2) year appointment.

Duties – The Technical Director shall oversee and supervise all technical activities of the Society; chair the Technical Council; appoint the Editor-in-Chief of The Journal of the American Helicopter Society (“Journal”); appoint the Technical Council Deputy Directors and the Forum Technical Chair; maintain guidelines for the conduct of the technical activities of the Society; and perform such other duties as are necessary and proper to the conduct of the office, or which the Board may from time to time direct. The Technical Director is a member of the Awards Committee.

Technical Council

Consists of the following positions as specified in the technical guidelines, reporting to the Technical Director: Technical Deputy Directors, Journal Editor, Forum Technical Chair and Forum Deputy Technical Chair, the Education Committee, Ex-Officio Members, Appointed Members (including a Student Representative), History Chair, and Human Powered Helicopter Coordinator.
Responsibilities and Duties

Duties of the standing technical committees and Technical Council shall be as set forth herein and as further amplified in guidelines to be maintained by each committee and Council member for the ongoing conduct for their respective responsibilities. These guidelines are to be updated annually and filed with the Executive Director.

The Technical Council and Committees shall maintain the standards of the Society’s technical publications and meetings, organize such meetings, and furnish technical advice and guidance to the Board, Officers and other Committees, and shall solicit material and assistance to this end as well as actually edit the Journal of the AHS and other technical publications. Other objectives in keeping with Society objectives may be undertaken by direction of the Board of Directors or a committee established for this guidance.

Tenure and Appointment

Technical Director Responsibilities and Duties

Beyond the responsibilities cited in the Bylaws, the duties of the Technical Director are summarized in the Annual Checklist in Section III. He or she will report in the annual meeting of the Technical Council on activities of the AHS Board and on recommendations for the technical conduct of the society’s business. He or she is responsible for maintaining and updating Section I of these guidelines.

Council Responsibilities and Duties

The Technical Council is appointed by the Technical Director generally from among senior participants in AHS activities such as previous Technical Directors, Forum Technical Chair, Journal Editors, Committee Chairs, and Regional Vice Presidents. The last three Technical Directors automatically serve on the Council. It is desirable but not mandatory that the selected Council represent the major prime contractors, FAA, NASA and each of the military services active in rotorcraft research and development.

The Council is responsible for assisting and advising the Technical Director in the conduct of the technical functions of the Society. The Council also provides an independent auditing body for the monitoring of the technical state of the Society. For the conduct of this function, the senior retiring Technical Director serving his or her final term on the Council provides a critique on the technical state of the Society and other recommendations at the annual meeting of the Technical Council. A written copy of the report is provided to the President of the Society and the Board of Directors.

The Technical Council will otherwise assist the Technical Director as may be appropriate, and in particular, will vote on Lichten Award recommendations, specialists’ meeting approval, guideline revisions, and on many ad hoc questions the Technical Director might suggest.

Journal Editor Responsibilities

The Journal Editor is responsible for the technical quality of the Journal and will approve and edit papers in accordance with the procedure established in Section III – Journal Editorial Review Process. He or she is appointed by the Technical Director. He or she will report to the annual meeting of the Technical Staff on problems of the Journal and recommendations for their solution. He or she is responsible for maintaining and updating the Journal’s Editors’ annual checklist and the Editorial review Process. He or she is appointed by the Technical Director on problems of the Journal and the Editorial review Process as listed in Section III.

Deputy Technical Directors

There are six separate Deputy Technical Directors: Aeromechanics, Vehicle Design, Vehicle Integrity, Systems Integration, and Operations, Product Support and Systems Engineering. They supervise and foster activity in the current standing committees and subgroups.

Forum Technical Chair

The Forum Technical Chair is responsible to the Executive Director for administrative management of the technical sessions. Guidelines for these tasks are contained in Section III. He or she will report on Forum technical session
problems and solutions during the annual meeting of the Technical Council. He or she will maintain and update Section III. He or she is appointed by the Technical Director with concurrence from the Executive Director.

**AHS Participation in Government/Industry**

**Scope**

It is appropriate for the Society to participate in meetings and conferences related to the formulation of standards, criteria, research objectives and requirements for facilities, sponsor forums, support and assist the Vertical Flight Foundation, and encourage and assist related academic endeavors. Such activities may result in the establishment of, or recommendation for, air worthiness, design, test, operating or other standards, or in recommendations concerning research and facility acquisition priorities. The above list is neither all inclusive nor mandatory.

The procedure for governing such participation is to be guided by the following:

a. **Approval** – All such participation will be recommended by the Technical Director and approved by the President.

b. **Participation and Reporting** – With the approval of the President, the Technical Director may request or recommend to the agency, or organization sponsoring the meeting, specific members of the AHS as participants in the conferences, meetings, etc. The recommendation will be based upon the proved competence of the individuals. The appointees will represent the Society, and the affiliation should be acknowledged whenever they make comments during the meeting. During such representation, freedom of expression is granted by the Society. However, at all times, where comments are made, it is to be stated that views are those of the individual, and that they do not represent the views of the Society.

No re-numeration for such participation will be given by the Society without prior approval of the Board.

A participant, representing the Society, must submit a report to the Technical Director, defining pertinent actions and comments and recommending further action to be taken by the Society. The Technical Director will summarize this report for the Board.

c. **Findings** – Study recommendations or specific standards may be formulated by the Technical Committees, appointed committees, or ad hoc groups of members.

The standards will be reviewed and/or approved by: (a) appropriate committee, or a special panel appointed by the President, (b) the Technical Director, (c) the President, and (d) the Board.

After Board approval, the standard or study conclusion will be tentatively adopted by the AHS and transmitted to the requesting organization for consideration and promulgation.

In the case of standards, six months after transmittal, the standards and the action taken by the standardizing organization will be reviewed. Without specific action to nullify it, the standard will become an official standard of the AHS, and means to encourage its acceptance will be considered by the Board or a special group appointed by the Board.

d. **Other Actions** – Participation and activities not covered herein may be handled by the president at his discretion. New policy so adopted will be defined and submitted to the Board for approval. The Executive Director will maintain these policy documents.

**Annual Meeting of Technical Council**

The agenda for the annual meeting of the Technical Council should include but not be limited to:

a. Introduction of new officers – Technical Director

b. Introduction of new Committee Chairs – Deputy Directors

c. Approval

d. Report on activities of the Technical Council and the Board of Directors – Technical Director

e. Highlights of Committee Operations – Deputy Directors
f. Report of Forum Technical Chair

g. Report of Journal Editor

h. Report of Chair of any Specialists' Meetings

i. Report of Student Activities

j. Revisions to Guidelines – Technical Director (Deputy Directors)

k. State of the Society

l. Submission to AHS Forum office of new committee chairs and members of the technical committee

m. New Business

It is also desirable to schedule a separate meeting of the Technical Council, chaired by the Technical Director and attended by the Committee Chair to discuss problems and business of interest only to these two groups.

Guideline Revision

Table II summarizes responsibility for Guideline Revision.

SECTION II – TECHNICAL COMMITTEE GUIDELINES

Purposes of Technical Committees

a. Provide the AHS membership with timely, high-quality technical information. The dissemination of this information is accomplished through the AHS-sponsored technical meetings including the Annual Forum and the regional Specialists’ meetings. The committees:
   - Solicit, evaluate, and select relevant high quality papers, and assess the technical quality of their presentation at the Annual Forum.
   - Support the Journal Editor in the selection process for publication of papers.

b. Offer a center for communication among the various industry and government agencies interested in vertical flight aircraft.

c. Encourage the use of the AHS as a medium by which the members can and should publish their findings.

d. Promote specialists’ meetings in their respective areas of interest. Coordinate with and serve as a link between the AHS and other professional societies as requested.

e. Establish the AHS as an organization to which the government, industry, and the general public can look for assistance, direction, and leadership with respect to vertical flight aircraft.

Additionally, the committees should maintain a strong technical organization, providing a training ground for new Society leaders in their respective fields, and maintain adequate historical records.

Technical Committees

The Technical Committees and their areas of primary responsibility are given in the charters attached herein.

Committee Structure

a. The number of regular committee members, including the chair, should be no less than seven, and generally no more than fifteen.

b. Committee members must be active, respected practitioners in the field of the Committee. Membership should represent government agencies, universities, and should preferably include at least one non-US member. Membership should be sought primarily to represent all facets of the field, and also to achieve a balanced representation of major organizations.
c. A person should serve on only one AHS technical committee at a time. Commitment must be obtained from the member and their supporting organization that he or she will be able to attend one committee meeting per year.

d. All committee members must be members of the Society. A non-member may be proposed for committee appointment, but it must be understood that he or she will join the Society upon accepting appointment.

e. A member appointment is for two years. Reappointment subsequent to a two-year tenure will be on a yearly basis. The appointment will be made by Technical Committee Chair with the prior concurrence of the Deputy Director.

f. It is intended that makeup of the committee will include about 60% “old” members (those with greater than one year of service) and 40% “new.”

g. In addition to the regular members, a maximum of three honorary technical committeemen for each committee may be appointed for a period of six years by the Chair. Prior approval of the Technical Director is required. No more than one appointment per Technical Director is required. No more than one appointment per year may be made for each committee. Honorary committeemen have full membership privileges and responsibilities on the committee, but may not serve as a Chair.

h. Retiring Chairs are encouraged to remain on the committee in an ex-officio capacity. To provide historical continuity, a committee Chair may elect to request one or two past Chairs to serve in an ex-officio capacity.

i. The Chair should provide for a logical successor, preferably experienced committee members, by making sure that at least two qualified members with different affiliations are available.

j. The Chair appoints his successor with the approval of the Technical Director or the Deputy Director. To avoid concentration of committee Chair within one company or areas, at least two people should be recommended for the Chair. (Make sure that the people recommended have demonstrated their ability and willingness to work for the Society, and that their organization will support it. A call to the individual's supervisor assuring the latter may be in order.) The tenure of Committee Chairs should be overlapped so that half are “old” and half are “new.”

k. A technical Chair is appointed for a one-year period with reconfirmation by the Deputy Director at the end of the first year. Customarily a second term has been automatic.

l. The committee Chair will serve as or appoint a Session Chair who will report to the Forum Technical Chair.

m. The Chair will appoint a deputy Chair to assist with the committee business and to take over in the case of an emergency. The deputy may be the Annual Forum Session Chair. This appointment is for a one-year period with reconfirmation by the Committee Chair at the end of the first year. Customarily a second term is automatic. A deputy Chair may not succeed himself. Except in special cases, the deputy should not be from the same company or organization as the Chair.

n. The Deputy Directors are appointed by the Technical Director for a period of one year, with a second term customarily automatic. It is preferable that the Deputy Directors previously serve as Chair or deputy Chair of one of the committees.

**Subcommittees**

a. With the concurrence of the Deputy Directors, permanent or ad hoc subcommittees may be formed, on request or as directed.

b. The subcommittee Chair is appointed by the committee Chair with the prior approval of the Deputy Director. The subcommittee Chair reports to the committee Chair. Matters of policy will be cleared with the Deputy Director and the Technical Director prior to action.

c. A Chair of a committee may not be a member of the subcommittee.

d. A subcommittee Chair must be a member of the committee.
e. Other subcommittee members are not required to be members of the committee, but should be encouraged to be AHS members.

Special Projects

Technical committees may sponsor special projects upon request of the Technical Director, or the Deputy Director, or on their own initiative. All policy items or projects affecting more than the specific committee (e.g., interrelation to committees, publications, etc.) must be cleared with the Technical Director prior to initiation. Section I, paragraph 10, provides guidance on participation on ad hoc studies including standards requiring dissemination of an AHS publication.

Principal Tasks

The following guidelines should not be seen as the only tasks. New initiatives are encouraged.

a. Deputy Director(s) – Technical

(1) Initiate and guide the yearly changeover to the new committees and organize a yearly meeting of the Technical Committee Chairs (old and new). Include the Technical Director, and the Editor of the Journal where possible during the Annual Forum, at which time the changeover into the new committees takes place.

(2) Maintain a log of papers presented at technical meetings and their status with respect to evaluation by the technical committees. Integrate this log with the Journal Editor’s log and provide these to the committee Chair.

(3) Collect and prepare status reports concerning the committees and the subcommittees for the Technical Director.

(4) At the election of the incoming President of the Society, and no later than the end of the Technical Director’s term, the Deputy Technical Directors will form an ad hoc committee to solicit nominations for candidate successors to Deputy Technical Directors with the approval of the Technical Council. These candidates will be submitted to the incoming President for his selection.

b. Committee Chairs

(1) Select each year, new committee members, according to the guidelines. Approval is required from the Deputy Technical Director.

(2) Appoint a Session Chair each year with the responsibility for organizing a session at the yearly AHS Annual Forum, in coordination with the Forum Technical Chair.

(3) Appoint an assessment subcommittee of committee members, and a Chair with responsibility for assessing the technical quality of the paper presentations at the Annual Forum. Guidelines for this evaluation are provided by the Forum Technical Chair. The subcommittee’s recommendations will allow recognition to be given to the leading presenters. All presenters will receive feedback on the assessment of their papers.

(4) Evaluate, with the help of his or her committee, the papers presented at technical meetings which may be appropriate for publication in the AHS Journal.

(5) Ensure that the interests of the committee are represented when related regional Specialists’ meetings are being planned. A committee member should be assigned to work actively with the organizing committee of the Specialists’ meeting.

(6) Maintain contact with appropriate Associate Editors of the Journal to insure that committee members are involved. Supporting the process of manuscript review should be evenly distributed within the committee.

(7) At the end of the committee Chair’s term, propose to the Deputy Director at least two (2) candidate successors to the Committee Chair’s position.

c. Deputy Technical Chair

(1) Assist the Chair and assume his or her tasks if they are temporarily unavailable.

(2) Assume responsibility of a Forum session at the request of the Chair.
d. **Members**

(1) Find new papers

(2) Evaluate the technical papers under the direction of the Chair to determine whether they might be appropriate for publication in the *Journal*.

(3) Review manuscripts for the *Journal* as requested by Associate Editors of the *Journal*.

(4) Assume tasks to assist the Chairs in their work, including the organization of a Forum session.

**SECTION III**

**Annual Checklist – Technical Director**

**Incoming Technical Director**

**March:**
Incoming Technical Director should be selected and advised.

**April:**
Incoming Technical Director must appoint Journal Editor, Forum Chair and Technical Council for the following year.

**May:**
Technical Director attends the Board of Directors meeting. As incoming Technical Director he or she is a non-voting attendee. He or she will also attend the last meeting of the outgoing/incoming Technical Council. He or she takes over at the conclusion of this meeting. He or she also should attend committee chair meetings.

**Technical Director**

Following Technical Council meeting, minutes should be distributed and a tickler established on follow-up actions.

Remind Regional VP’s and Committee Chairs of procedures for submitting Specialists’ Meeting proposals.

**August:**
Check on items that need to be brought before the Board in October.

**September:**
Forward input on the above to AHS for inclusion in Board Book report. Write to regional Vice Presidents reminding them of Lichten Award procedures. Review Nikolsky Nominations as member of the Awards Committee.

**October:**
Attend Board Meeting.

**December:**
Review open items for Executive Committee Meeting (EXCOM) in January. Reminder to Technical Council to consider their nomination for AHS Annual Awards.

**January:**
Attend EXCOM.
Reminder to Regional VP’s on Lichten deadlines.

**February:**
Review nominations for AHS awards as member of the Awards Committee.

**March:**
Lichten Award nominations due to Technical Director by March 1. Selection of finalists by March 25.

**April:**

**May:**
Attend Board Meeting.
Chair Technical Council Meeting at Forum.

**Annual Checklist – Deputy Technical Directors**

**May:**
- Acknowledge new Committee Chairs.
- Acknowledge new Committee Members
- Advise AHS of updated Technical Committee listings
- Thank retiring Committee Chairs.
- Distribute minutes of Technical Council Meeting.

**December:**
- Solicit candidates for new Technical Director from Technical Council members and Committee Chairs.
- Send recommended names to incoming AHS President.

**January:**
- Request recommendations for new Committee Chairs. Confirm those that will retain their position for the next year.

**April:**
- Distribute agenda for annual Technical Committee Chair/Session Chair Meeting at Forum.
- Draft revisions to the Guidelines, with the Technical Director for presentation at May meeting of Technical Council.

**As Required:**
- Provide guidelines to Committee Chairs.

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**Table II**

<table>
<thead>
<tr>
<th>Position</th>
<th>Tenure</th>
<th>How Appointed</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technical Director</strong></td>
<td>2 years</td>
<td>Appointed by President from candidates proposed by Technical Council</td>
<td>Bylaws &amp; Guidelines Sect III, Para 7.a. (4)</td>
</tr>
<tr>
<td><strong>Journal Editor</strong></td>
<td>3 years</td>
<td>Appointed by Technical Director</td>
<td>Sect. I, Para 6</td>
</tr>
<tr>
<td><strong>Deputy Director</strong></td>
<td>1-2 years</td>
<td>Appointed by Technical Director</td>
<td>Guidelines Sect. I Para 7, Sect II Para 4.n.</td>
</tr>
<tr>
<td><strong>Committee Chairs</strong></td>
<td>1-2 years</td>
<td>Appointed by Deputy Director from 2 proposed by retiring Chair</td>
<td>Guidelines Sect. II Para 4.j.</td>
</tr>
<tr>
<td><strong>Committee Member</strong></td>
<td>2 years</td>
<td>Appointed by Committee Chair with concurrence of Deputy</td>
<td>Guidelines Sect. II Para 4.e.</td>
</tr>
<tr>
<td><strong>Tech Session Chair</strong></td>
<td>1 year</td>
<td>Appointed by Tech Committee Chair</td>
<td>Guideline Sect. II Para 4.1</td>
</tr>
<tr>
<td><strong>Forum Tech Chair</strong></td>
<td>1 year</td>
<td>Appointed by Technical Director</td>
<td>Guideline Sect. I Para 8</td>
</tr>
<tr>
<td><strong>Tech Council Members</strong></td>
<td>1 year</td>
<td>Appointed by Technical Director</td>
<td>Guideline Sect. I Para 5</td>
</tr>
<tr>
<td><strong>Subcommittees</strong></td>
<td>1 year</td>
<td>Proposed by anyone. Approved by Tech Director. Ratified by Board.</td>
<td>Guideline Sect. II Para 5.a.</td>
</tr>
<tr>
<td><strong>Subcommittee Chair</strong></td>
<td>1 year</td>
<td>Appointed by Committee Chairmen</td>
<td>Guideline Sect. II Para 5.e.</td>
</tr>
<tr>
<td><strong>Subcommittee Members</strong></td>
<td>1 year</td>
<td>Appointed by Committee or subcommittee Chairman</td>
<td>None</td>
</tr>
<tr>
<td>PORTION</td>
<td>MAINTAINED &amp; REVISED BY</td>
<td>DISTRIBUTED TO</td>
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<tr>
<td>Guidelines, Sect. I</td>
<td>Technical Director</td>
<td>Technical Director&lt;br&gt;Forum Tech. Chairman&lt;br&gt;Journal Editor&lt;br&gt;Technical Council&lt;br&gt;Committee Chairmen&lt;br&gt;Committee Members</td>
<td></td>
</tr>
<tr>
<td>Guidelines, Sect. II</td>
<td>Deputy Technical Directors</td>
<td>As Section I</td>
<td></td>
</tr>
<tr>
<td>Guidelines, Sect. III</td>
<td>Technical Director&lt;br&gt;Deputy Tech Director&lt;br&gt;Technical Director&lt;br&gt;Technical Director&lt;br&gt;Technical Director&lt;br&gt;Journal Editor&lt;br&gt;Journal Editor&lt;br&gt;Forum Technical Chair&lt;br&gt;Forum Technical Chair&lt;br&gt;Technical Chairmen&lt;br&gt;Technical Chairmen&lt;br&gt;Executive Director</td>
<td>Incoming Tech. Director&lt;br&gt;Incoming Deputy Dir.&lt;br&gt;Committee Chairmen&lt;br&gt;Regional VP’s&lt;br&gt;Specialists’ Mtg. Chairs&lt;br&gt;Incoming Journal Editor&lt;br&gt;As Sect. I plus Authors&lt;br&gt;Incoming Forum Chair&lt;br&gt;All Authors &amp; Speakers for&lt;br&gt;Forum &amp; Spec. Mtgs.&lt;br&gt;Regional VP’s&lt;br&gt;Awards Committee&lt;br&gt;As Sect. I</td>
<td></td>
</tr>
<tr>
<td>Guidelines, Sect. IV</td>
<td>Technical Director</td>
<td>Technical Director&lt;br&gt;Deputy Technical Director&lt;br&gt;Forum Tech. Chairman&lt;br&gt;Specialists Mtg. Chairman</td>
<td></td>
</tr>
</tbody>
</table>
The Technical Committees and their areas of primary responsibility are given below in the charters attached herein.

**Acoustics Technical Committee [Draft Bylaws (2/1/99)]**

The balance of the committee should include representation from each of the helicopter companies, with equal (or more) representation from government, an equal (or less) representation from academia, specialized support and consulting industry.

Terms are three years for membership. One’s membership starts a year before the first meeting attended and ends after the third meeting attended. (I initiated the early membership startup in order to cover the responsibilities such as the *Vertiflite* article submissions from the companies in years where memberships change.)

For the helicopter industry (4 - 6 representatives traditionally) and government members (4 total) NASA and Army reps. from each coast, 1 (FAA/CAA), the outgoing members nominate a successor from its organization (this choice is generally rubber stamped by the committee).

For academia and non-helicopter companies, no permanent status to a university or company is given. Nominations are to be equally open to all members. Membership balance with regard to regional and expertise must be considered. I recommend having up to four members from academia. Two (in total) representatives from specialist and/or research companies would appear balanced.

Terms for chair and deputy chair are two years each. Actually, this is ½ meeting, one full meeting and ½ meeting (three meeting attended).

These terms supersede and, thus, may add to whatever term existed or was remaining prior to selection to office.

The leadership posts are traditionally held alternately by representatives from the US helicopter industry and US government (normally NASA and ARMY) on an alternating basis with consideration given to regional balance. (In practice, to keep this balance, the existing Chair and Deputy Chair nominates the new Deputy Chair. The committee normally rubber-stamps this nomination).

- Normal progression is to step from Deputy Chair to the Chair post.
- Duties for the membership include, among others:
  - The Acoustics Session (and Aeroacoustics Session if needed) Chairship is determined by vote. Nominees are generally volunteers. It is traditional for the Deputy Chair to start his term with session chair duty.
- The Chair nominates the Committee Chair. The committee normally rubber-stamps this nomination.

The Editor of *Vertiflite* article on Acoustic Highlights is determined by vote. Nominees are generally volunteers.

Committee minutes are taken by the Deputy Chair or designated person by the Chair.

Best Paper Award selection process is done by Deputy Chair or designated person by the Chair.

**Acoustics Technical Committee Charter—Drafted 4/98**

1. Organize and conduct the Acoustics and Aeroacoustics Sessions at the AHS Forum
2. Promote and conduct technical specialists’ meetings and workshops in the area of acoustics
3. Support the Journal to AHS in the area of acoustics
4. Encourage rotorcraft acoustic programs and establish communications of activities in government, industry, and academia
5. Promote membership affiliation and communication with other professional societies
6. Conduct evaluations and develop recommendations on contemporary special topic acoustic areas by the committee or by subcommittees, as appropriate.

**Advanced Vertical Flight Technical Committee—Drafted 5/15/06**

To broaden the vertical flight technology base with emphasis on VSTOL concepts beyond the conventional rotorcraft area, to include rotorcraft concepts such as the tilt wing, stopped rotor and canard rotor wing systems; and non-rotorcraft concepts such as fan-in-wing, lift engines, thrust augmentation devices, lift fans, lift or lift/cruise vectoring nozzles, and attitude (reaction) control systems. The committee will concentrate on requirements, related emerging and enabling technologies, design, systems integration, testing, operation, and maintenance of such aircraft. The committee will support technical sessions at the AHS Annual Forum and technical specialists’ meetings, promote educational awareness of VSTOL flight, and encourage nominations for the Paul E. Haueter Award.

The Aerodynamics Technical Committee of the American Helicopter Society is committed to promoting the broadest dissemination of technical studies that expand the understanding of rotary wing and Vertical/Short Take Off and landing aircraft aerodynamics.

The Committee will accomplish this mission through the conduct of high quality technical sessions held at the AHS Annual Forum, candid dialogue among members at the Committee annual meeting, support of technical specialists’ meetings held by regional chapters, contributions to Vertiflite articles, editing and review assistance for AHS Journal articles, and active participation on Integrated Technology Teams.

The Committee shall maintain a strong technical organization with a membership representative of the AHS, provide a forum for discussion of issues affecting the AHS and keep adequate historical records. The Committee shall work effectively with the AHS leadership and other AHS committees to foster a strong technical society, and the will interact with other professional societies as appropriate to advocate the advancement of aerodynamics.

Susan A. Gorton
Chair, AHS Aerodynamics Technical Committee
NASA Langley Research Center
Mail Stop 286
Hampton, VA 23681-2199

Aircraft Design Technical Committee [Based on material from AHS Officer Guide, and recent committee practice.]

Purpose of Aircraft Design Technical Committee:

The Aircraft Design Technical Committee’s areas of primary responsibility are to coordinate AHS activities on (a) overall vertical lift aircraft, subsystem, and component designs; b) design technology, design criteria and design synthesis; and (c) interdisciplinary design considerations including aeromechanics, structural mechanics, reliability, and safety considerations.

Additionally, the committees should maintain a strong technical organization, providing a training ground for new Society leaders in their respective fields, and maintain adequate historical records.

a. Provide AHS membership with timely, high-quality, Vertical Lift Aircraft Design Technical information (herein called “Design”). The dissemination of this information is accomplished through the AHS-sponsored technical meetings including the Annual Forum and the regional Specialists’ meetings. The committees:
   - Solicit, evaluate, and select relevant and high quality papers
   - Assess the technical quality of “Design” presentations at the Annual Forum, and nominate an author(s) for “Best of Design” presentation
   - Support the Journal Editor in the selection process for publication of “Design” papers.

b. Offer a center for communication among the various industry, academia, and government agencies interested in the various aspects of “Design” technical information.

c. Encourage the use of the AHS as a medium by which the members can and should publish their “Design” findings.

d. Establish the AHS as an organization to which the government, industry, and the general public can look for assistance, direction, and leadership with respect to vertical flight aircraft design.

Committee Structure:

The committee (and the society as a whole) operates through the dedication of a few volunteers, who see the educational and societal value of contributing to our technical society. An annual committee meeting is generally held in conjunction with the society’s annual Forum, and included membership activities as such:

Welcoming of any new, interested members (typically invited by an outgoing member).
Solicitations for officer volunteers, and voting for confirmation

a. The number of regular committee members, including the Chair, should be no less than seven, and generally no more than fifteen.
b. Committee members must be active, respected practitioners in the field of the Committee. Membership should be sought primarily to represent all facets of the field, and also to achieve a balanced representation of major organizations.

c. A person should serve on only one AHS technical committee at a time. Commitment must be obtained from the member and their supporting organization that he or she will be able to attend one committee meeting per year.

d. All committee members must be members of the Society. A non-member may be proposed for the committee appointment, but it must be understood that he or she will join the Society upon accepting the appointment.

e. Membership is for two years minimum, with continuance based on interest level, contribution to the committee, and consistent effort to attend annual meetings.

f. It is intended that make-up of the committee will include 60% "old" members (those with greater than two years of service) and 40% "new."

g. In addition to the regular members, a maximum of three honorary technical members for each committee may be appointed for a period of six years by the Chair. Prior approval of the Technical Director is required. No more than one appointment per Technical Director is required. No more than one appointment per year may be made for each committee. Honorary members have full membership privileges and responsibilities on the committee, but may not serve as Chair.

h. Retiring Chairs should not serve on the same committee immediately after their term of office except in an ex-officio capacity. After two years absence from the committee, they may again serve on the committee. To provide historical continuity, a committee Chair may elect to request one or two past Chairs to serve in ex-officio capacity.

i. The Chair should provide for a logical successor, preferably an experienced committee member, by making sure that at least one qualified member is available and willing to serve.

j. The committee elects the officers, with the Chair being approved by the Technical Director or the Deputy Director. To avoid concentration of committee Chairs within one company or area, successive chairs should not be from the same organization.

k. The committee Chair is elected for a one-year period with the reconfirmation by the committee and the Deputy Director at the end of the first year. Customarily a second term has been automatic.

Officers:

a. Committee Chair
The Committee Chair organizes and leads the annual meeting. That responsibility includes requesting the meeting time (via coordination with AHS headquarters), and inviting members.
(1) Responsible for coordination of assessing the technical quality of the paper presentation at the Annual Forum. Guidelines for this evaluation are provided by the Forum Technical Chair. The Committee Chair is to appoint at least 5 committee members to review the forum papers and provide an evaluation and ranking. The recommendations will allow recognition to be given to the leading presenters, including nomination(s) as "Best Design", and letter of Thanks. All presenters will receive feedback on the assessment of their papers.
(2) Ensure that the interests of the committee are represented when a Design-related regional Specialists’ meetings is being planned. If requested, a committee member should be solicited and assigned to work actively with the organizing committee of the Specialists’ meeting.
(3) At the end of the Committee Chair’s term, propose to the Deputy Director a candidate successor to the Committee Chair’s position.

b. Deputy Chair
Responsible for taking over the Committee Chair’s role and coordination of the AHS Journal “Design” publications.
(1) Evaluate, with the help of the committee, the papers presented at the technical meetings which may be appropriate for publication in the AHS Journal.
(2) Maintain contact with the appropriate Associate Editor of the Journal to insure that the committee members are involved and supporting the process of manuscript review for the Journal. The workload associated with the manuscript review should be distributed within the committee.

c. Secretary
Publish minutes from Committee meetings.
Maintain and publish committee officers and members address list.

d. Forum Session Chair
Prime committee contact for Forum Aircraft Design Session(s). Roles include: modify Call for Papers, if a theme is desired; solicit papers, manage review of abstracts with their Committee members, contact authors, organize presentation session(s), and conduct session(s).
(1) Responsible for organizing the design session(s) at the yearly AHS Annual Forum, in coordination with the Forum Technical Chair. A Deputy Session Chair is normally elected/appointed, to assist the Session Chair when there are two Design Technical Sessions planned for the upcoming AHS Forum.
e. Highlights Editor
Solicit “Design” highlights from members’ organizations for yearly Vertiflite Highlights publication. Coordinate with AHS headquarters, and organize/edit information into desired publishing form, as requested.

f. European Coordinator
Encourage participation of European rotorcraft organizations in the AHS, particularly on Vertical Lift Aircraft Design areas. Personally solicit papers for the AHS Forum Aircraft Design Session from Design Managers of the major European manufacturers (Westland, Eurocopter, Augusta, etc.) as well as key personnel at R&D labs such as ONERA, DLR, and DERA.

g. Student Design Competition Coordinator (new)
The position should rotate with sponsoring company. (The historic order of sponsoring companies has been The Boeing Co, Bell Helicopter Textron, Sikorsky Aircraft Corp., Eurocopter, and AgustaWestland)
Solicit participation in the competition from ALL universities having faculty and students involved in helicopters. (List includes: Georgia Tech., Penn State, Naval Postgrad., RPI, MIT, University of Maryland, Purdue, Arizona State, UCLA, Technion (Israel). Many of these schools have historically strong programs in helicopters, but have never participated in the competition. Efforts should be made to draw them in).
Coordinate with the AHS Education Committee, the Student Design Competition RFP and judging of proposals. Effort should be made to work with the Education Committee to include suggestions to modify the competition in order to enhance the educational value.
Coordinate with the sponsoring company to provide prize awards/money.

Avionics and Systems Technical Committee [Draft Charter and Mission Statement, AHS Forum 55.]

Avionics and systems enable aircrews to fly helicopters and VTOL aircraft and perform mission functions effectively. These roles are becoming more complex as military missions are increasingly requiring these aircraft to be interconnected within the digital battle space. This interconnectivity is increasing by orders of magnitude, amounts of information and data to be processed and absorbed by the crews. Fortunately, avionics and systems capabilities are also increasing at a phenomenal rate to allow aircrews to cope with increasing workload and mission demands. The primary challenge is to provide increasing capabilities at affordable cost and to reduce operating and support cost of fielded systems.

This technical committee shall strive to further the state-of-the art in avionics and systems by keeping pace with the needs of helicopters and VTOL aircraft aircrews. Areas addressed will include activities associated with the design, development, test, and use of avionics and systems to support basic flight management and the various missions of our unique vertical flight aircraft. Areas addressed will also include cost reduction, use of commercial off the shelf solutions, and specific mission system solutions for both commercial and military use, operational needs and experience, night and adverse weather requirements, and advanced systems. These activities shall be accomplished through high quality technical sessions held at the AHS annual forums, technical specialists’ meeting arranged with regional chapters, and soliciting technical papers and activity summaries for publication in the AHS Journal and Vertiflite publications.

The avionics and systems technical committee shall maintain a strong technical organization of avionics specialists from equipment suppliers, system integrators, aircraft prime contractors, and both domestic and foreign commercial military users. This committee shall provide training for new society leaders and maintain historical records. The avionics and systems technical committee shall interact effectively with other technical committees within the AHS. The committee shall also coordinate and serve as a link between the AHS and other professional societies as needed.

Cecil Richardson
Chair, Avionics and Systems Technical Committee

Crew Stations and Human Factors

Charter: This Technical Committee will serve as the focal point for Crew Stations and Human Factors related to technical activity within the American Helicopter Society. The Committee will provide a channel for the collection and distribution of technical information, and it will help to focus industry and Government interests in crew station and human factors technical areas. The Committee will produce a technical session at the annual AHS Forum, promote Specialists’ Meetings, encourage the use of AHS publishing media, and establish the AHS as a provider of technical expertise and leadership to the rotorcraft community and related technical organizations. The Committee will serve as a source of technical information for existing rotorcraft operational environments, human interface technologies and issues that impact human performance and mission success, and associated design analysis tools and methods.

Dynamics Technical Committee
Mission: Foster, promote, and enhance technical excellence in the rotorcraft dynamics community, dissemination of information, and advancement in rotorcraft dynamics research and development that lead to advanced analytical modeling, design, structural control, and experimental methodologies; Improvements in rotorcraft dynamics attributes, longer life, and/or lower weight and cost rotorcraft; Increased rotorcraft capabilities and commercial operator and passenger acceptance; and expanded rotorcraft applications and markets.

Charter: Focus on the following technical areas, rotorcraft attributes, capabilities, and competencies:
- Structural dynamics, rotor dynamics, and aeroelasticity
- Aeromechanical stability and vibration
- Physical, computational, and empirical modeling and analysis
- Experimental data acquisition, signal processing, system ID and validation
- Structural transfer path analysis
- Structural and aeroelastic design optimization
- Active/passive structural isolation and vibration suppression
- Active structural and rotor control solutions

Sustain a diverse Committee membership, including representatives of industry, government and academia;

Establish and maintain an international presence on the Committee;

Organize and conduct relevant and timely technical specialists' meetings and workshops with a minimum schedule of
  Aeromechanics Specialists' Meeting every four years starting in 2000
  Dynamics Specialists' Meeting every four years starting in 2002

Promote and conduct collaborative research programs and multi-year workshops (e.g. Rotor Vibratory Loads Prediction);

Promote, establish, and maintain public domain databases, including a Dynamics Committee web page;

Establish and sustain communications and coordinated activities with other Technical Committees as appropriate;

Promote multi-disciplinary and systems level perspectives;

Promote membership affiliation and communication with other professional societies;

Conduct evaluations and develop recommendations on contemporary special topics in dynamic and aeroelasticity by the committee or by subcommittees, as appropriate;

**Dynamics Technical Committee By-Laws**

Committee Membership and Term Durations:

The balance of the committee should include representation from each of the US helicopter companies (3-4 representatives traditionally) with similar representation from government, similar representation from academia, limited representation (at least one) from specialized support and consulting industry, and representation from Europe and Asia. Total membership, including Chairperson and Honorary members should not exceed 18, including 3-4 from US helicopter industry, 3-4 from government labs, 3-4 from academia, 1-2 from specialized support and consulting industry, 1-3 from Europe and Asia, and 1-2 honorary members. Membership balance with regard to region, expertise, and member organizations should be considered.

Terms for Chairperson and Deputy Chairperson are two years each. These terms supersede and, thus, may add to whatever term existed or was remaining prior to selection to office.

The leadership posts are traditionally held alternately by representatives from helicopter industry and government on an alternating basis with consideration given to regional balance.

The existing Chair and Deputy Chair nominate the new Deputy Chair, which is accepted by vote of the full Committee.

Normal progression is to step from Deputy Chair to Chair post (note implied four year commitment by individual and organization).

Terms for members are three years. Membership starts a year before the first meeting attended and ends after the third meeting attended. Other duties may require extension of terms, but should not exceed four years, unless duties as Chairperson and/or Deputy Chairperson are assumed. Periodic turnover is seen as healthy for the committee because it
brings new ideas and energy into the Committee and encourages participation in AHS activities by a larger segment of the dynamics community.

For the helicopter industry and government members, the outgoing members nominate a successor from its organization. Nominations are accepted without vote.

For academia and non-helicopter companies, no permanent status is given to a university or company. Nominations are to be equally open to all members. Traditionally, NRTC Rotorcraft centers of Excellence have had representation. New members are nominated by individual Committee members and accepted by vote of full Committee.

Terms for Session Chairperson and Co-Chairpersons are one year.

Session Chairpersons volunteer and/or nominated by Committee Chairperson and accepted by vote of full Committee.

Desirable for Session Co-Chairperson to become Session Chairperson in following year.

Roles and Responsibilities:

Chairperson:
- Maintain Committee mission statement, charter, bylaws, membership records, and calendar
- Maintain current list of Committee members and addresses
- Maintain database of Committee member’s self-described background and expertise for reference by AHS Journal Dynamics Associate Editors in selecting paper coordinators and reviewers
- Communicate with Committee members as needed
- Nominate Deputy Chairperson
- Solicit volunteers and/or nominate Session Chairperson(s)
- Solicit nominations for academia and non-helicopter organizations
- Prepare for and conduct Committee meetings
- Send out Committee meeting announcements
- Prepare Committee meeting agenda(s)
- Release Committee meeting minutes
- Participate on Sub-committee for Best Paper Review
- Communicate Best Paper and presentation results to AHS Technical Council and Committee members
- Arrange for plaque(s) to be presented for Best Paper and presentation at Annual Forum
- Communicate results of Journal Quality recommendations to AHS Journal Dynamics Associate Editors
- Provide results of presentation Quality review to Presenters at AHS Forum and Committee members
- Write yearly *Vertiflite* Highlights article on the basis of Committee input
- Maintain contact with the Technical Director of AHS and members of the Technical Council
- Prepare semi-annual Committee reports and communicate to Technical Council
- Represent the Committee in AHS planning processes as required
- Coordinate with other Technical Committees as required
- All other responsibilities of regular members

Deputy Chairperson:
- Take and document Committee meeting minutes
- Assist Chairperson as needed with *Vertiflite* Highlights article
- Assist Chairperson in representing the Committee in AHS planning processes as required
- Assist Chairperson in nominating new Deputy Chairperson
- Participate on Sub-Committee for Best Paper Review
- All other responsibilities of regular members

Session Chairperson:
- Revise Call for Papers for Annual Forum
- Gather Forum paper abstracts, coordinate with other Technical Committee Session Chairpersons to categorize papers and distribute abstracts to the Committee for evaluation
- Select papers based on Committee abstract review and inform authors of selection
- Organize Dynamics session(s) with Co-Chairpersons
- Monitor progress in paper presentation
- Coordinate with AHS HQ for correct Forum agenda
- Forward written copies of Forum papers to Sub-committee for Best Paper review
- Lead Best Paper review Sub-committee and communicate results to Committee Chairperson
- Chair one session at the AHS Forum
All other responsibilities of regular members

Session Co-Chairperson(s):
Assist, as needed, Session Chairperson with Call for Papers, assessment of abstracts, organization of Dynamics Sessions, and monitoring of papers
Participate on Best Paper review Sub-committee
Chair session at the AHS Forum
All other responsibilities of regular members

Members:
Participate in at least one Committee meeting at Annual Forum (a representative should be sent when direct participation is not possible; non-participating members can have their membership revoked by a review of a subcommittee formed by the Chairperson)
Assist with the evaluation of Forum abstracts
Assist with the evaluation of presentation quality of presenters in Dynamics Session at AHS Forum
Assist with the evaluation of AHS Forum dynamic papers for recommendation for publication in the AHS Journal
Assist with the evaluation of the technical papers for the Best Paper recommendation (one or volunteers are desired for participation on review sub-committee)
Assist the Associate Dynamics Editors of the AHS Journal as requested in reviewing and coordinating papers submitted for the publication
Submit to the Chairperson yearly inputs for the Vertiflite Highlight article
Participate in Committee Specialists’ meetings, workshops, and other activities
Accept and carry out action items assigned, as appropriate, during Committee meetings
Participate in the nomination and selection of new members of the Committee

Dynamics Technical Committee Charter
Mission: To foster, promote and enhance technical excellence in the rotorcraft dynamics community, dissemination of information, and advancements in rotorcraft dynamics R&D that lead to: advanced analytical modeling, design, structural control, and experimental methodologies; improvement in rotorcraft dynamic attributes, longer life, and/or lower weight and cost rotorcraft; increased rotorcraft capabilities and commercial operator and passenger acceptance; and expanded rotorcraft applications and markets.

Technical Focus, Capabilities, and Competencies:
Structural dynamics, rotor dynamics, and aeroelasticity
Aeromechanical stability and vibration
Physical, computational, and empirical modeling and analysis
Experimental data acquisition, signal processing, system ID and validation
Structural and aeroelastic design optimization
Active/passive structural isolation and vibration suppression
Active structural and rotor control solutions

Charter:
Sustain a diverse T/C membership
Organize high quality Dynamics Sessions
Provide feedback to presenters at AHS Forum
Support the AHS Journal review process to ensure technical excellence
Promote and conduct relevant and timely technical specialists’ meeting and workshops
Aeromechanics every 4 years starting in 2000
Dynamics every 4 years starting in 2002
Establish and maintain public domain databases, including a Dynamics Committee web page
Communicate international activities in industry, government, and academia
Promote multi-disciplinary and systems perspectives
Promote communication with other T/Cs and other professional societies

Handling Qualities Technical Committee Charter
Handling qualities encompass aircraft characteristics which govern the ease and precision with which a pilot is able to perform tasks in support of an aircraft mission. This includes basic vehicle stability and control/response characteristics and the pilot-cockpit vehicle interface.
The handling qualities technical committee shall strive to advance the state-of-the-art in various technical areas including applications of mathematical modeling to rotorcraft component integration, operational needs and experience, night and adverse weather requirements, and development of advanced flight control systems. These activities shall be accomplished through high quality technical sessions held at the AHS annual forums, technical specialists’ meetings arranged with regional chapters, and soliciting technical papers and activity summaries for publications in the Journal and Vertiflite.

Additionally, the handling qualities technical committee shall maintain a strong technical organization, providing a training ground for new society leaders and maintain adequate historical records. The handling qualities technical committee shall interact effectively with other technical committees with in the AHS. The committee shall also coordinate and serve as a link between the AHS and other professional societies as needed.

Dr. P. Shanthakumaran
Chair, AHS HQ Technical Committee

**History Technical Committee Charter**

The purpose of the History Committee is to facilitate the preservation and understanding of vertical flight history. Specifically, the Committee will endeavor:

- To assemble a group of specialists in the technologies related to the technical history of gyroplanes, helicopters, and other vertical flight aircraft, and provide a focal point for the Society on vertical flight history.
- To facilitate the identification, preservation, and dissemination of key technical historical documents of benefit to the Society and to the community at large.
- To formally solicit papers on the history of vertical flight and have them presented at the Forum, building a unique historical archive on vertical lift aircraft.
- To foster, promote and enhance the understanding of the technical history of vertical flight in the Society and between the various technical disciplines.
- To advise and help manage the dissemination of historical information regarding the history of vertical flight technology.

Committee Structure:

- The committee shall meet at least once each year, at the annual Forum, and include such activities as:
  - welcome any new and/or interested members
  - solicit officer volunteers and vote for confirmation
  - discuss progress toward meeting overall Committee goals
  - discuss progress toward achieving specific Committee projects
  - discuss potential new projects
  - discuss and vote on matters of emphasis for the Committee
  - discuss and vote on areas of application of financial resources
- The Committee will consist of at least 7 regular committee members, with no more than 15.
- The Committee will seek members who represent all facets of the field, with representation from the major industry, government, and academic organizations.
- All Committee members must be members of the Society. A member should serve on only one committee at a time.
- Committee members must actively participate in the committee business. Commitment must be obtained from the member and, where applicable, their supporting organization, to actively participate on the Committee and attend the annual Forum if at all possible.
- Membership is for a minimum of two years, with continuance based on interest level, contribution to the committee, and consistent effort to attend meetings.
- The committee elects the officers, with the Chair being approved by the Technical Director or the Deputy Director. The committee Chair is elected for a one-year period, with reconfirmation by the committee and the Technical Director or the Deputy Director. Typically, the renewal for a second term will be automatic, unless the Chair elects to step down.
- The Committee officers will be led by the following officer positions:
  - The Committee Chair, responsible for: organizing and leading the annual meeting, coordination of assessing the technical quality of the History Session papers at the annual Forum, and, at the end of the committee Chair’s term, propose to the Deputy Director a candidate successor to the Committee Chair’s position.
  - The Deputy Chair, responsible for: taking over the Committee Chair’s role if necessary and support the Chair in planning and execution of the Committee responsibilities and activities.
The Secretary, responsible for: recording and publishing meeting minutes in a timely manner; maintain and public committee officers and member’s contact information.

The Forum Session Chair, responsible for: serving as the primary committee contact for the Forum History Session(s). Roles include drafting the Call for Papers, solicit papers, manage review of abstracts with the committee members, contact authors, organize presentation session(s) and conduct session(s).

- The Committee will appoint such sub-committee members as required for specific projects.

Manufacturing Technology and Processing Charter

- Sustain a diverse Committee membership with balanced representation of industry, government, and academia.
- Organize and conduct high-quality Manufacturing Technology and Processing Sessions at the annual AHS forums
- Support the AHS Journal review process to ensure technical excellence in Manufacturing Technology and Processing areas
- Promote and conduct relevant and timely technical specialists’ meetings and workshops
- Promote and conduct collaborative research programs and multi-year workshops
- Promote and sustain communication and coordinated activities with other Technical Committees as appropriate
- Promote membership affiliation and communication with other professional societies

Modeling and Simulation Technical Committee Charter

Mission Statement: The Modeling and Simulation Committee provides focus on the use of virtual and constructive simulation in support of rotorcraft engineering design, test and evaluation, military doctrine development and aircrew training. The primary orientation of the committee is toward effective scientific and engineering application of these simulation types as opposed to facilities, per se.

Today, simulations can be presented in a virtual reality environment, on motion platforms, desktop workstations, or in portable containers and can be networked interactively with other simulations and live events. State-of-the-art computers are capable of simulating aircraft components, sensors and systems to a high level of fidelity. They can provide realistic out-the-window and sensor imagery. Sophisticated algorithms can be incorporated to simulate operational conditions that pilots and crew might encounter. Simulation applications in the areas of handling qualities, flight controls, pilot vehicle interface, armament, crew training, operations analysis, and the development of tactics, techniques and procedures for military operations are becoming routine as a part of design and development.

The Modeling and Simulation technical committee shall strive to provide a forum for the continued use of simulation in the aircraft life cycle and to allow a means of demonstrating its application in reducing the cost of design and development.

The activities of the Modeling and Simulation Committee shall be accomplished by conducting high quality technical sessions at the AHS annual forums and technical specialists’ meetings. The committee shall solicit its membership from a broad base of simulation users/developers in both the military and industry. The committee shall hold, at least annually, a membership meeting to review yearly accomplishments and discuss future application of simulation in reducing rotorcraft development costs. The committee shall interact effectively with other technical committees within the AHS in order to understand the needs of these other technical disciplines and define potential areas for future simulation application. The committee shall also coordinate and serve as a link between the AHS and other professional societies.

Irv Alansky
Chair, AHS Flight Simulation Technical Committee

Operations Technical Committee Charter

The Operations Committee will serve as the American Helicopter Society focal point for addressing manned and unmanned applications of rotorcraft and powered lift aircraft in military, civil and paramilitary operations. The Committee will provide a channel for the collection and distribution of operational and technical information and will help focus industry and Government modeling, simulation, and technological solutions, including promising emerging technologies, to operational challenges in mission areas to include attack/assault, reconnaissance, command and control, vertical employment, anti-submarine warfare, heavy lift, search and rescue, offshore oil support, aircraft medical services, scheduled passenger transport, aerial application, human external cargo, law enforcement, and electronic news gathering. The committee will conduct a technical session at the annual AHS forum, promote Specialists’ Meetings, encourage the use of AHS publishing media, and establish the AHS as the provider of technical expertise and leadership to the rotorcraft community and related technical organizations. The committee will serve as a forum for modeling,
simulation, and technical information for rotorcraft operational and technological solutions in the following areas: concepts of operations, tactics/techniques, tools/technologies and methodologies, rotorcraft survivability/vulnerability analysis, electronic decision aiding to operations, command/control/communications techniques, intelligence/data gathering applications, manned and unmanned teaming applications, supportability techniques, and extreme weather operations techniques. The committee shall solicit its membership from a broad base of users and developers from the military, government, and industry.

**Product Support Committee Charter**

To influence the industry to implement product support enhancements, by recognizing the diversity of requirements in new and existing fleets.

The Committee will promote compatible design concepts that will contribute to the operators’ supportability, safety and economy of operation.

**Propulsion Technical Committee Charter**

The Propulsion Committee charter is to emphasize and further the advancement of propulsion technology for vertical flight and foster its useful application throughout the industry with a focus on airworthiness safety. This includes technology for power plant and power transmission design and criteria including their interaction, airframe interface, performance, operational environment, related accessories, and subsystems (including APU’s starting systems, fuel systems, hydraulic systems, pneumatic systems, etc.).

The Propulsion Committee places primary emphasis on the areas of the thermodynamics, internal aerodynamics, dynamics, control systems, drive system technology, propulsion systems performance and operational characteristics, EHUMS, reduction of operating costs, weight or maintenance requirements, installation concepts, environmental requirements, and integrated control systems including simulation uses to enhance propulsion systems. These activities will be furthered through high quality technical sessions held at the AHS annual forums, technical specialists’ meetings, and technical papers and activity summaries prepared for publication in the Journal and *Vertiflite*.

Additionally, the Propulsion Committee will maintain a strong technical organization, providing a training ground for new society leaders and maintain adequate historical records. The committee will also coordinate and serve as a link between the AHS and other professional societies as needed.

**Safety Committee**

The AHS Safety Technical committee is created to increase the emphasis of safety in all technologies that are integral to the design/operation of a helicopter. Safety is to be considered both at the component reliability level and integrally at the level of the helicopter and its operations. The aim is to substantially increase the safe operation of the helicopter and increased survivability of its occupants in the event of an unsafe situation.

The committee will study the application and benefits of technology in order to negate the safety critical hazards to commercial, private and military rotorcraft in worldwide operations. The AHS Safety technical committee will also coordinate the IHST initiatives and mitigation strategies within the AHS Technical committees and promote the development of suitable technologies.

Members: Membership to include a small group of “core” members and liaison members from the other AHS TCs.

**Structures & Materials Technical Committee Charter** [Submitted February 2005]

The Structures & Materials Technical Committee should strive to satisfy the technical, educational, informational, and advocacy needs of the structures and materials community with interest in rotorcraft flight. The helicopter structure provides the platform that supports all systems necessary for aircraft performance. The helicopter structure should, therefore, be designed such that the pilot can successfully perform the aircraft’s mission. The designed-in capabilities of the structure should assure readiness of the aircraft.

The Structures &Materials Technical Committee (S&M TC) shall strive to advance the state-of-the-art in all technical areas of structural analysis and materials. The technical areas shall not only include the behavior of materials and the fundamental methods of structural analysis but will also include the advances in these fields. Advances in the methods of analysis, for example, will include improved accuracy and faster turn-around times through the use of advanced engineering and computing resources. Advances in materials, for example, shall include comprehensive documentation
of the material behavior pertinent to the rotorcraft industry. The use of resources, such as, large-model visualization and integrating the interaction of multi-disciplines, should be encouraged to enhance concurrent engineering within the Integrated Product and Process Development process. The goals of advances in structural and materials should be directed towards rapidly producing a lighter, more capable quality product less expensively.

These activities will be coordinated through the organs of the AHS. Technical sessions and technical specialists’ meetings will be arranged to foster advancement and interest at international, national, and regional levels. In addition, technical papers will be solicited for the Journal and Vertiflite to encourage the above goals.

The Structures & Materials Technical Committee shall maintain a strong technical organization, provide the training ground for upcoming Society leaders, and maintain historical records of its activities. The S&M TC shall interact constructively with other technical committees within the AHS to further the Society’s goals. Lastly, S&M TC shall be a link between AHS and other professional societies for all structures and materials activities.

Dr. J.K. Sen  
Chair, AHS Structures Technical Committee

Fatigue and Damage Subcommittee Charter

The main purpose of this subcommittee is to foster the advancement of the technologies of fatigue and damage tolerance in rotorcraft design. This is primarily accomplished in two ways. First, the subcommittee offers a forum for discussing the current issues involved in these two technologies and provides a means of keeping open communication amongst the subcommittee members and the rotorcraft community in general. Second, the subcommittee seeks to investigate and clarify the details involved in making these technologies successful through member participation in round-robin technical problems.

Test & Evaluation Technical Committee Charter

Mission

The Test and Evaluation Technical Committee’s areas of primary responsibility are to coordinate AHS activities of all operational aspects such as availability, survivability, economics, interdisciplinary tests and procedures for aircrafts and components being small scale, full scale or simulation.

Charter

- Maintain a strong technical organization.
- Sustain a diverse Committee membership including representatives of industry, government and academia.
- Organize high qualities Forum sessions.
- Organize and conduct relevant Technical Specialist meetings.
- Support the AHS Journal to ensure technical excellence.
- Promote communication with other Technical Committees and other professional societies.
- Promote membership affiliation.
- Establish the AHS as an organization to which the government, industry, and the general public can look for assistance, direction, and leadership with respect to vertical flight aircraft design.

Committee Structure

The committee operates through the dedication of volunteers and should include representation from industry, government and academia. An annual committee meeting is held generally in conjunction with the Society Annual Forum.

- The number of regular committee members should be no more then 16, including the Chair.
- Membership should achieve a balanced representation of the active organizations, industry, academia and government.
- All Committee members should be members of the AHS International.
- Membership is for three years. The term could be extended if the member is elected / nominated as a Committee Officer.
- The Committee members should be active and recognized professionals in the field of the Committee.
Commitment should be obtained from the members and their supporting organization that the member will be able to participate at one committee meeting a year.

Periodic turnover is encouraged in order to bring new energy and ideas and to promote and encourage participation into the AHS International activities.

The committee elects the officers with the Chair being approved by the Technical Director.

Committee Officers

**Chair**

Terms

- Terms for Chair are two years.
- The Chair position should be held alternatively by representatives from the helicopter industry, government and academia.
- The Chair should provide a successor, preferably an experienced committee member and should ensure that at least one member is willing to serve.
- The Chair and the Deputy Chair nominate the new Deputy Chair.
- The Deputy Chair will normally progress to the Chair position.

Roles and Responsibilities

- The Committee Chair organizes and leads the annual meeting.
- Communicates with Committee members as required.
- Nominates Deputy Chair.
- Solicits volunteer or nominates Session Chair.
- Prepares Committee agenda.
- Communicates Best Paper and Presentation results to the Technical Director.
- Solicits papers for presentation to the yearly *Vertiflite*.
- Represents the Committee in AHS International planning process.
- Coordinate with other Committee Chairs.

**Deputy Chair**

Terms

- Terms for Deputy Chair are two years.
- Progresses to the position of Chair.
- Assists the Chair to nominate the next Deputy Chair

Roles and Responsibilities

- The Deputy Chair takes Committee meetings minutes.
- With the participation of the Committee members evaluates the papers presented as potentials for publication in the AHS Journal.
- Maintains contacts and assists the Chair as needed with *Vertiflite* articles.
- Assist the Chair with the preparation of the next Committee meeting.
- Serves as the Committee Secretary.

**Session Chair**

Terms

- Term for Session Chairs is one year.
- Session Chair volunteer or are nominated by Committee Chair and then approved by the Committee.
- If more than one session planned may suggest to the Committee Chair to nominate a Session Co-Chair

Roles and Responsibilities

- Revises and publishes the Call for Papers for the Annual Forum.
- Responsible for gathering the paper abstracts and coordinating the distribution to the Committee members for review.
- Selects the papers based on Committee review and informs the authors.
- Monitors final papers presentation.
- Chairs the Technical sessions.

**Committee Members**

Terms

- Terms for Members are three years.

Roles and Responsibilities

- Participate in one Committee meeting at the Annual Forum.
- Evaluate the Papers presentation.
Submits to the Chair information to be presented in the *Vertiflite*.
Participate in workshops, Technical meetings.
Participates in the nomination and election of new members of the Committee.

**Unmanned VTOL Aircraft and Rotorcraft Technical Committee Charter**

Background: Uninhabited Aerial Vehicles and the associated field of intelligent robotic systems are becoming an integral element of the military and hold promise for many civil applications as well. The U.S. Congress, the Administration and the DoD have stated the intent to progressively transform to a force structure with a large component of UAVs in the execution of operational and intelligence collection operations. Other nations are also planning significant expansion into this area of technology. Currently the international budget for these systems is over $2B and growing rapidly. In the future there is likelihood that certain classes of manned aircraft will also have alternative UAV modes of operation. The AHS held a special UAV session at the 2001 Forum with outstanding participation, including significant international participation. Although there is an Association for Unmanned Vehicle Systems International and a European Uninhabited Vehicle Systems annual meeting, these groups are very broad-based and do not represent the special technical interests of the AHS International community.

Charter Statement: “The committee will focus on those aspects of UAV vertical flight technology that are unique to these types of systems, with the major emphasis on the emerging field of intelligent semi-autonomy and interoperability with manned systems. Other UAV-unique technologies associated with performance, sensors and payloads, reliability and robustness, operability and survivability will also be considered.”

Technical Scope: The committee seeks to focus on new technologies for UAV systems with a balanced consideration for five broad areas of capability:

- **Autonomy and Operability**: for minimum operator intervention except when the situation requires for mission-related reasons and to minimize the level of operator training.
- **Reliability and Robustness**: to achieve increased air vehicle operability and affordability by system improvements to significantly reduce air vehicle loss rates.
- **Payloads, Sensors and Data Links**: to enable a wide range of missions and concepts of operation in instrument meteorological conditions.
- **Performance**: to permit the greatest degree of mission flexibility in terms of range, endurance, payload, speed and altitude.
- **Survivability**: for military systems

The Unmanned VTOL Aircraft & Rotorcraft Committee will act as the technical focal point for developments in these areas. It will address UAV-unique aspects in areas such as innovative system design (including ground control elements and networking), UAV unique sensors and payloads, sensor exploitation and perception, situational awareness and understanding, intelligent semi-autonomous avionic systems, task and goal based decision making technologies including emerging multi-layer architectures, all-electric flight controls, obstacle and aircraft sensing and avoidance, threat detection sensing and avoidance, combined manned-unmanned operations, airspace operations, safety, reliability, and testing. Advances in the more traditional technology areas of aerodynamics, structures, materials, dynamics, propulsion and drive systems, acoustics, etc., will either be referred to the standing committees or incorporated within this committee as appropriate.

Call for Papers: The Society is forming a new Unmanned VTOL Aircraft & Rotorcraft Committee to increase focus on those UAV-unique technologies that are shaping the future of both military and civil aerospace. Technical papers are solicited that address subjects unique to these types of systems, with the major emphasis on the emerging field of intelligent semi-autonomy and interoperability with manned systems. Other UAV-unique subjects associated with performance, sensors and payloads, reliability and robustness, operability and survivability will also be considered.
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<thead>
<tr>
<th>Region</th>
<th>Name</th>
<th>Position</th>
<th>Company/Institution</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
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</table>
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Membership Classifications

INDIVIDUAL

Individual membership in AHS International is open to anyone residing both in the U.S., Canada, and abroad who wishes to become more involved with the vertical flight industry. The AHS is the only organization dedicated solely to the advancement of vertical flight technology and its applications. All professions are represented in the Society’s membership, including engineers and scientists, pilots and operators, military and civilian government personnel, company management and marketing representatives, students, teachers and consultants to the industry. At one time the overwhelming majority of AHS members were employed by the major helicopter manufacturers. Today, however, new and different technologies are being integrated into the basic helicopter and this has resulted in a large influx of members from companies involved with avionics, systems integration and simulation.

There are seven different classifications of membership:

1. **Honorary:** Two Honorary Fellows are awarded each year at the Society’s Annual Forum to members whose career-based leadership and innovation have significantly advanced the interests of the vertical flight community. Honorary membership is for life and no dues are assessed.

2. **Regular:** Regular Members (not covered by any special category) are assessed at $65.00

3. **International:** International Members are those AHS members residing in countries other than the U.S. and are assessed at $85.00 (the additional amount helps defray postage costs).

4. **Student:** Student memberships are available to all full-time students for an annual fee of $25.00. To be eligible for a student rate one must be a full-time student for the upcoming year (students receiving full pay and allowances are not eligible). An additional mailing fee of $20.00 needs to be added for any full-time students residing outside the U.S. To be eligible for this rate, member must include the name of the Institution.

5. **Young Professionals Under the Age of 30:** AHS members under the age of 30 are assessed at $40.00. An additional mailing fee of $20.00 needs to be added to any persons residing outside the U.S. To be eligible for this rate, member must include date of birth.

6. **Retired:** AHS members who are over age 60, fully retired, and who do not receive any other income, are eligible for a special rate of $35.00. An additional mailing fee of $20.00 needs to be added to any persons residing outside the U.S. To be eligible for this rate, member must include date of birth.

7. **Uniformed Military:** AHS members who are active military are eligible for a special rate of $35.00. An additional mailing fee of $20.00 needs to be added for military residing outside the U.S.

8. **Lifetime:** Lifetime membership is only offered to those individuals who have been members of the Society for at least 25 consecutive years and who are Gold Circle Members. The cost is $995.00 for U.S. members and $1295.00 for International Members.

CORPORATE

Corporate membership is available to all companies actively involved or interested in the vertical flight industry. The AHS has made Corporate Membership available to such organizations for over a decade and the list of businesses thus affiliated with the Society has grown steadily. There are 70+ Corporate Members of the AHS furthering the work of the Society. There are distinct benefits to any company choosing to affiliate with the AHS at the corporate level. These benefits vary with the type of corporate membership taken.
AHS CORPORATE MEMBERSHIP DUES STRUCTURE
To keep pace with changes affecting the industry, the Board of Directors has voted to base corporate membership class solely on revenue. The new guidelines, which became effective September 1, 2002, are as follows:

<table>
<thead>
<tr>
<th>CLASS</th>
<th>ANNUAL REVENUE (US$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platinum</td>
<td>Greater than $100 million</td>
</tr>
<tr>
<td>Gold</td>
<td>Greater than $100 million</td>
</tr>
<tr>
<td>A</td>
<td>Greater than $100 million</td>
</tr>
<tr>
<td>B</td>
<td>$50 million to $100 million</td>
</tr>
<tr>
<td>C</td>
<td>$10 million to $50 million</td>
</tr>
<tr>
<td>D</td>
<td>$1 million to $10 million</td>
</tr>
<tr>
<td>E</td>
<td>Less than $1 million</td>
</tr>
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</table>

Rates and number of individual members allowed for the various Class of membership are:

<table>
<thead>
<tr>
<th>CLASS</th>
<th>COST ($US)</th>
<th>REPRESENTATIVES</th>
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<td>Diamond</td>
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<td>Gold</td>
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<td>E</td>
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Corporate Membership and the benefits for each class are described in greater detail on the Society’s website under Corporate Membership at www.vtol.org/who-we-are/corporate-membership.

EDUCATIONAL

Educational membership in the Society is reserved for educational institutions. The annual dues of $250 entitle two educational members to all AHS publications, including the Annual Forum Proceedings at no additional charge. It also entitles representatives to on-line access to the Journal of the American Helicopter Society from 1956 to the current date. Two individual memberships are given to the primary educational contacts. The educational member contact is kept informed of all AHS meetings and activities. Personnel from such organizations are entitled to a discount on exhibit space (exclusive of full registration) at the AHS Annual Forum.

Educational membership and its benefits are described more fully on the Society’s website under Educational Membership at www.vtol.org/who-we-are/our-educational-members.
The purpose of this guide is to capture ideas and lessons learned regarding the attraction and retention of AHS members throughout the world. It should be reviewed and updated at least annually and be made available to all membership committee members and other AHS officers upon request. Maintenance and updates to this document are the responsibility of the AHS Membership Vice President and inputs are encouraged from all membership committee members.

1. Membership dues via automatic payroll deduction

A pilot program was launched in 2007 in the Southwest Chapter by Bell Helicopter Textron, Inc. The pilot was very successful (a 50% increase in membership achieved). The program consists of the following elements:

a. A website tailored specifically for each company is developed and hosted by AHS. Each company employee uses the AHS provided link to access the online membership sign-up/renewal page.

b. Membership fees are collected on a per paycheck basis amortized across the year. For example, a company that pays employees every two weeks (26 checks) deducts $2.50 from each paycheck to cover membership fees for those older than 30. This sum is equivalent to the $65.00 annual fee for a regular membership in this age bracket.

c. Membership fees are communicated via the online website on a price per paycheck basis (versus the annual fee total).

d. Options for the *Journal of the American Helicopter*, etc. are handled in an analogous manner.

e. Memberships via payroll deduction are automatically renewed annually (there’s no need for employees to reconsider their membership each year, which helps with retention).

f. AHS works with each company's finance department to establish distribution and verification methods. Typically, company-collected AHS membership fees are added up monthly and remitted to AHS via electronic transfer.

AHS accepts the burden regarding employees who leave the company mid-membership. AHS is responsible for collecting any remaining dues from that member or suspending the membership if needed.

With the above process in place, companies are encouraged to develop and launch a membership drive at least annually. As part of the campaign, support from each company's top management is encouraged. Messages of support from management along with the link to the online membership signup page should be disseminated using the company's internal intranet website. A link to the company's local AHS Chapter that includes the membership signup link is encouraged. It should be available throughout the year (not just during member drives).

Prize incentives for new members are also encouraged. AHS headquarters is willing to offer custom mugs, printed with both the company and AHS logos, for each new member and each member who renews via payroll deduction. The company can consider additional incentives awarded based on random drawings for new or renewing members who join via payroll deduction. These additional incentives can include free helicopter rides, desktop models of one of the company's products, sports shirts with company logo, gift certificates to the company store, etc.

2. The role of Specialists' Meetings/AHS Annual Forum as a Recruitment Attraction & Retention Tool

Several of the local chapters have had a great deal of success attracting and retaining members by hosting technical specialists' meetings. The key here is establishing a registration price for members and then bumping the price up to cover the fee of $65.00 per year for non-members. The non-members are then given a "free" one year membership in AHS. Thus, all non-members who register to attend the specialists’ meeting automatically become members for at least a year.
3. Outreach to potential new members beyond the core technical pool

As you will see in the next section regarding AHS headquarters Initiatives, there are many attractive reasons to join AHS that are either in place or in the works today. AHS membership is not just for engineers. Everyone involved in the vertical lift industry represent potential AHS members. From the factory floor to top executives, any individual in any position and discipline involved in our industry is a candidate to join AHS. Many people in our industry are interested in knowing and understanding the "bigger picture" regarding not only their own company, but the ongoing issues and news throughout the industry. AHS is making membership more attractive to all disciplines, including non-technical folks, by providing additional member only content beyond just the technical domain. Local chapters are encouraged to learn about these new incentives to join AHS and to cast a wider net when formulating and executing their own membership drive campaigns.

4. AHS Headquarters Initiatives

AHS headquarters is pushing for several initiatives to reclaim and expand the membership worldwide.

AHS headquarters began using electronic renewal notices in February 2008. This ensures the member is not only timely with his or her renewal but that they are also reviewing their profile to ensure their information is as up-to-date as possible.

AHS headquarters has the Journal of the American Helicopter Society available online starting with its first issue in 1956 up to the current issue of the day. Nearly all Annual Forum Proceedings and many Specialists' Meetings Proceedings are also now available on the AHS Online Store. This online area is in a searchable format and allows an instant and immediate payment and receipt of the document – an asset to any researcher.

Over the last few years, we have lost various members to retirement and job migration, as well as due to email communications issues. We have distributed a letter to former members who lapsed more than twenty-four months ago with some encouraging results.

5. Local Chapter Dinner meeting ideas

a. Speakers - For those recruiting graduating students, the company recruitment team may be willing to visit a campus and speak at the local chapter as part of their overall recruitment visit.

b. Program Managers and Chapter Presidents should receive local chapter meeting notices from AHS Headquarters monthly so that they can obtain ideas as to who other chapters are inviting to speak.

c. Website Dinner Meeting Summaries - A summary of each chapter dinner meeting (ideally with a few select pictures) may be sent to AHS headquarters to be posted on the vtol.org website. This serves two purposes: 1) It provides insights into activities across all the chapters, and 2) It gives individual chapters ideas regarding speakers, meeting formats and venues, etc. Each local chapter can host this same information on their own website if they have one as well as provide it to company's represented in the chapter to host on their internal intranet websites.

6. Other Programs and Incentives

a. Chapters may invite local university students to attend chapter dinner meetings (at no cost if they are AHS members) and make ten minute presentations on their university research projects.

b. In conjunction with the AHS Forum, the staff invites some 50-70 students to volunteer to help at two technical sessions in exchange for complimentary registration at the Forum (sans the banquet) with the caveat that they be members. This generates a significant number of new members each year and exposes students to the world’s most significant vertical flight technical event.

c. AHS has replaced the Society's website, improving its usability and navigation for members. In addition, AHS now has a robust presence on Facebook, LinkedIn, Google Plus, YouTube, Twitter and Facebook.
Membership Renewal/Retention Information

To assist in local membership, a quarterly (January, April, July and October) report of the chapter’s membership will be available to Chapter Membership Chairs and Presidents through the online portal. These reports will include statistics provide a comparison over three years and cover the following category breakdowns:

- Employer Affiliation
- Chapter Counts
- New Members
- Length of Membership (Coming Soon)

In addition, a report of all AHS New Members and all Expired Members is emailed on a monthly basis. These statistics provide a comparison over three years and cover the following category breakdowns:

- Employer Affiliation
- Length of Membership
- Other Reports Upon Request

These reports will assist in membership promotion and retention. Keeping a current member active is as important as sponsoring a new member.

Outlined below is the billing schedule for AHS renewals. Lapses in membership are often due to oversight and address changes. Chapter Membership Chairs are encouraged to call, or encourage their members to call, AHS headquarters if they are not receiving their membership materials.

<table>
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<tr>
<th>Request Mailing</th>
<th>Due Date</th>
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<tr>
<td>1st Request Mailing</td>
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<tr>
<td>2nd Request Mailing</td>
<td>1 Month Prior</td>
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<tr>
<td>3rd Request Mailing</td>
<td>1st Week of the Month Due</td>
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<tr>
<td>Suspense Notice</td>
<td>1 Month Past Due</td>
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<tr>
<td>“Please Come Back”</td>
<td>2 Months Past Due</td>
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The Gold Circle Club

In 1977, the Board of the American Helicopter Society established The Gold Circle Club to honor individuals who have been Society members for at least 25 consecutive years. These members represent the pioneers and leaders of the helicopter technical community. The AHS is proud to recognize our Gold Circle members, listed below by the year in which they joined the Society.

*Note: Names that are italicized are members that have passed away while still members of our Society*

1943
Mr. Ralph P. Alex
Mr. Stephen J. Chris
Mr. Angelo A. Coronato
Mr. James A. Gean
Mr. Stanley Hiller, Jr.
Mr. Edward F. Katzenberger
Mr. Robert M. Kee
Mr. Harold E. Lemont
Mr. Ralph B. Lightfoot
Mr. Chester D. Mayerson
Mr. Michael A. Paradiso
Mr. George Townsend
Mr. Ken L. West
Mr. Wayne Wiesner

1944
Mr. Donnell W. Dutton
Mr. Jerome B. Friedenberg
Prof. Alfred Gessow
Mr. F. N. Piasecki
Mr. Ren Pierpoint
Mr. Robert J. Sullivan
Mr. Dimitry D. Viner

1945
Mr. Glidden Doman
Mr. Edmund L. "Skip" Eveleth
Mr. Bartram Kelley
Mr. Bernard Lindenbaum
Mr. John P. Reeder
Mr. Sergei I. Sikorsky

1946
Mr. Miller A. Wachs

1947
Mr. Jack M. Cherne
Mr. Elmer S. Congdon
Mr. Jan M. Drees
Mr. Charles H. Kaman
Mr. David H. Kaplan
Mr. Edward T. Keast
Mr. Will A. Kuipers
Mr. Frederick C. Phillips
Mr. James S. Ricklefs
Prof. Wieslaw Z. Stepniewski

1948
Mr. Joseph Stuart III

1949
Mr. T. E. Dumont
RADM Francis D. Foley
Dr. Kurt Hohenemser
MG John Klingenhagen Ret.
Mr. C. Wes Moore

1950
Mr. Walter W. Engelbart
Mr. Frederic B. Gustafson
Mr. Joseph Mallen
Mr. Stanley Martin, Jr.
Dr. Rene H. Miller
Mr. Friedrich Von Doblhoff
Mr. Hans Weichsel, Jr.
Capt. Marvin V. Wingrove

1951
Mr. Robert B. Bossler, Jr.
Mr. William H. Gates
Mr. Paul W. Holt
Mrs. Jean Ross Howard-Phelan
Mr. Myron M. Kawa
Mr. Paul F. Maloney
Mr. Robert W. Metzger
Mr. Herbert N. Shohet
Dr. Gerhard J. Sissingh
Mr. Paul S. Tani
Mr. Francis J. Wagner
Mr. Peter Wright

1952
Mr. Rodney W. Balke
Mr. Frank J. Carlson, Jr.
Mr. Edward S. Carter
Mr. Wesley L. Cresap
1953
Mr. Albert P. Averill
Mr. Richard Gabel
Mr. Norman B. Gorenberg
Mr. Louis W. Hartwig
Mr. Leon Jacobson
Mr. Robert Jones
Mr. Leonard J. LaVassar
Mr. William L. McKeown
Mr. John D. Minnaugh
Mr. William B. Peck
Mr. Robert R. Piper
Mr. Stephen D. Remington
Mr. Ben B. Rock
Mr. Robert J. Tapscott
Mr. Charles J. Trojahn
LTG Robert R. Williams Ret.

1954
Mr. Carl O. Albrecht
Mr. J. Curtis Barnes
MAJ Paul W. Bass Ret.
Dr. Gabriel D. Boehler
Mr. James T. Duffy
Mr. Evan A. Fradenburgh
Dr. Norman D. Ham
Mr. Robert E. Head
Dr. David S. Jenney
Mr. Hilliard L. Lubin
Mr. James R. Moran
Mr. Frank S. Okamoto
Mr. Harry B. Picken
Mr. Donald V. Shafer
Mr. Harry Sternfeld, Jr.
Mr. Edward Woll

1955
Mr. Peter J. Arcidiacono
Mr. Alex Berman
Mr. Richard Bumstead
Mr. David P. Chappell
Mr. George E. Curtin, Jr.
LTC Willis R. Kusy Ret.
Dr. Barnes W. McCormick, Jr.
Mr. Oscar L. Norman
Mr. Calvin V. Olshan
Mr. Earl Schneider
Mr. Donald R. Segner
Mr. Herbert H. Slaughter
Mr. Richard Sprinski
Mr. Rens H. Swan
Mr. Martin Vale
Mr. John P. Walsh
Mr. Kenneth G. Wernicke

1956
Mr. D. Edward Broman
Mr. John E. Burkam
Mr. Joseph P. Cosgrove
Mr. John M. Duhan
Mr. Lee H. Erb
Mr. John J. Fetsko
Col Joseph E. Givens USMC Ret.
Mr. Robin B. Gray
Mr. Thomas W. Griffith
Mr. James S. Hayden
Mr. Enoch M. Johnson, Jr.
Col Raymond E. Johnson, Ret.
Dr. Gordon B. McKay
Mr. Erwin P. Roeser
Mr. Henry C. Smyth, Jr.
Mr. Reinier J. Van der Harten
Mr. Theodore A. Wozniak
Mr. Ernest R Wright, Jr.
Mr. Robert Zincone

1957
Dr. Richard L. Bielawa
Mr. Frederick K. Bietsch
Mr. Michael C. Frengley
Mr. Knute Coates Hansen
Ms. Sally V. La Forge
Mr. John V. Leonard
Mr. John R. Olson
Mr. Ernst C. Schellhase
LTC John M. Slattery Ret.
Mr. George A. Smith
Baron W.F. Von Engelhardt
Dr. E. Roberts Wood
Mr. Victor A. Zaveruha

1958
Mr. Donald Armstrong
Mr. Dean Earl Cooper
LTC William P. Craddock Ret.
Mr. Thomas F. Hanson
Mr. Spero Jordanides
Mr. Ronald H. Merritt
Mr. James R. Neff
Mr. Courtland D. Perkins
Mr. Laren Pitcairn
Mr. Anthony D. Rita, Jr.
Mr. Arnold Robinson
Mr. Michael S. Saboe
Mr. John J. Schneider
Mr. Fred L. Smith
Dr. Dora D. Strother

1959
Mr. David M. Blake
Mr. Robert L. Kaplan
Mr. Peter G. Kappus
Mr. Henry L. Kelley
Mr. Anton J. Landgrebe
Mr. Bayard T. McWilliams, P.E.
Mr. James R. (Ron) Mecklin
Mr. Isadore Senderoff
Mr. Robert H. Spencer
Mr. Watson H. Tanner
Mr. Rodney K. Wernicke

1960
Mr. Walter N. Attebery
Mr. Henry V. Borst
Dr. Howard C. Curtiss, Jr.
Mr. H. Kipling Ed embryo
Maj Fred W. Forbey USAF Ret.
Mr. Franklin D. Harris
Mr. William D. Harris
LTC Jimmie S. Honaker
Mr. Julian L. Jenkins, Jr.
Mr. Alvin Kagan
Dr. Andrew Z. Lemnios
Mr. Robert L. McDaniel
Mr. Robert A. Monteleone
Mr. David C. Norman
Mr. William F. Paul
Mr. Frank Rixen
Mr. George S. Schairer
Mr. John J. Shapley
Mr. Arthur F. Smith
Mr. Serge Tapykoff
Mr. Rodney S. Taylor
Mr. William W. Walls, Jr.
Mr. John F. Ward
Mr. John W. White

1961
Dr. Akira Azuma
Mr. Paul J. Balfe
Mr. Richard L. Ballard
Mr. William C. Barr
Mr. Thomas H. Boyd, Jr.
Mr. Richard C. Buyers
Mr. Charles C. Crawford, Jr.
COL William E. Crouch
Mr. Edward J. Currier
COL Charles R. Dunn
Mr. Donald G. Ekquist
Dr. Ing Vittorio Fiorini
Mr. John A. Gaidelis
Mr. Edward S. Hibyan
Mr. Robert J. Huston
Mr. Arnold E. Junker
Mr. Andrew J. Mank
Mr. Robert T. McIntyre
Mr. Stanley Mills
Mr. Norman E. Nelson
Mr. Robert G. Orr
Mr. Dimitri P. Papadakos
Mr. Franklin D. Robinson
Mr. John Shostak
Mr. Paul L. Shultz
Mr. George T. Singley, Jr.
Mr. Robert H. Stroub
CAPT William E. Walker
Mr. Leon Wallerstein Jr.
Mr. Richard P. White, Jr.
Mr. Robert Wiesner

1962
Mr. Samuel E. Brodie
Mr. Robert J. Campbell
Dr. Richard M. Carlson
Mr. Rodney L. Clark
Mr. Cecil E. Covington
Mr. E. C. Darlington
Mr. John E. Duffy
Mr. Peter A. Gilman
Mr. Ralph E. Goodall
Mr. Harry S. Groh
Mr. Dieter H. Halff, Dipl.-Ing.
Mr. Peter Hodson
Mr. W. Euan Hooper
Mr. Bruce F. Kay
Col Howard E. Kessinger, Jr.
Mr. Jaan Liiva
Mr. Larry A. Meidell
Mr. Arthur W. “Art” Moss
Mr. Gary F. Rast
Mr. James B. Rorke
Mr. Frederick J. Silverio
Mr. Albert J. Sivahop
Mr. Gary N. Smith
Mr. Thomas W. Soter
Mr. Wyman A. Soule
Mr. Armand G. Stravato
Mr. Richard G. Stutz
Mr. Donald L. Swope
Mr. Paul W. von Hardenberg
Mr. Ralph E. Walsh

1963
Mr. Thomas Baldwin
Mr. Ernest L Hartman
Mr. Norman B. Hirsh
Mr. Andrew W. Kerr
Mr. Stanley P. Laskus
Mr. Richard B. Lewis, Il
Mr. Frank A. Molnar
COL Robert W. Newton
Mr. George Price
Mrs. Doris Renninger-Brell
Mr. James J. Satterwhite
Mr. Edward I. Seto
Mr. Robert A. Stange
Mr. Carrol D. Wallace
Mr. Robert E. Warren
Mr. Jack L. Zimmerman
Mr. Herman Zubkoff

1964
Mr. Irving L. Ashkenas
LTC Vincent P. Bailey, Ret.
Mr. Wayne J. Barbini
Mr. Lawrence D. Barrett Jr.
Mr. Bruce B. Blake
Mr. William P. Brown
Mr. C. Hudson Carper, Jr.
Mr. John A. DeTore
Mr. Robert G. Ferry
Mr. Richard V. Gidner
Mr. Michael A. Gockel
LCDR Richard S. Gordon USN
Mr. William E. Hill
Mr. David L. Key
Mr. Paul R. Kopczynski
Mr. John A. Longobardi
Mr. Donald W. Loughran
Mr. Leonard J. Marchinski
Mr. William L. McKeown
Mr. O. K. Moore
Mr. Kurt Pfleiderer, Dipl.-Ing.
CAPT John M Quarterman USN
Mr. Jack G. Real
Mr. Archie T. Sherbert, Jr.
Mr. Malcolm F. Symonds
Mr. J. Charles Ziemba

1965
Capt Reynolds Beckwith Ret.
Mr. John T. Blaha
Mr. LeRoy T. Burrows
Dr. Raymond G. Carlson
Mr. Vincent F. Cremonese
LTCOL Donald A. Dalrymple, USMC Ret.
Mr. Edmund J. De Santis, Jr.
Mr. Daniel C. Dugan
Dr. John C. Erickson, Jr.
Mr. Troy M. Gaffey
Mr. David Lee Green
Mr. Frederick H. Immen
Mr. K. P. Jessurun
Mr. J. Ford Johnston
Mr. Nicholas C. Kailos
Mr. William A. Kuczynski
Mr. Herman I. MacDonald
Mr. Giffen A. Marr
Mr. John C. McKeown
Mr. Bruce L. McManus
Mr. William M. Meyer
Mr. William A. Nickels
Mr. Charles F. Niebanck
Mr. Clarence A. Pateode, Jr.
Mr. David A. Richardson
Dr. Peter Richter, Dipl.-Ing.
Mr. Henry G. Smith
Mr. Raymond G. Smith
Mr. John R. Somsel
Mr. David W. Thomas
Capt V. V. Utgoff
Mr. Richard Wasserman
Mr. Perry H. Young

1966
Mr. William D. Anderson
Mr. Joseph P. Cribbins
Dipl. Ing. Guenter O. Daske
Mr. Patrick J. Devereaux
Mr. James Gomez
Mr. Ronald E. Gormont
Mr. Frank J. Harla, Jr.
Mr. David J. Hodder
Mr. Paul C. Hollowell
Mr. John B. Horton
Mr. Robert D. Hubbard
Mr. Charles W. Hughes, Jr.
Mr. R. C. Hutson
Mr. James L. Irwin
Mr. David A. Krampitz
Mr. Wes G. Lematta
Mr. Robert J. London
LTG Thomas Miller, USMC Ret.
Mr. Pasquale (Pat) Perrotta
Mr. Cecil S. Richardson
Mr. Ronald F. Sakaki
Mr. Robin W. Sandford
Mr. David L. Sharpe
Cdr Frank L. Shelley USCG Ret.
Mr. George W. Sibert
Mr. William J. Snyder
Mr. Walter G. Sonneborn
Mr. Paul F. Yaggy
Mr. Ugo Zullo

1967
Mr. Ronald W. Anderson
Mr. Jim Connell
Mr. Woodrow L. Cook
Mr. John Dainiak
Mr. John M. Davis
Mr. Paul Domanovsky

Mr. Neal James Donaldson
Mr. Dennis E. Dura
Mr. Bernard L. R. Fry
Mr. Richard F. Frye, Jr.
Mr. Edwin Z. Gabriel
Mr. Gerald I. Gard, Jr.
Mr. Robert P. Guay
Mr. Harry H. Heyson
Mr. Steve Holuk
Mr. Horace P. Howell
Mr. Walter C. Joiner
Mr. Marcel Kretz
Mr. Arthur W. Linden
Mr. John J. Lucas
Mr. Otto H. Nowotny
Mr. James L. Potter
Mr. Joseph Shefrin
Mr. Harold E. Sherrieb
Mr. Maurice F. Sherry
Mr. Edward S. Spencer
MG Story C. Stevens Ret.
Mr. Thomas R. Stuelpnagel
Mr. Richard D. Szczepanski
Mr. Tommie L. Wood

1968
Mr. Andreas Aastad
Mr. Irving Alansky
Mr. Fred C. Battles PE
Mr. Richard L. Bennett
Mr. Russell Boocock
Mr. Robert K. Burgess
Mr. John S. Burks
Mr. Clem C. Countess
Mr. William J. Crawford, III
Mr. Albert J. Desrochers

1969
Mr. Harold Andrews
Mr. Dean C. Borgman
Mr. William G. Bousman
Mr. Robert B. Clifton
Mr. William R. Dodds
Mr. John W. Gill
Mr. John J. Justen
Mr. John A. Macrino
Mr. John D. Mattherly, Jr.
Mr. Carl G. Matthys
Dr. William J. McCroskey
Mr. Gene P. Munson
Mr. Chester E. Neal
Mr. Robert Parkinson
Mr. Alfred J. Potthast
Dr. Fredric H. Schmitz
Mr. John H. Sherrer
Mr. John L. Shipley
Mr. David V. Shuter
Dr. Francis E. Spring, Jr.
Mr. L. M. (Mike) Stewart
Mr. Frank J. Tarzanin Jr.
Mr. David R. Woodley

1970
Mr. Charles N. Benshetler
CAPT Arne B. Bruflat
Mr. D. Luis Saenz De Pazos
Mr. Horst Dengler
Mr. Rene A. Desjardins
Mr. William J. Dixon, Jr.
Dr. Joseph J. Eisenhuth
Mr. Clarence H. Frick
Cdr Robert E. Hickle Ret.
Mr. Kenneth H. Landis
Mr. Edward J. Leach
Mr. Wayne R. Mantay
Mr. Carl N. Milko
Mr. Charles E. K. Morris, Jr
Mr. Rene Mouille
Mr. John R. Murphey
Mr. James A. O'Malley, III
Dr. S. Harry Robertson
Mr. George T. Singley, III
Dr. Roger L. Smith
Mr. Stephen J. Soltis
Dr. Irving C. Statler
Mr. Andrew Tarc
Mr. Goran A. Wallert
Mr. Joseph B. Wilkerson
Dr. Warren H. Young, Jr.

1971
Mr. Edward E. Austin
Mr. Donald E. Beck
Mr. Robert H. Blackwell, Jr.
Mr. Jack Cress
Mr. Steven L. Fahrenkrog
Dr. Peretz P. Friedmann
Dr. C. Eugene Hammond
Mr. Charles D. McCall
Mr. Dennis P. McGuire
Mr. Harold K. Reddick, Jr.
Dr. Kenneth M. Rosen
Mr. William T. Yeager, Jr.

1972
Mr. George E. Anton
Mr. John L. Beilman
Mr. William B. Bigler, II
Dr. Earl H. Dowell
Mr. Paul F. Enny
Mr. Frederick D. Freeman
Dr. Gopal H. Gaonkar
Mr. J. Colin Green
Mr. Harry K. Harr
LTC Wilbur C. Hogan III, Ret.
Mr. Webb F. Joiner
Mr. Robert J. King
Dr. Felton D. Bartlett, Jr.
Mr. David J. Smith
Mr. Stephen J. Soltis
Dr. Irving C. Statler
Mr. Joseph B. Wilkerson
Mr. Charles E. K. Morris, Jr
Dr. Warren H. Young, Jr.

1973
Mr. Edward E. Austin
Mr. Donald E. Beck
Mr. Robert H. Blackwell, Jr.
Mr. Jack Cress
Mr. Steven L. Fahrenkrog
Dr. Peretz P. Friedmann
Dr. C. Eugene Hammond
Mr. Charles D. McCall
Mr. Dennis P. McGuire
Mr. Harold K. Reddick, Jr.
Dr. Kenneth M. Rosen
Mr. William T. Yeager, Jr.

1974
Mr. Gordon F. Acker
Mr. John R. Alwang
Captain John A. Cameron, CBE
Ms. Elizabeth Z. Castillo
Mr. John F. Ceccarelli
Mr. Marinus De Jongh
Mr. Gary J. de Simone
Col Frederic M. Donohue, USAF Ret.
Mr. David George
Col Terry L. Gordy Ret.
Mr. Arthur J. Gustafson, Jr.
Mr. James H. Harse
Dr. Henry E. Jones
Mr. Kenneth R. Meyers
Dr. Robert A. Ormiston
Mr. David V. Pauling
Mr. William A. Pleasants
Mr. David A. Popelka
Mr. Ernest G. Riesenfeld
Mr. Harold J. Rosenstein
Mr. Louis J. Silverthorn
Mr. George S. Sipprell
Mr. Peter D. Talbot
Mr. Ted Trept
Mr. John C. Wang
LTC Grady W. Wilson, USA Ret.
Mr. Steven E. Zalesch

1975
Dr. Dev A. Banerjee
Mr. John T. Brieger
Mr. Ronald J. Caron
Dr. Sam T. Crews
Mr. James D. Cronkhite
Mr. William A. Decker
Mr. Stephen C. Ellis
Mr. Charles F. Evers
Mr. Joseph A. Fernandez
Mr. Derek S. Hart
Mr. Paul W. Hengel
Dr. Wayne Johnson
Dr. Sesi B.R. Kottapalli
Dr. Donald L. Kunz
Mr. Ken Lunn
Mr. Michael A. McVeigh
Dr. Simon J. Newman
Ms. Jeanne K. O’Connor
Mr. Michael J. Rinaker
Mr. Ronald G. Schlegel
Mr. Kurt E. Tessnow
Mr. George E. Tucker
CW4 John S. Tulloch, USA Ret.
Mr. John F. Zugschwert

1976
Mr. Aavo H. Anto
Mr. Rudolph W. Beckert
Mr. John A. Bulakowski
Dr. Inderjit Chopra
Mr. John H. Cline
Mr. James J. DiRienzo
Prof. George T. S. Done
Mr. David A. Douglass
Dr. Frank A. Dvorak
Mr. Michael J. Garsik
Mrs. Marva L. Grovey
Mr. John F. Hagen
Dr. Michael K. Hynes
Dr. Naohiro Iboshi
Mr. George E. Kondreck, Jr.
Mr. Roger W. Lacy
Mr. Emmett Lancaster
Mr. Larry S. Levine
Mr. Joseph J. Lusczek, Jr.
Dr. William H. Mason
Mr. Charles J. Matusovich

Mr. Richard F. Murray
Mr. Robert R. Oehrl
Mr. Yoshihiro Ozawa
Dr. Pradeep Raj
Mr. Peter S. Saloomey
Mr. Evan P. Sampatacos
Dr. Daniel P. Schrage
Mr. F. Milton Schramm
Dr. Rajarama Shenoy
Dr. MacNiven Sinclair
Dr. Ronald V. Smith
Mr. Sidney C. Swatton
Mr. Gary R. Thompson
Mr. Robert L. Tomaine
Mr. C. Rande Vause
Dr. William Warmbrodt
Mr. Steven D. Weiner

1977
Mr. Vaughan W. Askue
Mr. William A. Battey
Mr. Daumants Belte
Dr. John D. Berry
Mr. Dan G. Bjeletich
Mr. Stanley J. Brizinski
Dr. Jess Browning
Mr. D. Alan Caine
BG Samuel G. Cockerham, USA Ret.
Mr. Denton Delong
Col Rudolph D. Descoteau, Ret.
Mr. Mark E. Dreier
Mr. Larry C. Franzoi
Dr. Albert R. George
Mr. Anthony Head
Mr. R. W. Hester
Mr. F. Michael Holton
Mr. Mark W. John
Ms. Elizabeth Johnson
Col Emmett F. Knight
Cdr. Gary L. Kochert, USN Ret.
Mr. Bruno Lovera
Mr. Martin D. Maisel
Mr. George A. McCoubrey
Mr. Gary E. Miller
Dr. Simon J. Newman
Mr. F. John Perry
Mr. Carl L. Peterson
Mr. Larry F. Plaster
Mr. Walter Pothoff Jr.
Mr. George J. Purdy
Mr. Eddie L. Rogers
Mr. Ernest O. Rogers
Dr. Aviv Rosen
Dr. Michael J. Rulkowski
Mr. Gerard M. Ryan
LtCol Joseph H. Schmid
Dipl.-Math Rolf Schneider
Mr. Marc W. Sheftler
Col. Kouzou Shimada, Ret.
Mr. C. Thomas Snyder
Mr. Samuel J. Sutter
Mr. Norman G. Taylor, Jr.
Mr. William E. Taylor, Jr.
Mr. Craig D. Thompson
Mr. Aivars A. Vilcins
Mr. Kenneth T. Waters
Mr. David Weller
Mr. William H. Wells
Mr. John W. Williams
Mr. Gregory P. Wright
Dr. Kunio Yasuda
Mr. Motoyoshiwaka
Mr. Karl G. Zacek
Mr. Thaddeus F. Zlotek

1978
Mr. James R. Arnold
Mr. Robert P. Barresi
Mr. Gilbert E. Boen
Mr. Robert A. Borden
Mr. Gerard N. Casale
Mr. Russell J. Cline
Mr. William S. Cobb
Mr. Ron Dobson
Mr. Graydon A. Elliott
Mr. John Franz
Mr. Steven I. Glusman
Mr. Stephen L. Haff
Mr. Michael Hahn
Dr. M. Nabil Hamouda
Mr. Michael D. Hightower
Dr. Ram D. JanakiRam
Mr. Gavin D. Jenney
Mr. George Johnson
Mr. Peter J. Jones
Mr. Manfred Kaminski
Mr. George A. Klug
Mr. David Lednicer
Mr. Ronald A. Magnuson
Col. Robert A. Mangum, USA Ret.
Dr. Robert M. McKillip, Jr.
Ms. Kelly M. Morger
Mr. Ahmad Naderi
Dr. Avi Neer
Mr. Matthias Obermayer
Mr. Clifford A. Parizo
Mr. Michael J. Pope
Mr. Ernest A. Powell
Mr. Raymond J. Rulis
Dr. Joyanto K. Sen
Mr. Helmut Schwarze

Mr. Walter Sinn
Mr. John R. Slack
Mr. Kent F. Smith
Mr. Gilbert W. Snow
Mr. Karl-Heinz Stenner
Dr. Friedrich Karl Straub
Mr. William K. Underhill
Mr. Donald Ward
Mr. Peter A. Wernli
Mr. Fred White
Capt. Akio Yamamoto

1979
Mr. C. W. Acree, Jr.
Mr. Edwin W. Aiken
Mr. Philip J. Aldridge
Mr. Gene Barndt
Mr. Edmond J. Boullay
Mr. William R. Charlton
Mr. Jon F. Coon
Mr. Seth Dawson
Mr. Floyd L. Dominick
Mr. Philip Dunford
Col. Edward L. Fleming
Mr. Kirk C. Frederickson
Mr. Walter T. Grady
Mr. Kenneth J. Hagan, Jr.
Mr. Herbert F. Harrington
Mr. James E. Harris
Mr. Daniel D. Hollenbaugh
Mr. Nicholas C.G. Isaacs
Dr. Keiji Kawachi
Mr. John L. Labansky
Mr. Donald M. Layton
Mr. Robert S. Lipton, Esq.
Dr. Stan H. Lowy
Mr. Roderick A. Maclellan
Mr. Takeshi Makino
Mr. Evhen M. Mychalowycz
Mr. Jim C. Narramore
Mr. T. B. (Barney) O’Shea
Mr. Robert S. Petite
Mr. Philip G. Potts
Dr. Todd R. Quackenbush
Mr. Edward A. Richard
Mr. Neil M. Richard
Mr. Eric M. Rubin
Mr. F. Chris Sautter
Mr. Thomas W. Schaub
Dr. Perumal Shanthakumaran
Dr. Nithi Ti Sivaneri
Mr. Laurence M. Smail
Mr. T. B. (Barney) O’Shea
Mr. Ronald W. Tagg
Dr. Paul Taylor
Dr. Chee Tung
Mr. John W. Upton, Jr.
Mr. Thomas B. Whinfrey
Mr. Paul F. Whitten, Sr.
Dr. Yung H. Yu

Mr. Charles B. Weeks
Mr. G. Thomas White
Mr. Henry E. Wilson
Mr. Edward Wukowitz

1980
Mr. Kenneth A. Anderson
BGEN John C. Arick, USMC (Ret.)
Mr. Burton Dale Austin
Dr. Alfred O. Awani
Mr. David W. Baldwin
Mr. Thomas A. Barry
Mr. Chris L. Blanken
Mr. Sherwood A. Bresler
Mr. Joseph Coleman Sr.
Mr. Thomas E. Condon
Mr. David A. Conner
Mr. Rocco R. DiGenova
Mr. Robert V. Doggett, Jr.
MG Charles F. Drenz, (Ret.)
Mr. Edward G. Folks
Mr. John D. Foster
Dr. James A. Franklin
Mr. Roger G. Furgurson
Mr. Bernd L. Gmelin
Mr. Kevin Goldstein
Mr. Willie C. Hardwick
Mr. Carl L. Harris
Mr. Robert K. Heffley
Mr. Curtis J. Herrick, Jr.
Mr. Stephen C. Holup
Mr. James J. Howlett
Mr. Samuel Hurt
Mr. E. Jackson Johnson
Mr. Clifford Paul Karvinen
Mr. Jules G. Kish
Mr. Peter D. Klein
Mr. Howard Levy
Mr. Warren Lieberman
Mr. Bernard D. Mac Isaac
Mr. Ross P. Menger
Mr. Glenn M. Messemer
Mr. Ervin C. Nelson
Mr. Purdue Patel
Mr. Martin Peryea
Mr. Barry Pitkin
Mr. Bruce S. Place
Mr. John J. Schillings
Mr. Michael R. Smith
Mr. John Sobczak
Mr. Stephen R. Sullivan
Mr. Murray D. Sweet
Mr. Lawrence L. Trick
Mr. Bohdan Turczeniuk
Mr. Steve B. Wartenberg

1981
Mr. Henry A. Armstrong
Mr. Ashley Arney
Mr. Kenneth M. Bartie
Mr. James K. Bartlett
Mr. Newton Bell
Mr. Bob Bianco
Mr. William B. Blake
Dr. Dieter Braun
Mr. David B. Cale
Mr. George R. Carlson
Mr. Lloyd D. Corliss
Col. Jimmie A. Creech, USMC Ret.
Mr. Caesar Crogna

Mr. Peter J. Cross
Mr. Peter B. Curry
Dr. Joseph C. DeFranco P.E.
Dr. Rocco A. DiTaranto
Mr. Peter G. C. Dixon
Col Gary T. Downs, USA Ret.
Mr. Michael Farrell
Mr. Robert J. Flemming
Mr. Jurgen Giezen
Mr. Richard S. Golaszewski
Mr. David G. Harding
Mr. Richard Keith Jones
Mr. John W. Justice
Prof. Swaminathan Karunamoorthy
Mr. Robert C. Kelley
Mr. John Liu
Mr. James Martin
Mr. Robert H. Maskrey
Mr. David Matuska
Mr. Robert J. Meuleners
Mr. James C. Nietupski
Mr. C. Harry Parkinson
Dr. David R. Poling
Mr. George M. Powell
Dr. Patricia J. Robertson
Mr. Carl Robinson
Ms. Marybeth Rodriguez
Dr. Vernon J. Rossow
Dr. Shigeru Saito

Mr. Michael C. Savage
Mr. Mark W. Scott
Mr. Charles Fred Swats
Mr. Jack Tinkel

Col Neil S. Williamson III
Mr. John W. Yerger III
Mr. Colin Young

1982
Mr. Bimal Aponso
MG Joseph L. Bergantz, (Ret.)
Mr. Mark Betzina
Mr. George A. Bobula
Mr. James D. Brown
Mr. Roy A. Carlsen
Mr. Robert D. Chaplin
Dr. Wayland Chan
Mr. Ned A. Chase
Mr. John Cicia
Dr. John E. Cochran, Jr.
Mr. Walter E. Costlow
Dr. Eva Czajkowski
Mr. Brian DeBlasi
Mr. Daniel T. Deibler
Mr. Joseph B. Dierker, Sr.
Mr. Ralph B. D’Iorio, Jr.
Mr. Joseph D. Eisenberg
Mr. Bernhard Enenkl
Mr. Jeff Evans
Dr. William H. (Bud) Forster
Mr. Wesley Hains
Mr. Roy Hayes
Dr. Jerry P. Higman
Ms. Elizabeth Ann Hill
Dr. Dewey H. Hodges
Mr. Frank O. James
Mr. Chris Jaran
Mr. Michael Jenner
Mr. Frederick A. Kendrick
Mr. Franklin K. Kirsch
Mr. Robert Kufeld
Mr. Iwan Kusmarwanto
Mr. Kenneth Lauck
Dr. Joon Lim
Mr. Joseph C. Marlo
Mr. George G. Matthews
Mr. Robert McCafferty
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Dr. V.R. Murthy
Mr. Wataru Nishikawa
Mr. Peter N. Noell
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Dr. Brahmananda Panda
Mr. Thomas C. Parham, Jr.
Mr. Charles A. Parlier
Mr. Frederick W. Piasecki
Mr. James A. Ray
Professor Bryan Roberts
Mr. John L. Saboe
Ms. Barbara Sandall
SqnLdr Kenneth R. F. Sexton, Ret.
Mr. Gary P. Smith
Dr. Constantinos P. Sotiriou
Mr. Manning D. Stelzer
Mr. Scott R. Swinsick
Dr. Mark B. Tischler
Col. Bill Turner (Ret.)
Mr. D. J. Verzella
Mr. George G. Vissicchio
Mr. Michael E. Watts
Mr. Robert T. Weaver
LTC Byron F. West Jr., Ret.
Mr. Gary M. Wise
Dr. Gloria Yamauchi

1983
Mr. Mark R. Alber
Dr. Vaidyanathan Anand
Dr. Albert Brand
Mr. Robert H. Butler
Mr. Thomas A Chicoski
Mr. Kenneth S. Collinge
Mr. Frank Colucci
Mr. Stetson R. Cowan
Mr. Shawn Coyle
Mr. Frank Federici
Mr. Robert L. Fortenbaugh
Mr. R. Thomas Galloway
Mr. Samuel P. Garbo
Ms. Wendy J. Gross
Mr. Roger Hoffman
Mr. S. Michael Hudson
Col (Ret) Stephen Kee
Dr. Mostafa Kia
Mr. Knut Lande
Dr. Roger A. Lucheta
Dr. M. Bobby Mathew
Dr. Eric W. Nottorf
Mr. Thomas Perrotta
Dr. Ashish K. Sareen
Mr. Richard F. Spivey
Dr. Thomas L. Thompson
Mr. Makoto Uemura
Mr. Christopher Van Buiten
Mr. William A. Welsh

1984
Dr. Ramesh K. Agarwal
Mr. Ronald L. Alto
Mr. John E. Bate
Dr. Olivier A. Bauchau
Mr. Ronald Bentley
Mr. Gary M. Bishop
Dr. Francis X. Caradonna
Mr. Charles Louis Connor
Mr. Mark W. Davis
Mr. Stephen Dymott
Mr. David Ellis
Mr. Timothy Fox
Mr. Joachim Goldenberg
Ms. Susan Gorton
Mr. Kevin T. Gray
Eur Ing Jonathan C. Hamm
Mr. Robert Hansford
Mr. Charles B. Hogg
Mr. Randolph Huis
Mr. Matthew Kambrod
Mr. Norimichi Kawakami
Mr. Duane S. Kolstad
Mr. Glenn Lagace
Mr. Glen L. Lavender
Dr. Peter F. Lorber
Dr. Donald M. Maciejewski Esq.
Prof Dimitri Mavris
Mr. Bradley R. Miller
Mr. Alfred L. Mongillo Jr.
Dr. Suresh M. Moon
Mr. Lawrence P. Peduzzi
Mr. John H.T. Perera
Mr. Steven A. Satunro
Mr. Alan Schwartz
Mr. Michael L. Slack
Mr. Hoyt A. Stearns Jr.
Ms. Lori Ann Sucic
Mr. John Vorwald
Mr. Calvin Wachs
Prof Siegfried N. Wagner
Dr. Brian E. Wake
Mr. Brent Wallace
Dr. James Wang
Dr. James Wasson
Mr. Peter Thomas Wellby
COL Michelle F. Yarborough
Mr. Larry A. Young
Dr. Mithat Yu

1985
Prof. David E. H. Balmford
Mr. Dwight Balough
Mr. Edwin P. Birtwell
Mr. Charles Blankley
Dr. Akif O. Bolukbasi
Mr. Robert T. Brady
Mr. Kenneth J. Buckman
Mr. Matthew R. Cordner
Mr. Dennis W. Crowe
Mr. Lee Daniel
Mr. Robert Derham
Mr. Robert V. Dompka
Dr. Dimitri A. Dousis
Mr. Norman F. Egbert
Mr. William R. Ellis
Dr. Bernard Ferrier
Mr. Mel French

Mr. Kenneth J. Fuller
Mr. Kurt Goetzfried
Mr. Larry Groves
Mr. Joseph L. Hammond
Mr. Douglas Hoffman
Dr. Francis X. Hurley
Mr. Ronald D. Johnson
Mr. Lawrence Karjala
Dr. Yutaka Kondo
Mr. Terry J. Larchuk
Mr. Benton H. Lau
Mr. Ed Lethcoe
Mr. Michael Lupo
Mr. Paul J. Madej
Mr. John R. Mayo
Mr. David G. Mitchell
Mr. John G. Moffatt
Mr. Roland Mueller
COL James D. Mullen
Mr. Roger Olson
Mr. Stephen S. Osder
Mr. Barry E. Pickett
Ms. Susan H. Powell
Dr. Oswaldo Maximo Querin
Dr. R. Ganesh Rajagopalan
Mr. Eric C. Robeson
Mr. Daniel G. Rouppas
Dr. Lakshmi N. Sankar
Mr. Rocco Scenna
Mr. Jon C. Schuck
Ms. Mary Ann B. Skehan
Mr. Bruce E. Thompson
Mr. Bruce A. Wilhelm
COL William G. Yarborough

1986
Mr. Mani Abraham
Mr. Frank Adams
Mr. Trevor Archniel
Mr. William Bolian
Mr. Victor Briskin
Mr. Charles Buzzetti
Mr. Charles Clarke
Mr. Jose Dantas
Mr. Michele Ferneau
Mr. Malcom Foster
Mr. Robert Gladwell
Mr. Jeffrey Harding
Dr. Chengjian He
Mr. Herbert Hoefferle
Dr. A. Hopkins
Mr. Eric Jacobs
Ms. Theresa Juengst
Mr. Ken Kadezabek
Prof. John Leishman
Dr. John Leverton
Prof. Anastasios Lyrintzis
Mr. Thomas Maier
Mrs. Barbara McCown-McClintick
Mr. Allen McCoy
Ms. Holly Moore
Mr. Sidney Moszer
Mr. Leon Namiotcavage
Mr. Daniel Newman
Mr. G. Owsley
Mr. Graham Pay
Mr. J. Perschbacher
Mr. Philippe Roesch
Dr. Hossein-Ali Saberi
Mr. Arthur Samet
Mr. James Schetzel
Mr. Bernd Schwarze
Mr. Louis Scipioni
Mr. Jeffrey Semenza
Mr. Scott Smith
Dr. Lynn Snyder
Mr. Henning Strehlow
Dr. Hormoz Tadghighi
Dr. Marat Tishchenko
Dr. Michael Torok
Mr. Allen Twilling
Mr. Alan Vincent
Dr. Anthony Vizzini
Mr. Steven Webster
Mr. Mathew Whalley
Mr. Robert Wilkins
Mr. Randy Williams
Mr. Miechael Yablonski
Mr. Perry Ziegenbein
Mr. Kevin Zoghby

Mr. David Harvey
COL Gerald Hipp
Mr. John Hobby
Mr. Roger Hoh
Mr. Wolf-Dieter Kuhnl
Prof. Oh Joon Kwon
Mr. Darrell Liardon
Mr. John Lose
Dr. Yi Lu
Mr. Joseph Lyle
Mr. William Mahoney
Mr. James McClelland
Mr. Robert McClure
Mr. Leo Meslin
Dr. Tilden Mikel
Mr. David Miller
Mr. Raymond Nymeyer
Mr. Bruce Oestreich
Mr. Michael Pagliarini
Mr. Michael Parent
Mr. David Peakes
Mr. Jean Philippe
Mr. Pierre Rioux
Dr. August Savu
Mr. Dennis Schmickley
Mr. Michael Sciascia
Mr. Rickey Simmons
Prof. Ed Smith
LTCOL John Sparks
Prof. Shepard Stone
Dr. Roger Strawn
Mr. Albert Thompson
Dr. Stephen Turnour
Mr. Andrew Tustison
Mr. Eric Walliser
Mr. Alan Waterhouse
Mr. Douglas Weems
Mr. Shinichi Yoshida
Mr. Angelo Zuino

1987
Mr. Ashok Agnihotri
LCDR Bradley Baily
Dr. Harry Barnard
Mr. Robert Beggs
Mr. Earl Booth
Mr. Martin Bosse
Mr. J. Braswell
Mr. Joe Brownlee
Mr. Javier Camba
Mr. Somen Chowdhury
Mr. Richard Christ
COL Robert Crowe
Mr. Robert Fews
Mr. Don Friesen
Dr. Mark Fulton
Dr. Robert Funk
Prof. Ranjan Ganguli
Mr. Robert Grigsby
Prof. Peter Hamel
The Gold Circle Club

In 1977, the Board of the American Helicopter Society established The Gold Circle Club to honor individuals who have been Society members for at least 25 consecutive years. These members represent the pioneers and leaders of the helicopter technical community. The AHS is proud to recognize our Gold Circle members, listed below by the year in which they joined the Society.

*Note: Names that are italicized are members that have passed away while still members of our Society

1943
- Mr. Ralph P. Alex
- Mr. Stephen J. Chris
- Mr. Angelo A. Coronato
- Mr. James A. Gean
- Mr. Stanley Hiller, Jr.
- Mr. Edward F. Katzenberger
- Mr. Robert M. Kee
- Mr. Harold E. Lemont
- Mr. Ralph B. Lightfoot
- Mr. Chester D. Mayerson
- Mr. Michael A. Paradiso
- Mr. George Townsend
- Mr. Ken L. West
- Mr. Wayne Wiesner

1944
- Mr. Donnell W. Dutton
- Mr. Jerome B. Friedenberg
- Prof. Alfred Gessow
- Mr. F. N. Piasecki
- Mr. Ren Pierpoint
- Mr. Robert J. Sullivan
- Mr. Dimitry D. Viner

1945
- Mr. Glidden Doman
- Mr. Edmund L. "Skip" Eveleth
- Mr. Bartram Kelley
- Mr. Bernard Lindenbaum
- Mr. John P. Reeder
- Mr. Sergei I. Sikorsky

1946
- Mr. Miller A. Wachs

1947
- Mr. Jack M. Cherne
- Mr. Elmer S. Congdon
- Mr. Jan M. Drees
- Mr. Charles H. Kaman
- Mr. David H. Kaplan
- Mr. Edward T. Keast
- Mr. Will A. Kuipers
- Mr. Frederick C. Phillips
- Mr. James S. Ricklefs
- Prof. Wieslaw Z. Stepniewski

1948
- Mr. Joseph Stuart III
- Mr. Kenneth B. Amer
- Mr. Americo (Max) Bellard
- Mr. H. Warren Jacobs
- Mr. Eugene K. Liberator

1949
- Mr. H. E. Sawicki
- Mr. Albert R. Yackle

1950
- Mr. T. E. Dumont
- RADM Francis D. Foley
- Dr. Kurt Hohenemser
- MG John Klingenhagen Ret.
- Mr. C. Wes Moore

1951
- Mr. Walter W. Engelbart
- Mr. Frederic B. Gustafson
- Mr. Joseph Mallen
- Mr. Stanley Martin, Jr.
- Dr. Rene H. Miller
- Mr. Friedrich Von Doblhoff
- Mr. Hans Weichsel, Jr.
- Capt. Marvin V. Wingrove

1952
- Mr. Rodney W. Balke
- Mr. Frank J. Carlson, Jr.
- Mr. Edward S. Carter
- Mr. Wesley L. Cresap
Mr. Bruce A. Goodale
LCDR R. E. Goodspeed
Mr. George M. Hall
Mr. J. Ross Hunter
Mr. William E. Jennings
Mr. Mort Leib
Mr. Ray D. Leoni
Dr. Robert G. Loewy
Mr. Harry M. Lounsbury
Mr. Robert R. Lynn
Mr. John R. Mertens
Mr. Stuart J. Miller
Mr. Norman R. Oxhorn
Mr. Robert D. Powell, Jr.
Mr. Raymond W. Prouty
Mr. Godfrey A. Rockefeller
Mr. George L. Rodriguez
Mr. Mel Vague
Mr. Harold K. Wilson

1953
Mr. Albert P. Averill
Mr. Richard Gabel
Mr. Norman B. Gorenberg
Mr. Louis W. Hartwig
Mr. Leon Jacobson
Mr. Robert Jones
Mr. Leonard J. LaVassar
Mr. William L. McKeown
Mr. John D. Mimnaugh
Mr. William L. McKeown
Mr. Robert B. Peck
Mr. Robert R. Piper
Mr. Stephen D. Remington
Mr. Ben B. Rock
Mr. Robert J. Tapscott
Mr. Charles J. Trojahn
LTG Robert R. Williams Ret.

1954
Mr. Carl O. Albrecht
Mr. J. Curtis Barnes
MAJ Paul W. Bass Ret.
Dr. Gabriel D. Boehler
Mr. James T. Duffy
Mr. Evan A. Fradenburgh
Dr. Norman D. Ham
Mr. Robert E. Head
Dr. David S. Jenney
Mr. Hilliard L. Lubin
Mr. James R. Moran
Mr. Frank S. Okamoto
Mr. Harry B. Picken
Mr. Donald V. Shafer
Mr. Harry Sternfeld, Jr.
Mr. Edward Woll

1955
Mr. Peter J. Arcidiacono
Mr. Alex Berman
Mr. Richard Bumstead
Mr. David P. Chappell
Mr. George E. Curtin, Jr.
LTC Willis R. Kusy Ret.
Dr. Barnes W. McCormick, Jr.
Mr. Oscar L. Norman
Mr. Calvin V. Olshan
Mr. Earl Schneider
Mr. Donald R. Segner
Mr. Herbert H. Slaughter
Mr. Richard Sprinski
Mr. Rens H. Swan
Mr. Martin Vale
Mr. John P. Walsh
Mr. Kenneth G. Wernicke

1956
Mr. D. Edward Broman
Mr. John E. Burkam
Mr. Joseph P. Cosgrove
Mr. John M. Duhon
Mr. Lee H. Erb
Mr. John J. Fetsko
Col Joseph E. Givens USMC Ret.
Mr. Robin B. Gray
Mr. Thomas W. Griffith
Mr. James S. Hayden
Mr. Enoch M. Johnson, Jr.
Col Raymond E. Johnson, Ret.
Dr. Gordon B. McKay
Mr. Erwin P. Roeser
Mr. Henry C. Smyth, Jr.
Mr. Reinier J. Van der Harten
Mr. Theodore A. Wozniak
Mr. Ernest R Wright, Jr.
Mr. Robert Zincone

1957
Dr. Richard L. Bielawa
Mr. Frederick K. Bietsch
Mr. Michael C. Frengley
Mr. Knute Coates Hansen
Ms. Sally V. La Forge
Mr. John V. Leonard
Mr. John R. Olson
Mr. Ernst C. Schellhase
LTC John M. Slattery Ret.
Mr. George A. Smith
Baron W.F. Von Engelhardt
Dr. E. Roberts Wood
Mr. Victor A. Zaveruha

1958
Mr. Donald Armstrong  
Mr. Dean Earl Cooper  
LTC William P. Craddock Ret.  
Mr. Thomas F. Hanson  
Mr. Spero Jordanides  
Mr. James R. Neff  
Mr. Courtland D. Perkins  
Mr. Laren Pitcairn  
Mr. Anthony D. Rita, Jr.  
Mr. Arnold Robinson  
Mr. Michael S. Saboe  
Mr. John J. Schneider  
Mr. Fred L. Smith  
Dr. Dora D. Strother  

1959  
Mr. David M. Blake  
Mr. Robert L. Kaplan  
Mr. Peter G. Kappus  
Mr. Henry L. Kelley  
Mr. Anton J. Landgrebe  
Mr. Bayard T. McWilliams, P.E.  
Mr. James R. (Ron) Mecklin  
Mr. Isadore Senderoff  
Mr. Robert H. Spencer  
Mr. Watson H. Tanner  
Mr. Rodney K. Wernicke  

1960  
Mr. Walter N. Attebery  
Mr. Henry V. Borst  
Dr. Howard C. Curtiss, Jr.  
Mr. H. Kipling Edenborough  
Maj Fred W. Forbey USAF Ret.  
Mr. Franklin D. Harris  
Mr. William D. Harris  
LTC Jimmie S. Honaker  
Mr. Julian L. Jenkins, Jr.  
Mr. Alvin Kagan  
Dr. Andrew Z. Lemnios  
Mr. Robert L. McDaniel  
Mr. Robert A. Monteleone  
Mr. David C. Norman  
Mr. William F. Paul  
Mr. Frank Rixen  
Mr. George S. Schairer  
Mr. John J. Shapley  
Mr. Arthur F. Smith  
Mr. Serge Tapytkoff  
Mr. Rodney S. Taylor  
Mr. William W. Walls, Jr.  
Mr. John F. Ward  
Mr. John W. White  

1961  
Dr. Akira Azuma  
Mr. Paul J. Balf  
Mr. Richard L. Ballard  
Mr. William C. Barr  
Mr. Thomas H. Boyd, Jr.  
Mr. Richard C. Buyers  
Mr. Charles C. Crawford, Jr.  
COL William E. Crouch  
Mr. Edward J. Currier  
COL Charles R. Dunn  
Mr. Donald G. Ekquist  
Dr. Ing Vittorio Fiorini  
Mr. John A. Gaidelis  
Mr. Edward S. Hibyan  
Mr. Robert J. Huston  
Mr. Arnold E. Junker  
Mr. Andrew J. Mank  
Mr. Robert T. McIntyre  
Mr. Stanley Mills  
Mr. Norman E. Nelson  
Mr. Robert G. Orr  
Mr. Dimitri P. Papadakos  
Mr. Franklin D. Robinson  
Mr. John Shostak  
Mr. Paul L. Shultz  
Mr. George T. Singley, Jr.  
Mr. Robert H. Stroub  
CAPT William E. Walker  
Mr. Leon Wallerstein Jr.  
Mr. Richard P. White, Jr.  
Mr. Robert Wiesner  

1962  
Mr. Samuel E. Brodie  
Mr. Robert J. Campbell  
Dr. Richard M. Carlson  
Mr. Rodney L. Clark  
Mr. Cecil E. Covington  
Mr. E. C. Darlington  
Mr. John E. Duffy  
Mr. Peter A. Gilman  
Mr. Ralph E. Goodall  
Mr. Harry S. Groh  
Mr. Dieter H. Halff, Dipl.-Ing.  
Mr. Peter Hodson  
Mr. W. Euan Hooper  
Mr. Bruce F. Kay  
Col Howard E. Kessinger, Jr.  
Mr. Jaan Liiva  
Mr. Larry A. Meidell  
Mr. Arthur W. "Art" Moss  
Mr. Gary F. Rast  
Mr. James B. Rorke  
Mr. Frederick J. Silverio
Mr. Albert J. Sivahop
Mr. Gary N. Smith
Mr. Thomas W. Soter
Mr. Wyman A. Soule
Mr. Armand G. Stravato
Mr. Richard G. Stutz
Mr. Donald L. Swope
Mr. Paul W. von Hardenberg
Mr. Ralph E. Walsh

1963
Mr. Thomas Baldwin
Mr. Ernest L Hartman
Mr. Norman B. Hirsh
Mr. Andrew W. Kerr
Mr. Stanley P. Laskus
Mr. Richard B. Lewis, Il
Mr. Frank A. Molnar
COL Robert W. Newton
Mr. George Price
Mrs. Doris Renninger-Brell
Mr. James J. Sattenwhite
Mr. Edward I. Seto
Mr. Robert A. Stange
Mr. Carrol D. Wallace
Mr. Robert E. Warren
Mr. Jack L. Zimmerman
Mr. Herman Zubkoff

1964
Mr. Irving L. Ashkenas
LTC Vincent P. Bailey, Ret.
Mr. Wayne J. Barbini
Mr. Lawrence D. Barrett Jr.
Mr. Bruce B. Blake
Mr. William P. Brown
Mr. C. Hudson Carper, Jr.
Mr. John A. DeTore
Mr. Robert G. Ferry
Mr. Richard V. Gidner
Mr. Michael A. Gockel
LCDR Richard S. Gordon USN
Mr. William E. Hill
Mr. David L. Key
Mr. Paul R. Kopczynski
Mr. John A. Longobardi
Mr. Donald W. Loughran
Mr. Leonard J. Marchinski
Mr. William L. McKeown
Mr. O. K. Moore
Mr. Kurt Pfeiferer, Dipl.-Ing.
CAPT John M Quarterman USN
Mr. Jack G. Real
Mr. Archie T. Sherbert, Jr.
Mr. Malcolm F. Symonds
Mr. J. Charles Ziemba

1965
Capt Reynolds Beckwith Ret.
Mr. John T. Blaha
Mr. LeRoy T. Burrows
Dr. Raymond G. Carlson
Mr. Vincent F. Cremonese
LTCOL Donald A. Dalrymple, USMC Ret.
Mr. Edmund J. De Santis, Jr.
Mr. Daniel C. Dugan
Dr. John C. Erickson, Jr.
Mr. Troy M. Gaffey
Mr. David Lee Green
Mr. Frederick H. Immen
Mr. K. P. Jessurun
Mr. J. Ford Johnston
Mr. Nicholas C. Kailos
Mr. William A. Kuczynski
Mr. Herman I. MacDonald
Mr. Giffen A. Marr
Mr. John C. McKeown
Mr. Bruce L. McManus
Mr. William M. Meyer
Mr. William A. Nickels
Mr. Charles F. Niebanck
Mr. Clarence A. Patnode, Jr.
Mr. David A. Richardson
Dr. Peter Richter, Dipl.-Ing.
Mr. Henry G. Smith
Mr. Raymond G. Smith
Mr. John R. Somsel
Mr. David W. Thomas
Capt V. V. Utgoff
Mr. Richard Wasserman
Mr. Perry H. Young

1966
Mr. William D. Anderson
Mr. Joseph P. Cribbins
Dipl. Ing. Guenter O. Daske
Mr. Patrick J. Devereaux
Mr. James Gomez
Mr. Ronald E. Gormont
Mr. Frank J. Harla, Jr.
Mr. David J. Hodder
Mr. Paul C. Hollowell
Mr. John B. Horton
Mr. Robert D. Hubbard
Mr. Charles W. Hughes, Jr.
Mr. R. C. Hutson
Mr. James L. Irwin
Mr. David A. Krampitz
Mr. Wes G. Lematta
Mr. Robert J. London
LTG Thomas Miller, USMC Ret.
Mr. Pasquale (Pat) Perrotta
Mr. Cecil S. Richardson
Mr. Ronald F. Sakaki
Mr. Robin W. Sandford
Mr. David L. Sharpe
Cdr Frank L. Shelley USCG Ret.
Mr. George W. Sibert
Mr. William J. Snyder
Mr. Walter G. Sonneborn
Mr. Paul F. Yaggy
Mr. Ugo Zullo

1967
Mr. Ronald W. Anderson
Mr. Jim Connell
Mr. Woodrow L. Cook
Mr. John Dainiak
Mr. John M. Davis
Mr. Paul Domanovsky
Mr. Neal James Donaldson
Mr. Dennis E. Dura
Mr. Bernard L. R. Fry
Mr. Richard F. Frye, Jr.
Mr. Edwin Z. Gabriel
Mr. Gerald I. Gard, Jr.
Mr. Robert P. Guay
Mr. Harry H. Heyson
Mr. Steve Holuk
Mr. Horace P. Howell
Mr. Walter C. Joiner
Mr. Marcel Kretz
Mr. Arthur W. Linden
Mr. John J. Lucas
Mr. Otto H. Nowotny
Mr. James L. Potter
Mr. Joseph Shefrin
Mr. Harold E. Sherrieb
Mr. Maurice F. Sherry
Mr. Edward S. Spencer
MG Story C. Stevens Ret.
Mr. Thomas R. Stuelpnagel
Mr. Richard D. Szczepanski
Mr. Tommie L. Wood

1968
Mr. Andreas Aastad
Mr. Irving Alansky
Mr. Fred C. Battles PE
Mr. Richard L. Bennett
Mr. Russell Boocock
Mr. Robert K. Burgess
Mr. John S. Burks
Mr. Clem C. Countess
Mr. William J. Crawford, III
Mr. Albert J. Desrochers

1969
Mr. Harold Andrews
Mr. Dean C. Borgman
Mr. William G. Bousman
Mr. Robert B. Clifton
Mr. William R. Dodds
Mr. John W. Gill
Mr. John J. Justen
Mr. John A. Macrino
Mr. John D. Matherly, Jr.
Mr. Carl G. Matthys
Dr. William J. McCroskey
Mr. Gene P. Munson
Mr. Chester E. Neal
Mr. Robert Parkinson
Mr. Alfred J. Potthast
Dr. Fredric H. Schmitz
Mr. John H. Sherrr
Mr. John L. Shipley
Mr. David V. Shuter
Dr. Francis E. Spring, Jr.
Mr. L. M. (Mike) Stewart
Mr. Frank J. Tarzanin Jr.
Mr. David R. Woodley

1970
Mr. Charles N. Benshetler
CAPT Arne B. Bruflat
Mr. D. Luis Saenz De Pazos
Mr. Horst Dengler
Mr. Rene A. Desjardins
Mr. William J. Dixon, Jr.
Dr. Joseph J. Eisenhuth
Mr. Clarence H. Frick
Cdr Robert E. Hickle Ret.
Mr. Kenneth H. Landis  
Mr. Edward J. Leach  
Mr. Wayne R. Mantay  
Mr. Carl N. Milko  
Mr. Charles E. K. Morris, Jr  
Mr. Rene Mouille  
Mr. John R. Murphey  
Mr. James A. O’Malley, III  
Dr. S. Harry Robertson  
Mr. George T. Singley, III  
Dr. Roger L. Smith  
Mr. Stephen J. Soltis  
Dr. Irving C. Statler  
Mr. Andrew Tarc  
Mr. Goran A. Wallert  
Mr. Joseph B. Wilkerson  
Dr. Warren H. Young, Jr.

1971  
Mr. Edward E. Austin  
Mr. Donald E. Beck  
Mr. Robert H. Blackwell, Jr.  
Mr. Jack Cress  
Mr. Steven L. Fahrenkrog  
Dr. Peretz P. Friedmann  
Dr. C. Eugene Hammond  
Mr. Charles D. McCall  
Mr. Dennis P. McGuire  
Mr. Harold K. Reddick, Jr.  
Dr. Kenneth M. Rosen  
Mr. William T. Yeager, Jr.

1972  
Mr. George E. Anton  
Mr. John L. Beilman  
Mr. William B. Bigler, II  
Dr. Earl H. Dowell  
Mr. Paul F. Erny  
Mr. Frederick D. Freeman  
Dr. Gopal H. Gaonkar  
Mr. J. Colin Green  
Mr. Harry K. Harr  
LTC Wilbur C. Hogan III, Ret.  
Mr. Webb F. Joiner  
Mr. Robert J. King  
Mr. James S. Kirkwood, Jr.  
Mr. Gary R. Kohler  
MG Jerry B. Lauer Ret.  
Mr. Robert V. March  
Dr. Arthur F. Messiter  
Mr. John F. Morgenstern  
Dr. Dale M. Pitt  
Mr. Kenneth R. Reader  
Dr. Michael P. Scully  
Mr. Harold J. Sell  
Mr. Robert Sopher  

Mr. Tommy H. Thomason  
Mr. Martin L. Vukich  
COL Dean E. Wright, USA Ret.

1973  
Mr. James F. Altpater, Jr.  
Mr. Peter A. Aron  
Mr. David T. Balch  
Dr. Felton D. Bartlett, Jr.  
Mr. David Bevan  
Mr. Michael A. Bowes  
Mr. Alvin H. Burgemeister  
Mr. Philip Cooper  
Mr. James M. Davis  
Mr. T. Alan Egolf  
Mr. Samuel W. Ferguson, III  
Mr. Danny E. Good  
Mr. Milton J. Gustafson, Jr.  
Mr. Michael P. Hodges  
Mr. Gerald W. Irvine  
Mr. James Jenks  
Prof. Hae Kyong Lee  
Mr. Wen-Liu Miao  
Mr. Kevin W. Noonan  
Dr. David A. Peters  
Mr. Nolan B. Phillips  
Mr. Ernest J. Ratz  
Mr. Stephen R. Schmidt  
Mr. Allen Schoen  
Dr. John Shaw  
Mr. Ronald A. Shinn  
Mr. James D. R. Tonelli  
Dr. Sathy P. Viswanathan  
Dr. Clive G. Whittenbury

1974  
Mr. Gordon F. Acker  
Mr. John R. Alwang  
Captain John A. Cameron, CBE  
Ms. Elizabeth Z. Castillo  
Mr. John F. Ceccarelli  
Mr. Marinus De Jongh  
Mr. Gary J. de Simone  
Col Frederic M. Donohue, USAF Ret.  
Mr. David George  
Col Terry L. Gordy Ret.  
Mr. Arthur J. Gustafson, Jr.  
Mr. James H. Harse  
Dr. Henry E. Jones  
Mr. Kenneth R. Meyers  
Dr. Robert A. Ormiston  
Mr. David V. Pauling  
Mr. William A. Pleasants  
Mr. David A. Popelka  
Mr. Ernest G. Riesenfeld  
Mr. Harold J. Rosenstein
Mr. Louis J. Silverthorn
Mr. George S. Sipprell
Mr. Peter D. Talbot
Mr. Ted Trept
Mr. John C. Wang
LTC Grady W. Wilson, USA Ret.
Mr. Steven E. Zalesch

1975
Dr. Dev A. Banerjee
Mr. John T. Brieger
Mr. Ronald J. Caron
Dr. Sam T. Crews
Mr. James D. Cronkhite
Mr. William A. Decker
Mr. Stephen C. Ellis
Mr. Charles F. Evers
Mr. Joseph A. Fernandez
Mr. Derek S. Hart
Mr. Paul W. Hengel
Dr. Wayne Johnson
Dr. Sesi B.R. Kottapalli
Dr. Donald L. Kunz
Mr. Ken Lunn
Mr. Michael A. McVeigh
Dr. Simon J. Newman
Ms. Jeanne K. O'Connor
Mr. Michael J. Rinaker
Mr. Ronald G. Schlegel
Mr. Kurt E. Tessnow
Mr. George E. Tucker
CW4 John S. Tulloch, USA Ret.
Mr. John F. Zugschwert

1976
Mr. Aavo H. Anto
Mr. Rudolph W. Beckert
Mr. John A. Bulakowski
Dr. Inderjit Chopra
Mr. John H. Cline
Mr. James J. DiRienzo
Prof. George T. S. Done
Mr. David A. Douglass
Dr. Frank A. Dvorak
Mr. Michael J. Garsik
Mrs. Marva L. Grovey
Mr. John F. Hagen
Dr. Michael K. Hynes
Dr. Naohiro Iboshi
Mr. George E. Kondreck, Jr.
Mr. Roger W. Lacy
Mr. Emmett Lancaster
Mr. Larry S. Levine
Mr. Joseph J. Luszczek, Jr.
Dr. William H. Mason
Mr. Charles J. Matusovich
Mr. Richard F. Murray
Mr. Robert R. Oehlri
Mr. Yoshihiro Ozawa
Dr. Pradeep Raj
Mr. Peter S. Salookey
Mr. Evan P. Sampatacos
Mr. F. Milton Schramm
Dr. Daniel P. Schrage
Mr. Steven E. Zalesch
1977
Mr. Vaughan W. Askue
Mr. William A. Battey
Mr. Daumants Belte
Dr. John D. Berry
Mr. Dan G. Bjeletich
Mr. Stanley J. Briczinski
Dr. Jess Browning
Mr. D. Alan Caine
BG Samuel G. Cockerham, USA Ret.
Mr. Denton Delong
Col Rudolph D. Descoteau, Ret.
Mr. Mark E. Dreier
Mr. Larry C. Franzoi
Dr. Albert R. George
Mr. Anthony Head
Mr. R. W. Hester
Mr. F. Michael Holton
Mr. Mark W. John
Ms. Elizabeth Johnson
Col Emmett F. Knight
Cdr. Gary L. Kochert, USN Ret.
Mr. Bruno Lovera
Mr. Martin D. Maisel
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Mr. Gary E. Miller
Dr. Simon J. Newman
Mr. F. John Perry
Mr. Carl L. Peterson
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Mr. Walter Potthoff Jr.
Mr. George J. Purdy
Mr. Eddie L. Rogers
Mr. Ernest O. Rogers
Dr. Aviv Rosen
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LtCol Joseph H. Schmid
Dr. Chee Tung
Mr. John W. Upton, Jr.
Mr. Thomas B. Whinfrey
Mr. Paul F. Whitten, Sr.
Dr. Yung H. Yu

Mr. Charles B. Weeks
Mr. G. Thomas White
Mr. Henry E. Wilson
Mr. Edward Wukowitz

Dr. John Zuk

1980
Mr. Kenneth A. Anderson
BGEN John C. Arick, USMC (Ret.)
Mr. Burton Dale Austin
Dr. Alfred O. Awani
Mr. David W. Baldwin
Mr. Thomas A. Barry
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Mr. Sherwood A. Bresler
Mr. Joseph Coleman Sr.
Mr. Thomas E. Condon
Mr. David A. Conner
Mr. Rocco R. DiGenova
Mr. Robert V. Doggett, Jr.
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Mr. Robert K. Heffley
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Mr. James J. Howlett
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Mr. John J. Schillings
Mr. Michael R. Smith
Mr. John Sobczak
Mr. Stephen R. Sullivan
Mr. Murray D. Sweet
Mr. Lawrence L. Trick
Mr. Bohdan Turczeniuk
Mr. Steve B. Wartenberg

1981
Mr. Henry A. Armstrong
Mr. Ashley Arney
Mr. Kenneth M. Bartie
Mr. James K. Bartlett
Mr. Newton Bell
Mr. Bob Bianco
Mr. William B. Blake
Dr. Dieter Braun
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Mr. Michael Farrell
Mr. Robert J. Flemming
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Mr. Richard S. Golaszewski
Mr. David G. Harding
Mr. Richard Keith Jones
Mr. John W. Justice
Prof. Swaminathan Karunamoorthy
Mr. Robert C. Kelley
Mr. John Liu
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Dr. Mark E. Wasikowski
Col Neil S. Williamson III
Mr. John W. Yerger III
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1982
Mr. Bimal Aponso
MG Joseph L. Bergantz, (Ret.)
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Mr. Walter E. Costlow
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Mr. Daniel T. Deibler
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1983
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Dr. Mostafa Kia
Mr. Knut Lande
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Mr. Richard F. Spivey
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1984
Dr. Ramesh K. Agarwal
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Mr. John E. Bate
Dr. Olivier A. Bauchau
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Mr. Charles Louis Connor
Mr. Mark W. Davis
Mr. Stephen Dymott
Mr. David Ellis
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Mr. Joachim Goldenberg
Ms. Susan Gorton
Mr. Kevin T. Gray
Eur Ing Jonathan C. Hamm
Mr. Robert Hansford
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Mr. Randolph Huis
Mr. Matthew Kambrod
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Mr. Duane S. Kolstad
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Dr. Peter F. Lorber
Dr. Donald M. Maciejewski Esq.
Prof Dimitri Mavris
Mr. Bradley R. Miller
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Mr. John Vorwald
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Prof Siegfried N. Wagner
Dr. Brian E. Wake
Mr. Brent Wallace
Dr. James Wang
Dr. James Wasson
Mr. Peter Thomas Wellby
COL Michelle F. Yarborough
Mr. Larry A. Young
Dr. Mithat Yu

1985
Prof. David E. H. Balmford
Mr. Dwight Balough
Mr. Edwin P. Birtwell
Mr. Charles Blankley
Dr. Akif O. Bolukbasi
Mr. Robert T. Brady
Mr. Kenneth J. Buckman
Mr. Matthew R. Cordner
Mr. Dennis W. Crowe
Mr. Lee Daniel
Mr. Robert Derham
Mr. Robert V. Dompka
Dr. Dimitri A. Dousis
Mr. Norman F. Egbert
Mr. William R. Ellis
Dr. Bernard Ferrier
Mr. Mel French

Mr. Kenneth J. Fuller
Mr. Kurt Goetzfried
Mr. Larry Groves
Mr. Joseph L. Hammond
Mr. Douglas Hoffman
Dr. Francis X. Hurley
Mr. Ronald D. Johnson
Mr. Lawrence Karjala
Dr. Yutaka Kondo
Dr. David H. Laananen
Mr. Terry J. Larchuk
Mr. Benton H. Lau
Mr. Ed Lethcoe
Mr. Michael Lupo
Mr. Paul J. Madej
Mr. John R. Mayo
Mr. David G. Mitchell
Mr. John G. Moffatt
Mr. Roland Mueller
COL James D. Mullen
Mr. Roger Olson
Mr. Stephen S. Osder
Mr. Barry E. Pickett
Ms. Susan H. Powell
Dr. Osvaldo Maximo Querin
Dr. R. Ganesh Rajagopalan
Mr. Eric C. Robeson
Mr. Daniel G. Rouppas
Dr. Lakshmi N. Sankar
Mr. Rocco Scenna
Mr. Jon C. Schuck
Ms. Mary Ann B. Skehan
Mr. Bruce E. Thompson
Mr. Bruce A. Wilhelm
COL William G. Yarborough

1986
Mr. Mani Abraham
Mr. Frank Adams
Mr. Trevor Archnial
Mr. William Boian
Mr. Victor Briskin
Mr. Charles Buzzetti
Mr. Charles Clarke
Mr. Jose Dantas
Mr. Michele Ferneau
Mr. Malcom Foster
Mr. Robert Gladwell
Mr. Jeffrey Harding
Dr. Chengjian He
Mr. Herbert Hoefferle
Dr. A. Hopkins
Mr. Eric Jacobs
Ms. Theresa Juengst
Mr. Ken Kadezbek
Prof. John Leishman
Dr. John Leverton
Prof. Anastasios Lyrintzis
Mr. Thomas Maier
Mrs. Barbara McCown-McClintick
Mr. Allen McCoy
Ms. Holly Moore
Mr. Sidney Moszer
Mr. Leon Namiotcavage
Mr. Daniel Newman
Mr. G. Owsley
Mr. Graham Pay
Mr. J. Perschbacher
Mr. Philippe Roesch
Dr. Hossein-Ali Saberi
Mr. Arthur Samet
Mr. James Schetzel
Mr. Bernd Schwarz
Mr. Louis Scipioni
Mr. Jeffrey Semenza
Mr. Scott Smith
Dr. Lynn Snyder
Mr. Henning Strehlow
Dr. Hormoz Tadghighi
Dr. Marat Tishchenko
Dr. Michael Torok
Mr. Allen Twilling
Mr. Alan Vincent
Dr. Anthony Vizzini
Mr. Steven Webster
Mr. Mathew Whalley
Mr. Robert Wilkins
Mr. Randy Williams
Mr. Micahel Yablonski
Mr. Perry Ziegenbein
Mr. Kevin Zoghby

1987
Mr. Ashok Agnihotri
LCDR Bradley Baily
Dr. Harry Barnard
Mr. Robert Beggs
Mr. Earl Booth
Mr. Martin Bosse
Mr. J. Braswell
Mr. Joe Brownlee
Mr. Javier Camba
Mr. Somen Chowdhury
Mr. Richard Christ
COL Robert Crowe
Mr. Robert Fews
Mr. Don Friesen
Dr. Mark Fulton
Dr. Robert Funk
Prof. Ranjan Ganguli
Mr. Robert Grigsby
Prof. Peter Hamel
Mr. David Harvey
COL Gerald Hipp
Mr. John Hobby
Mr. Roger Hoh
Mr. Wolf-Dieter Kuhnl
Prof. Oh Joon Kwon
Mr. Darrell Liardon
Mr. John Lose
Dr. Yi Lu
Mr. Joseph Lyle
Mr. William Mahoney
Mr. James McClelland
Mr. Robert McClure
Mr. Leo Meslin
Dr. Tilden Mikel
Mr. David Miller
Mr. Raymond Nymeyer
Mr. Bruce Oestreich
Mr. Michael Pagliarini
Mr. Michael Parent
Mr. David Peakes
Mr. Jean Philippe
Mr. Pierre Rioux
Dr. August Savu
Mr. Dennis Schmickley
Mr. Michael Sciascia
Mr. Rickey Simmons
Prof. Ed Smith
Prof. Shepard Stone
Dr. Roger Strawn
Dr. Stephen Turnour
Mr. Andrew Tustison
Mr. Eric Walliser
Mr. Alan Waterhouse
Mr. Douglas Weems
Mr. Shinichi Yoshida
Mr. Angelo Zuino
In 1994 the Society established a Lifetime Member category. The distinction of becoming a lifetime member of the Society was only offered to those faithful individuals who are members of the Gold Circle Club and have been members for at least 25 consecutive years. We were overwhelmed by the number of members who wanted to be included in this membership category. The AHS is proud to recognize its lifetime members, listed below alphabetically, each of who receive a lifetime member pin and a special decal to apply to your membership card.

Mr. Peter A. Aron
Prof. Akira Azuma
Mr. Fred C. Battles PE
Dr. Andreas P. F. Bernhard
Dr. John D. Berry
Mr. Frederick K. Bietsch
Mr. Bruce B. Blake
Dr. Gabriel D. Boehler
Mr. William G. Bousman
Mr. John T. Brieger
Mr. Dean Carico
COL (Ret.) Waldo F. Carmona
Mr. William R. Chariton
Prof. Inderjit Chopra
Mr. Elmer S. Congdon
Mr. Jim Connell
LTC William R. Craddock Ret
Mr. Edward J. Currier
Mr. John Dainiak
Mr. John M. Davis
Mr. William R. Dodds
Col Charles R. Dunn, USAF (Ret.)
Mr. H. Kipling Edenborough
Mr. Samuel W. Ferguson III
Mr. Robert G. Ferry
Mr. M.E. Rhett Flater
Mr. Edward G. Folks
Prof. Peretz P. Friedmann
Mr. William H. Gates
Mr. Dieter H. Halff, Dipl.-Ing.
Mr. Harry K. Harr
Mr. James E. Harris
Dr. Wesley L. Harris
Mr. William D. Harris
Mr. Derek S. Hart
Mr. James S. Hayden
Mr. Robert E. Head
Mr. Curtis J. Herrick, Jr.
Dr. Jerry P. Higman
Mr. Paul W. Holt
Mr. K. P. Jessurun
Mr. John J. Justen
Mr. David H. Kaplan
Mr. David L. Key
Mr. Marcel Kretz
Prof. Donald Kunz
Mr. David Matuska

Mr. Dennis P. McGuire
Dr. Gordon B. McKay
Mr. Larry A. Meidell
Dr. Judah Milgram
Mr. O.K. Moore
Ms. Kelly M. Morger
Mr. Gene P. Munson
Col Robert W. Newton (Ret.)
Mr. William A. Nickels
Mr. James C. Nietupski
Mr. Leo Norman
Mr. Otto H. Nowotny
Mr. Frank S. Okamoto
Mr. Clarence A. Patnode Jr.
Dr. David A. Peters
Ms. Kitty Pope
Mr. James L. Potter
Capt. John M Quarterman USN
Dr. S. Harry Robertson
Mr. Franklin D. Robinson
Mr. Godfrey A. Rockefeller
Mr. James B. Ronke
Dr. Stanley G. Sadler
Mr. Edward I. Seto
Mr. John H. Sherrerr
Mr. Albert Sivahop
Dr. Clifford Smith
Mr. Henry G. Smith
Mr. Michael R. Smith
Mr. William J. Snyder
Mr. Edward S. Spencer
Dr. Francis E. Spring Jr.
Mr. Herbert H. Steinmann
Mr. Richard G. Stutz
Mr. Robert J. Tapscott
Dr. Marat Tishchenko
Dr. Anita L. Tracy
Mr. Lawrence L. Trick
Mr. Reinier J. Vander Harten
Mr. Paul W. von Hardenberg
Dr. Norman M. Wereley
Mr. Ken L. West
Mr. John W. Williams
LTC Grady W. Wilson, USA (Ret.)
Mr. Albert Winn
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Lifetime Membership Means
Never Having to Receive Another AHS Renewal Notice . . .

The distinction of becoming a lifetime member of the Society is only offered to those faithful individuals who have been members of the Society for at least 25 consecutive years. Lifetime membership in the AHS is offered to Gold Circle Members for $995.00 to U.S. Members and $1295.00 to International Members. Join the ranks of the distinguished individuals listed above.

If you want more information on becoming a Lifetime Member, please contact AHS headquarters at 703-684-6777, Fax 703-739-9279; Email: lmalleck@vtol.org
# AHS Individual Membership Application

To become an AHS member, please submit this form with your annual dues payment. Your membership will begin the day your payment is received and processed.

<table>
<thead>
<tr>
<th>AHS Annual Dues</th>
<th>United States</th>
<th>International Member*</th>
<th>Total</th>
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<tr>
<td>Regular Member</td>
<td>$65.00</td>
<td>$85.00</td>
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<tr>
<td>Regular Member Age 30 &amp; Under **</td>
<td>$40.00</td>
<td>$60.00</td>
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<td>Retired over 60 **</td>
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<td>Active Military</td>
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<td>Student Member</td>
<td>$25.00</td>
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<td>Journal of the AHS Print Only (optional)</td>
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<td>Journal of the AHS Online Only (optional)</td>
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<td>$70.00</td>
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<td>VFF Contribution-Voluntary</td>
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</tbody>
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*International Costs Include Mailing
**Birth date required

(To be eligible for student dues you must be a full-time student for the upcoming school year and include the name of your school. Students receiving full pay and allowances are not entitled to this rate.)

Name (Prefix, First, Middle Initial, Last): __________________________________________

Street Address: ________________________________________________________________

City, State, Country, Zip: ______________________________________________________

Telephone # (office/home): ______________________________ Fax: ______________________

Employer/College: ______________________________________________________________

Job Title: ________________________________________________________________

Birthdate (mm/dd/yyyy): ______________ Required for Retired over 60 and Age 30 & Under Membership

Email address: ______________________________________________________________

Applicable AHS Dues: $___________________ Sponsor: ______________________________

### Payment Information:

____ MasterCard  _____Visa  ______American Express  _____Check

Credit Card Number ______________________________ Exp. Date: ______________________

Applicant’s Signature __________________________________ Date: ____________________

**Send Checks to:**

AHS International
217 N. Washington Street
Alexandria, VA 22314 USA
AHS Corporate Membership Application

Become an AHS Corporate Member and Join Industry Leaders in Shaping the Future of Vertical Flight

Corporate Membership Classification (Please check one and enclose appropriate dues.)

- **Diamond Class:** Revenue Greater than $100 Million  
  □ Annual Dues $37,000  
  250 Representatives

- **Platinum Class:** Revenue Greater than $100 Million  
  □ Annual Dues $23,500  
  150 Representatives

- **Gold Class:** Revenue Greater than $100 Million  
  □ Annual Dues $18,250  
  100 Representatives

- **Class A:** Revenue Greater than $100 Million  
  □ Annual Dues $12,500  
  40 Representatives

- **Class B:** Revenue $50 Million - $100 Million  
  □ Annual Dues $6,250  
  30 Representatives

- **Class C:** Revenue $10 Million - $50 Million  
  □ Annual Dues $2,950  
  20 Representatives

- **Class D:** Revenue $1 Million - $10 Million  
  □ Annual Dues $1,250  
  15 Representatives

- **Class E:** Consulting Firms, Govt. Agencies, Assoc.  
  □ Annual Dues $500  
  10 Representatives

(Please supply information as you want it to appear in AHS published materials)

**Company Name:** ________________________________________________________________

**Corporate Mailing Address:** _____________________________________________________

City: __________________________ State: __________________________ Zip: _______________

**Country:** __________________________ Website: ________________________________

**Telephone:** __________________________ Fax: ________________________________

**Corporate Description:** Please provide a 100-300 word description of your company’s principal vertical flight activities. Include general information on products, services, and senior management personnel for listing in AHS published materials. NOTE: You may supply company description under separate cover.

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

Sponsored By (Individual) ______________________________________________________________

Attn.: Liz Malleck, Director of Membership

AHS International
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Class</th>
<th>Joined Year</th>
<th>Contact Details</th>
</tr>
</thead>
</table>
| Advanced Rotorcraft Technology, Inc. | E     | 1986        | Dr. Hossein-Ali Saberi  
Vice President  
Tel.: (650) 968-1464  
Email: saberi@flightlab.com |
| Aero Gear, Inc.                    | E     | 2010        | Mr. Lee Welch  
Director, Sales & Marketing  
Tel.: 860 688-0888 Ext. 113  
Email: welchl@aerogear.com |
| AgustaWestland (IT)                | B     | 1987        | Mr. Graziella Zaroli  
External Relations  
Tel.: 39 0331 229-957  
Email: graziella.zaroli@agustawestland.com |
| AgustaWestland North America       | A     | 1987        | Ms. Kimberly Piersig  
Community Relations Manager  
Tel.: 703 373-8000  
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| American Eurocopter                | A     | 2011        | Ms. Brenda Reuland  
V.P. Communications & Public Relations  
Tel. 972 641-3505  
Email: Brenda.reuland@eurocopterusa.com |
| Australian Army Systems Aviation Office | E     | 1987        | COL Robert (Rob) Crowe  
Commander  
Tel.: (61) 074-577-7800  
Email: robert.crowe@defence.gov.au |
| Australian Fleet Aviation Group    | E     | 2003        | APS4 Jennifer Hannan  
Staff Officer Coordinator  
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Email: jennifer.hannan@defence.gov.au |
| AVX Corporation                    | E     | 2007        | Ms. Jennifer Reinhard  
Office Manager  
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Email: Jennifer@AVXaircraft.com |
| Barry Controls Aerospace          | C     | 2004        | Mr. Neil O'Hara  
V.P. Sales & Marketing  
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| Bell Helicopter Textron, Canada    | A     | 1997        | Mr. Andrew Sayer  
Director, Light Helicopter Value Stream  
Tel.: (450) 971-6500 Ext. 2597  
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| Bell Helicopter Textron, Inc.      | A     | 2005        | Mr. Robert Hastings  
SVP, Communications  
Tel.: (817) 280-2650  
Email: rhastings@bh.com |
| Bell Helicopter Textron, India     | B     | 2012        | Mr. Scott Harris  
Staff Engineer, Globalization  
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Email: sharris@bh.com |
| The Boeing Company                 | A     | 1995        | Dr. Vicki Sholtes  
Senior Manager, Systems Engineering  
Tel.: (610) 591-2110  
Email: vicki.i.sholtes@boeing.com |
| Breeze-Eastern                     | D     | 1999        | Mr. Gary Olson  
Senior Vice President Marketing & Business Dev.  
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| Camber Corporation                 | D     | 2007        | Mr. Greg Oelberg  
Vice President & Manager  
Tel.: (256) 922-3710  
Email: goelberg@camber.com |
| CD-Adapco                          | D     | 2012        | Mr. Bryant Aliaga  
U.S. Trade Show Coordinator  
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<td>C.I.R.A.</td>
<td>D</td>
<td>1991</td>
<td>Mr. Antonio Visingardi</td>
<td>Research Scientist</td>
<td>(39) 0823-62-3333</td>
<td><a href="mailto:a.visingardi@cira.it">a.visingardi@cira.it</a></td>
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<td>CMC Electronics Inc.</td>
<td>C</td>
<td>2001</td>
<td>Ms. Josefa R. Lawson</td>
<td>Senior Coordinator - Exhibitions</td>
<td>(514) 748-3043</td>
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<td>Ms. Dawn Ponton</td>
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<td>Continuum Dynamics, Inc.</td>
<td>E</td>
<td>1992</td>
<td>Mr. Daniel A. Wachspress</td>
<td>Associate</td>
<td>(609) 538-0444 Ext. 114</td>
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<td>Eagle Aviation Technologies, Inc.</td>
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<td>Eaton Aerospace-Sensing &amp; Controls Div.</td>
<td>C</td>
<td>1982</td>
<td>Mr. Pat Birch</td>
<td>Customer Service Manager</td>
<td>610-522-4099 Ext. 4000</td>
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<td>Eurocopter Deutschland GmbH</td>
<td>A</td>
<td>1988</td>
<td>Dr. Arnd Dies</td>
<td>Manager Safety &amp; Reliability</td>
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<td>Fairchild Controls</td>
<td>D</td>
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<td>FlightSafety Intl. Simulation &amp; Systems Div</td>
<td>D</td>
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<td>Fuji Heavy Industries</td>
<td>C</td>
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<td>Mr. Takashi Hiramoto</td>
<td>Lead Rotary Wing Aircraft Eng. General Manager</td>
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<td>Groen Brothers Aviation,</td>
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<td>Marvel Manufacturing Co.</td>
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<td>Ms. Lisa Waite</td>
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<td>Optical Air Data Systems</td>
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<td>Dr. Beth Dakin</td>
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<td>Piasecki Aircraft Corp.</td>
<td>D</td>
<td>2002</td>
<td>Mr. Joe Cosgrove</td>
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<td>Polish Institute of Aviation</td>
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<td>Prof. Kazimierz Szymanski</td>
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<td>Pratt &amp; Whitney Canada</td>
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<td>2003</td>
<td>Mr. Nelson Connolly</td>
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<td>QinetiQ AeroStructures</td>
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<td>2009</td>
<td>Ms. Kerrie Ryan</td>
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<td>QUESTEC Innovations, LLC</td>
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<td>Rich Kooy</td>
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<td>Richard Mfg Co Inc.</td>
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<td>Mr. James Steponavich</td>
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<td>Robertson Fuel Systems</td>
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<td>Robinson Helicopter Co.</td>
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<td>Mr. Peter Riedl</td>
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<td>Rockwell-Collins</td>
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<td>Rolls-Royce Corporation</td>
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<td>Mr. Matt Haugk</td>
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Email: jimf@survice.com

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AHS membership is fueled by active chapter and individual interest in membership recruitment. The Society recognizes members and chapters dedicated to this growth through its various membership programs. These programs run from January 1st to December 31st.

**PRESIDENT’S CLUB:** Each member who sponsors ten or more members is accepted into the President’s Club, receives recognition in Vertiflite.

**25-MEMBER SPONSOR PROGRAM:** Each member who sponsors 25 or more members receives an AHS Executive Pen.

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**INDIVIDUAL SPONSOR CONTEST:** The member who sponsors the greatest number of new members during the contest year wins free registration for the individual and their spouse at the AHS Annual Forum. The winner also receives a certificate or plaque presented at the Annual Awards function.

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The Society is proud to honor the members of the President’s Club – these individuals who have sponsored ten or more new members.

*Note: Names that are italicized are members that have passed away while still members of our Society.

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Chapter Activation

When five or more persons within a potential Chapter area desire to activate a Chapter of AHS International, a petition should be submitted to AHS headquarters. This informal request should be signed by five (5) current AHS members, specify the geographic area to be covered by the new Chapter, and request activation details.

Upon receipt of the informal request, AHS headquarters shall furnish the petitioners with the following: 1) an alphabetical list bearing the name and address of all AHS members residing in the proposed Chapter area specified by the petitioners; 2) the AHS Members Guide providing current information on AHS activities and programs; and 3) a supply of membership applications.

On receipt of the above "Activation Kit" the petitioners should 1) establish a site and date for the initial activation meeting; 2) review the membership list and add the names of any non-members who are to be forwarded a copy of the initial meeting notice; 3) prepare a meeting notice to be distributed by AHS headquarters; 4) return the meeting notice and the membership list (with non-member additions) to the AHS headquarters at least one (1) month prior to the scheduled date of the activation meeting.

On receipt of the Activation Meeting Notice AHS headquarters will prepare and distribute it, to both members and non-members, to reach recipients at least three (3) weeks prior to the meeting.

At the initial Chapter meeting, the members and non-members present will: 1) conduct a pre-meeting membership recruitment action wherein those non-members in attendance will complete application forms and submit them with the appropriate dues to the Membership Chair pro tem; 2) elect Chapter Officers – a minimum of President, Secretary/Treasurer and Program/Membership Chair; 3) select an appropriate name for the Chapter; 4) establish the basic goals of the Chapter in accordance with the AHS Bylaws; 5) establish the frequency of the Chapter's meetings; and 6) establish the time and date for the next general meeting of the Chapter.

Following the initial Chapter Activation Meeting, the President will report the actions of the meeting to AHS headquarters (elected officers, etc.), the Membership Chair will forward the new members' applications received, and the Program Chair will begin preparations for the next Chapter Meetings (ensuring that the notices will arrive at AHS Headquarters for distribution at least three (3) weeks prior to the scheduled date of the meeting).
Chapter/Regional Election Report

This election report should be completed and returned to AHS Headquarters within two weeks of election results. The following officer titles are recommended. Please notify headquarters should there be any changes to your chapter officer listing during the year.

CHAPTER: ____________________________________________________________________________

PRESIDENT:

Name: ____________________________________________________________ Bus. Phone: ________________________
Address: __________________________________________________________ Email: _____________________________
Employer: ____________________________ Job Title: ____________________________

VICE PRESIDENT:

Name: ____________________________________________________________ Bus. Phone: ________________________
Address: __________________________________________________________ Email: _____________________________
Employer: ____________________________ Job Title: ____________________________

MEMBERSHIP CHAIR:

Name: ____________________________________________________________ Bus. Phone: ________________________
Address: __________________________________________________________ Email: _____________________________
Employer: ____________________________ Job Title: ____________________________

SECRETARY:

Name: ____________________________________________________________ Bus. Phone: ________________________
Address: __________________________________________________________ Email: _____________________________
Employer: ____________________________ Job Title: ____________________________

TREASURER:

Name: ____________________________________________________________ Bus. Phone: ________________________
Address: __________________________________________________________ Email: _____________________________
Employer: ____________________________ Job Title: ____________________________

PROGRAM CHAIR:

Name: ____________________________________________________________ Bus. Phone: ________________________
Address: __________________________________________________________ Email: _____________________________
Employer: ____________________________ Job Title: ____________________________

LICHTEN AWARD CHAIR:

Name: ____________________________________________________________ Bus. Phone: ________________________
Address: __________________________________________________________ Email: _____________________________
Employer: ____________________________ Job Title: ____________________________

Other officer titles may be added as necessary.
Outlined below are guidelines for Chapter Program Chairs

Congratulations on being elected, or continuing, as Program Chair for your chapter. The following information should assist you in your position.

One of the services that AHS headquarters provides for Chapters and Regions is the emailing or printing and distribution of meeting notices. Notices are intended to promote attendance at your local meetings and activities. In addition, we will supply administrative materials (letterhead, applications), novelty items (at a discount) for promotional use, and AHS publications. Please contact AHS headquarters to request any of these items.

Below are the guidelines for submission of your meeting notice to AHS headquarters.

**DEADLINES:** Email your meeting notices to Randy Johnson, AHS Information Resources Director, at rjohnson@vtol.org and copy Liz Malleck, Director of Membership at lmalleck@vtol.org. Notices should be sent at least three weeks prior to the event. We also strongly encourage all members to provide AHS headquarters with their email address. This enables us to efficiently and cost effectively deliver your chapter meeting notices. All members in your chapter or region who do not provide email addresses will receive their notices by mail. Please note that time must be allowed for the printing and mailing of these notices.

**CONTENT:** When preparing your notice do not forget the following items:

a. **WHO** is the speaker? Include a brief biography if possible.

b. **WHAT** is the topic or program? Include a synopsis of the presentations or agenda. Include the menu if lunch or dinner will be served and always the cost.

c. **WHEN** and **WHERE** is the meeting? Include the date, time, locations and facility where the meeting will be held. Directions and a map are helpful. If you plan a social hour, dinner and then speaker, list the appropriate time each activity will begin.

d. Name a **CONTACT** from whom to obtain tickets or additional information. Always include a contact(s) name, address and telephone number with area code, especially if you use AHS letterhead. Remember that not all your members live and work at your location.

e. Remember that AHS headquarters staff does not proof your meeting notice for typos or inaccuracies. Please be sure to proofread before you send it.

**DISTRIBUTION:** You can mail or email your meeting notice, although email is preferred by AHS headquarters. Please follow the deadlines listed above. We encourage you to email or call if you have any questions or concerns. We also appreciate a call or email to let us know your notice is on the way.
AHS Supply Request Form

Please provide the following items to be sent to the undersigned:

- Standard Letterhead: __________
- Annual Forum Letterhead: __________
- Standard Envelopes: __________
- Window Envelopes: __________
- Membership Applications: __________
- Board Letterhead: __________

**Promotional Items:** We offer discount prices on most AHS novelty items for chapter fund raisers, membership campaigns etc. For further information contact AHS headquarters at 703-684-6777 or staff@vtol.org.

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Telephone                                               Fax                                               Email:

PURCHASER MUST PAY SHIPPING COSTS; UPS SHIPPING IS AVAILABLE UPON REQUEST.
To: Chapter Presidents  
Regional Vice-Presidents  
Chapter Program Chair

FROM: AHS Headquarters

The Society strongly encourages Regions and Chapters to sponsor meetings and activities at the local level, as one of the major means of fulfilling its purpose to advance vertical flight technology and its application through technical exchange. At the same time, the Society must establish reasonable safety procedures and provide safeguards against possible claims which could arise from an incident involving helicopter/aircraft at an AHS sponsored event.

The Society’s insurance covers the general liability involved in AHS meetings and the activities of its Regions and chapters with the EXCEPTION of certain classes of aviation liability. An aviation related claim could arise whenever helicopters/aircraft are used in static display, aerial demonstrations, transportation to or from the event, or aircraft rides. Therefore, to ensure the adequate coverage of the AHS and its representatives the Board of Directors has adopted certain procedures which must be followed.

In any event involving the participation of aircraft (in any way) the AHS requires that an Indemnity Agreement (enclosed) be signed in advance by the aircraft operator and a representative of the local region or chapter sponsoring the event. The completed agreement and the related insurance certificate must be delivered to AHS headquarters at least 10 days prior to the event.

Please submit the signed original to AHS headquarters, send a signed copy to your Regional Vice President and keep a signed copy for your records.

Thank you for your cooperation and assistance in this matter. Should you have any questions, or require further information, please do not hesitate to contact the AHS Executive Director.

Enclosures
Whereas the American Helicopter Society International, Inc., (AHS) a non-profit organization, proposes to conduct a meeting on ______________________________________________________________________________ at ___________________________________________ and (Operator) _____________________________________ desires to participate by offering helicopter aircraft static displays and/or providing demonstrations and sightseeing flights:

NOW, THEREFORE, AHS and the Operator do hereby agree as follows:

1. At least ten days in advance of the meeting, the Operator shall inspect the meeting area and select (or approve) the site, including approach and departure paths over which flight operations will be conducted; (b) supply on the day of the meeting personnel properly trained to control all flight operations to and from the landing site; and (c) operate on the day of the meeting air worthy helicopter aircraft in a safe manner in conformance with all applicable Federal Aviation Administration rules and regulations (for events in the U.S. or the appropriate regulatory agency in other countries).

2. The Operator shall be responsible for the safety and protection of all persons in and near the landing site while it is participating in the meeting. The Operator shall maintain at the landing site an accurate manifest listing the names and current addresses of all persons aboard each helicopter flight.

3. The Operator shall make all necessary arrangements for fueling, refueling, maintenance and servicing of all equipment which it may use; provided, however, that the fueling and re-fueling of the helicopter shall not be performed at the meeting area or landing site.

4. At least 10 days in advance of the meeting, the Operator shall provide proof of insurance, in the form of a certificate of insurance, transmitted by facsimile (703-739-9279) and by mail to AHS (Attn: AHS Executive Director, 217. N. Washington Street, Alexandria, VA 22314) , from the Operator’s insurance broker, confirming $10 million combined coverage for aviation public liability and property damage and listing as additional insured the American Helicopter Society International, Inc., its officers, directors, employees and representatives and the owner of the landing site. The certificate of insurance shall include the make, model and registration number of each helicopter/aircraft participating in the event.

5. The Operator does hereby agree to indemnify and hold AHS, its directors, officers, employees and agents harmless from any and all claims, demands or causes of action, including attorneys’ fees and costs, arising out of either (a) the Operator’s negligence or any other tortuous conduct in the ownership, maintenance or use of its equipment which in any manner relates to the meeting or (b) in the conduct of its operations as described in paragraphs 1, 2 or 3 of this agreement.

6. This agreement constitutes the entire agreement made between AHS and the Operator and may not be modified or amended by any officer, employee or agent of either party.

Signed ________day of __________________, in the year of________.

AMERICAN HELICOPTER SOCIETY INTERNATIONAL, INC.

Signature:___________________________________________________ Title____________________________

OPERATOR

Signature:___________________________________________________ Title____________________________
Chapter Officers

Ensuring that the goals of the Society are attained requires a great deal of commitment and coordination among all members. This begins with the Board of Directors and the Headquarters staff and continues through each individual chapter of the Society.

AHS Chapters sponsor a wide range of informational and social events, enabling members to get to know one another and have a forum to exchange their knowledge and views. Volunteer chapter officers seldom receive adequate recognition for their hard work but the Society recognizes that they are furthering the professional goals of their peers and the continued development of the industry. The following is a list of AHS chapters and their officers.

**Arizona Chapter** — Represents Arizona

**President**
**Scott R. Swinsick**
The Boeing Company
Operations Research Analyst
scott.swinsick@boeing.com
(480) 206-9734

**Vice President**
**Dino A. Cerchie**
The Boeing Company
Program Manager
dino.a.cerchie@boeing.com
(480) 891-0223

**Secretary**
**Kendra L. Befort**
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Human Factors Engineer
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(480) 891-1979

**Treasurer**
**Alexander G. Harris**
BAE Systems, Land & Armaments, Mobility & Protection Systems
Program Manager
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(602) 643-7216

**Membership Chair**
**Kitty M. Pope**
Honeywell
Staff Engineer, Design Integration
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(602) 231-4782

**Technical Director**
**Friedrich Straub**
The Boeing Company
Boeing Technical Fellow
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(480) 891-7671

**Publicity Director**
**J. Kristin Little**
The Boeing Company
AH6 and Apache Crew Station
kristin.little@boeing.com
(480) 891-1246

**Program Director**
**Lou Scherer**
The Boeing Company
International Support Programs New Business Manger
gunguy64d@cox.net
(480) 891-0034

**Deputy Program Director**
**Andrew Augenstein**
The Boeing Company
Integration Engineer
andrewaugenstein@aol.com
(602) 793-6801

**Lichten Award Chair**
**Friedrich Straub**
The Boeing Company
Boeing Technical Fellow
friedrich.k.straub@boeing.com
(480) 891-7671

**Chapter Board Member**
**Larry F. Plaster**
The Boeing Company (Ret)
Manager, Apache Modernization Programs
lplaster3@gmail.com
(480) 313-3504

**Chapter Board Member**
**Ram D. Janakiram**
The Boeing Company
Manager
ram.d.janakiram@boeing.com
(480) 891-6057

**Chapter Board Member**
**William R. Charlton**
The Boeing Company
Chief Liaison Engineer
william.r.charlton-jr@boeing.com
(480) 891-1027
Chapter Board Member
John Schibler
The Boeing Company
Apache Chief Engineer
john.e.schibler@boeing.com
(480) 891-7171

Atlanta Chapter – Represents Georgia, zip codes 30000-30399

President
Marilyn J. Smith
Georgia Institute of Technology
Associate Professor
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(404) 894-3065

Vice President
Mark F. Costello
Georgia Institute of Technology
Sikorsky Associate Professor
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(404) 385-4303

Membership Chair
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Sikorsky Associate Professor
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(404) 385-4303

Treasurer
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(404) 894-3078

Speaker Coordinator
Mark F. Costello
Georgia Institute of Technology
Sikorsky Associate Professor
mark.costello@ae.gatech.edu
(404) 385-4303

Australia Chapter – Represents Australia

President
Arvind Sinha
Australian Department of Defense
Director of Engineering
arvind.sinha1@defence.gov.au
61-39-256-3673

Vice President
Hood, Robert
GKN Aerospace
Chief Designer
61-3-86450267

Treasurer
Robert Hood
GKN Aerospace
Chief Designer
61-3-86450267

Secretary
Subhash Sharma
Central Queensland University
Lecturer
61 74-970-7388

Cherry Point Chapter – Represents North Carolina

President
Anna Howard
North Carolina State University
Teaching Assistant Professor
annahoward@annahoward.com
(919) 513-4019

Connecticut Valley Chapter – Represents Connecticut, zip codes 06000-06299

President
Clifford Gunsallus
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Vice President of Engineering
gunsallusc-kac@kaman.com
(860) 286-4186

Treasurer
Curtis Orkin
Timken
Engineering Manager / Sr. Design Engineer Specialist
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(860) 645-4363

Membership Chair
Rocconella, Birgit
Kaman Aerospace Corporation
Engineering Specialist
birgit.roconella@kaman.com
(860) 243-6358

Dayton Chapter – Represents Indiana, Kentucky, Michigan, Ohio, and West Virginia

President
Raymond L. Robb
U.S. Air Force
Security Manager
whirlyguns@yahoo.com
(937) 904-6069
Vice President
Bruce D. Pursel
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Aerospace Engineer
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(937) 255-0797

Treasurer
William B. Blake
U.S. Air Force
Senior Aerospace Engineer
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(937) 255-6764

Secretary
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Program Manager
antony.susainathan@wpafb.af.mil
(937) 255-8130

Membership Chair
William B. Blake
U.S. Air Force
Senior Aerospace Engineer
william.blake2@wpafb.af.mil
(937) 255-6764

Empire State Chapter – Represents New York zip codes 12700-1499 and 12000-12399

President
Milan M. Dedek
BAE Systems
Director Rotorcraft Avionics
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(607) 770-2630

Vice President
Thomas Spura
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Senior Systems Engineer
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(607) 751-2008

Treasurer
Cheryl Kressly
Lockheed Martin Corporation
Program Manager
cheryl.l.kressly@lmco.com
(607) 751-2502

Membership Chair
Herbert Hoefferle
Sikorsky Aircraft Corporation
Director of Engineering
Herbert.Hoefferle@sikorsky.com
(607) 378-6383

Program Chair
Steven Colby
Lockheed Martin Corporation
Test Pilot and BD Analyst
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(607) 972-9883

Technical Chair
Chris Weaver
BAE Systems
Principal Systems Engineer
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(607) 770-2960

University Coordinator
Stephen Felter
Lockheed Martin Corporation
Systems Engineer
stephen.felter@lmco.com
(607) 751-4668

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* = Inactive Chapter
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<td>1333 - Empire State</td>
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<td>2320 - Philadelphia</td>
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<td>3414 - Federal City</td>
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<td>3435 - Hampton Roads</td>
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<td>3545 - Jake Fortner</td>
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<td>Region</td>
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<td>West Coast APO/FPO</td>
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*Inactive Chapters
<table>
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<th>Region</th>
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<tr>
<td>NORTHEAST</td>
<td>Stratford, Connecticut Valley, Empire State</td>
</tr>
<tr>
<td>MIDEAST</td>
<td>Philadelphia</td>
</tr>
<tr>
<td>SOUTHEAST</td>
<td>Federal City, Patuxent River, Hampton Roads, Cherry Point</td>
</tr>
<tr>
<td>SOUTHERN</td>
<td>Redstone, Atlanta, Jake Fortner</td>
</tr>
<tr>
<td>MIDWEST</td>
<td>Dayton, St. Louis</td>
</tr>
<tr>
<td>SOUTHWEST</td>
<td>Southwest</td>
</tr>
<tr>
<td>WESTERN</td>
<td>Arizona, Los Angeles, San Francisco</td>
</tr>
<tr>
<td>INTERNATIONAL</td>
<td>Australia, Germany, Montreal/Ottawa, Poland, Japan, Korea</td>
</tr>
</tbody>
</table>
AHS International is organized to accomplish the missions, objectives and goals as outlined in the current Bylaws. It is assumed that adequate revenue raising efforts will be undertaken to accomplish those missions, objectives and goals.

The following are the major revenue producing activities in the Society:

**International Level:**
- Membership dues: individual, educational and corporate.
- Annual Forum activities including exhibit sales, registration, sponsorship etc.
- Publications advertising and sales, i.e., *Vertiflite* and the *Journal of the AHS*.
- Publication and sale of technical papers, proceedings, etc.
- Sale of AHS novelty items, such as ties, caps, shirts, books, etc.
- Interest on reserve accounts.
- Revenue from special activities, meetings, etc.

**Regional Level:**
- Specialists' Meetings
- Regional social activities, picnics, etc.

**Chapter Level:**
- Monthly Chapter lunches, dinners, social activities, semi-technical activities.
- Chapter share of co-sponsored regional Specialists’ Meetings.

The basic philosophy of revenue production from all of these activities is to provide quality professional services to the membership at reasonable rates while providing only the surplus required to efficiently conduct projects in pursuit of the Society’s goals. The AHS is not a profit-oriented business.

In pursuit of this philosophy, all levels of management are encouraged to plan annual budgets and programs, and organize activities to provide for the revenue required to accomplish programmed projects.

**Reserves:**

Reserve liquid funds should be available at each level to cover one year’s activities, if major revenue producing activities are curtailed for some unforeseen reason. At the national level, this amounts to the revenues derived from Forum activities. At the regional and chapter levels this may be minimal, consistent with programmed annual activities. Both regions and chapters are encouraged to have some minimal reserve in an interest-bearing account to cover the bills for at least one luncheon or dinner activity or the proceeds from a specialists’ meeting or major social activity programmed for use in pursuit of Society objectives.

**Loans:**
It is not expected that Society activities will require commercial loans. Instead, if a chapter plans an activity that requires advance funds or needs funds for initial activation, etc., first, the region will be asked to provide these funds on an interest-free loan basis, repayable at the completion of the activity. If the region cannot meet the loan requirement, AHS headquarters will be requested and, with the approval of the Board, will provide an interest-free, repayable loan. The same applies for regional functions. AHS headquarters will not take out commercial loans without Board approval. Regional and chapter organizations shall not take out commercial loans.

**Society Finance Committee:**

The Society has a volunteer Finance Committee, made up of financially qualified appointees by the Society Secretary/Treasurer. This Committee reviews and approves the annual budget submitted by the Executive Director to the Board. The Committee also provides an annual finance report to the Board at the Forum Board meeting. It also provides investment guidance for reserve funds. Committee consultation is available to the regions and chapters.

**Audits:**

A full annual audit, by a qualified independent auditor, will be performed on the financial activities at the end of the fiscal year with a report submitted to the Finance Committee and Board. Audits are not required of the regional or chapter activities but may be accomplished at the discretion of the Regional VP or Chapter President. Annual financial reports will be submitted to AHS headquarters at the end of each fiscal year, no later than March 1st of each year.

**Income Tax:**

The AHS has three IRS identifiable activities. The national headquarters, as a separate entity, is a qualified not for profit organization under IRS Code 501(c)(6) – a “business league” – and files an annual return on IRS Form 990. [The Society submitted the necessary paperwork in May 2012 to be recognized as a 501(c)(6); this is expected to be approved by the end of 2012 or early 2013.] The Vertical Flight Foundation is qualified under IRS 501(c)(3) as a not-for-profit educational organization and files a separate annual return, also on Form 990. The third entity is the AHS Group Return entity that is made up of all subordinate elements and is also qualified as a 501(c)(6) not-for-profit organization. AHS headquarters collects the financial reports from the regions/chapters and files the AHS Group annual report.

To maintain the non-profit IRS qualification, excessive profits cannot be accumulated and profit making activities outside the scope of the AHS’s purposes must be minimized. The proceeds from revenue producing activities should not be returned to membership in a matter that can be construed as profit sharing or return investment, salary, etc., but should be used exclusively on non-profit qualified activities.

**Transfer of Funds and Accounts:**

At the end of his/her term of office, each regional VP or Chapter President, will be responsible for the orderly transfer and accounting for the funds of the respective chapter/region to his/her successor. Adequate files for financial accountability should be maintained for a minimum of three years.

**Suggested Uses of Excess Funds:**

It is difficult to project funds from events such as specialists’ meetings that depend heavily on unpredictable attendance. When a loss is incurred, the reserves can be applied.

When projected or excess surplus is realized, numerous Society-related activities are available for use of these funds. Examples include:
1. Designated contributions to the Vertical Flight Foundation (VFF) for annual scholarship awards.
2. Award of regional/chapter funded honorary memberships to qualified non-member personnel.
3. Support of the annual Lichten Competition with chapter/regional awards; pay for travel and lodging for regional competition.
4. Funding to support membership activities, and regional/chapter awards.
5. Support of local student activities. Fund paper competitions, student dinners at chapter meetings, etc.
6. Local activities to support increased helicopter acceptance/utilization. For example, sponsoring a two-day Emergency Medical Service symposium in conjunction with a local medical activity.
7. Activities to increase public acceptance and awareness of vertical flight aircraft, e.g. sponsorship of local activities where literature can be handed out.
8. AHS headquarters should be reimbursed by chapters sponsoring specialists’ meetings for direct marketing, printing, and postage costs incurred by the Society in supporting such meetings.
9. The chapters should be encouraged to voluntarily share some portion of the proceeds from financially successful meetings with AHS Headquarters and the Vertical Flight Foundation.
10. Chapters sponsoring financially successful specialists’ meetings are requested to provide 25% of all net proceeds after expenses for Specialists’ Meetings to AHS headquarters.

**Solicitation of Funding Support for Activities:**

The solicitation of support, either monetary or other, from suppliers and other entities involved in the general category of helicopter activities should be conducted in good taste and not in any manner that can be interpreted as “pressure” tactics or a compromise of purchaser/supplier relationships. Chapters and Regions should also be sensitive to the fact that many of the same companies are solicited for funds for both local activities and the Annual Forum.
Inter-Relationship Between AHS Headquarters and Regions/Chapters

AHS International is principally a volunteer organization to pursue the missions and objectives as published in the Bylaws.

AHS headquarters is staffed by the only full time Society employees. Its purpose and mission, relating to internal Society functions, include but are not limited to the following:

- Provide the overall day-to-day administration and management of the entire Society.
- Provide the administration, management and support of the Technical Council, technical committees, other committees, regions, chapters, corporate and individual members and the Board of Directors to allow these to function on a volunteer basis.
- Plan and execute the Annual Forum, to include advertising, exhibits, program and proceedings.
- Produce the Society's publications to include The Journal of the American Helicopter Society, Vertiflite, the Annual Forum Proceedings, Specialists’ Proceedings, technical papers and related publications.
- Maintain a technical paper library for the benefit of all AHS members, as well as on-line access to The Journal of the American Helicopter Society and other Society publications.
- Represent the AHS before all outside related organizations, i.e., AIAA, HAI, AIA, IHST, RWSI, etc., as well as government agencies and the media.
- Administer all legal and tax-related activities of the national, regional and chapter levels.
- Maintain a financial base to start and support, when required and approved by the Board, additional elements within the Society.
- Provide membership services, rosters, mailings, recruitment, etc. in support of regional/chapter activities.
- Implement the directions and guidance of the Board of Directors.
- Assist with AHS Specialists’ Meetings including marketing, program creation and registration.

The mission and purposes of all-volunteer regional level relating to intra-Society functions include but are not limited to the following:

- The regional Vice President represents the chapters and membership of that region on the Board of Directors of the AHS. The VP also implements the guidance of the Board within the regional area.
- Regions may or may not have a regional staff of volunteers, at the discretion of the regional VP.
- Within each region, at least one specialists’ meeting is expected to be conducted every three years in conjunction with an AHS committee(s). This meeting must be conducted in accordance with the technical guidelines provided in this Officers and Members Guide, and with the guidance and support of AHS headquarters.
- AHS headquarters may make a loan to support these regional activities fully repayable without interest immediately after the event.
• In May 2012, the AHS Board of Directors approved a new revenue sharing procedure for Specialists’ Meetings, instead of chapters reimbursing headquarters for various expenses. Instead, 25% of all net proceeds after expenses for Specialists’ Meetings should be provided to AHS headquarters for its general fund. (This is not mandatory, but all Chapters are urged to do so in order to support a healthy AHS.) In addition, subject to the spending plans and the affordability of doing so, chapters and regions are encouraged to provide funds to headquarters whenever possible.

• Funds within the regional treasury may be utilized to support regional activities in pursuit of AHS objectives such as the annual Lichten competition, human-powered helicopter development, recruiting membership, starting new chapters, student activities, etc.

• Charges for specialists’ meetings should be kept to a minimum for members, but pay all expenses of the meeting and allow for a surplus adequate to conduct regional activities for the period between specialists’ meetings.

• All regional activities that impact beyond the geographic boundaries of the region, such as specialists’ meetings, require approval of the Board of Directors.

The mission and purposes of all-volunteer chapter relating to intra-Society functions include, but are not limited to, the following:

• Chapters will be organized wherever the membership will support its objectives.

• Normally, initial funding requirements will be provided by the regional treasury. AHS headquarters may support on a loan basis or by a grant.

• Chapter meetings addressing subjects pertinent to the AHS objectives are encouraged on a monthly basis, less the three summer months. Other activities, limited to the support of the Society objectives, are encouraged.

• Activities beyond the chapter’s geographical area require the regional vice president’s approval.

• Charges for chapters’ activities will be consistent with providing adequate surplus to address future expenditures in pursuit of Society goals, provided that such charges are kept to the minimum expenses for members.
Chapter/Regional Treasury Guidelines

Outlined below are guidelines for chapter and regional treasurers.

AHS is considered by the U.S. Internal Revenue Service (IRS) as an “Organization Exempt from Income Tax” under Section 501(c)(6). To maintain this status, it is necessary for AHS chapters and regions to comply with the chapter/regional treasury guidelines.

1. Each chapter and region must keep a complete, but simple set of books (a spreadsheet is adequate) showing revenues, expenses, and balances at the end of a fiscal year. All funds received by a chapter or region should be deposited and all expenses paid by check in order to insure a proper accounting trail. Dinner and luncheon costs should not be paid from undeposited proceeds from ticket sales. Below are workable definitions of some accounting terms for your information:

   **Gross Revenue:** All funds received by the chapter or region, regardless of source or purpose. [Contributions of service or products, such as promotional items received by a chapter or region would not be included in Gross Revenue.]

   **Gross Expense:** All funds spent by the chapter or region for any purpose.

   **Net Position (Positive):** Excess of Gross Revenue over Gross Expense.

   **Net Position (Negative):** Excess of Gross Expense over Gross Revenue.

   **Revenues (Examples):** Contributions, Dinner/Luncheon Receipts, Cash Bar Receipts, Sales of Publications, Interest, etc.

   **Expenses (Examples):** Dinner/Luncheon Costs, Bar Costs, Contributions, etc.

2. Since the fiscal year of the Society is January 1 to December 31, the Society requests that each chapter and region record their finances on a fiscal year of January 1 to December 31 to be in accordance with national fiscal policies.

3. The Society recognizes a distinction between regional and chapter activities, and, thus the finances pertaining to each should be handled separately, i.e. the finances of specialists’ meetings sponsored by a region should not be handled through a chapter account, but, rather, the region should establish an account for the purpose of handling the finances of the specialist meeting. The same applies to regional events, such as golf tournaments, etc.

4. Each chapter and region should perform a simple “self audit” by a panel of chapter or regional members annually.

5. Following the close of the fiscal year of December 31, each chapter and region should file a fiscal report with the AHS headquarters showing revenues, expenses, and net position for the fiscal year (see the Chapter/Region Fiscal Report on the following page). All chapters and regions should file fiscal reports WHETHER OR NOT there has been any fiscal activity.

If you have any questions on these guidelines, please contact AHS headquarters at 703-684-6777.
# AHS Chapter Region Fiscal Report

*Cumulative Statement of Revenues and Expenses for Fiscal Year Ending December 31*

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<td>TOTAL REVENUES</td>
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<tr>
<td>Total Expenses</td>
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</tr>
<tr>
<td>NET AS OF December 31, _____ (Bank Balance)</td>
<td>$ ________</td>
</tr>
</tbody>
</table>

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**Chapter/Region Name**

**Date**

**President’s Signature (Regional VP if Region)**

**Date**

**Treasurer’s Signature (Not applicable for Region)**

**Date**

Please return one copy to AHS Headquarters 217 North Washington Street, Alexandria, Virginia 22314-2538. Tel: 703-684-6777, Fax: 703-739-9279. Return one copy to your Regional Vice President and keep one copy for your chapter records.

*PLEASE RETURN THIS FORM BY MARCH 1!*
Education Committee Bylaws

Purpose: To recommend policy, plan, promote and coordinate activities and serve as a focal point for educational matters of interest to the Society including secondary, higher and continuing education.

Membership: The Committee shall consist of at least seven members, but no more than eleven. At least four of the members shall be from the academic community with the remaining members representing industry and government. Terms of office shall be two years with a maximum of two consecutive terms allowed.

Officers: The Chair of the Committee will be appointed by the Technical Director for a two year term which begins July 1st. The seated Chair will provide recommendations for his or her replacement to the Technical Director. The Chair of the Committee will be selected from the academic members. The Vice Chair will be appointed by the Chair of the Committee for a two year term. The Vice Chair will normally be selected from industry or from government but may also be from the academic community. The Chair of the Committee reports to the Technical Director of the AHS and serves on the Technical Council.

Responsibilities and Duties: The Committee shall:

- Provide educational materials, speakers and other resources to enhance and support educational activities.
- Establish and coordinate mechanisms for recognizing outstanding educational efforts relating to vertical lift.
- Provide a source of information on academic programs offering rotary-wing courses or programs.
- Establish and coordinate national student activities.
- Provide a source of career information including opportunities for permanent, co-op and summer employment.
- Promote educational and research information and personnel exchanges between industry, government and academia.
- Establish permanent ad-hoc subcommittees as needed to accomplish specific tasks related to the educational needs of the profession.
- The Committee will report to the Technical Director of the AHS. The Committee Chair will submit an activities report to the Technical Director for the Technical Council meetings and, when appropriate, the Chair of the Committee or his or her designee will make oral reports to the Board.
- All ad-hoc committees or subcommittees will be formed and approved in accordance with the procedures in the AHS Technical Staff/Committees Operating Guidelines.
Education Committee 2012

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Sikorsky Associate Professor
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44-151-749-4800 Ext. 4859
Education Committee Bylaws

Purpose: To recommend policy, plan, promote and coordinate activities and serve as a focal point for educational matters of interest to the Society including secondary, higher and continuing education.

Membership: The Committee shall consist of at least seven members, but no more than eleven. At least four of the members shall be from the academic community with the remaining members representing industry and government. Terms of office shall be two years with a maximum of two consecutive terms allowed.

Officers: The Chair of the Committee will be appointed by the Technical Director for a two year term which begins July 1st. The seated Chair will provide recommendations for his or her replacement to the Technical Director. The Chair of the Committee will be selected from the academic members. The Vice Chair will be appointed by the Chair of the Committee for a two year term. The Vice Chair will normally be selected from industry or from government but may also be from the academic community. The Chair of the Committee reports to the Technical Director of the AHS and serves on the Technical Council.

Responsibilities and Duties: The Committee shall:
- Provide educational materials, speakers and other resources to enhance and support educational activities.
- Establish and coordinate mechanisms for recognizing outstanding educational efforts relating to vertical lift.
- Provide a source of information on academic programs offering rotary-wing courses or programs.
- Establish and coordinate national student activities.
- Provide a source of career information including opportunities for permanent, co-op and summer employment.
- Promote educational and research information and personnel exchanges between industry, government and academia.
- Establish permanent ad-hoc subcommittees as needed to accomplish specific tasks related to the educational needs of the profession.
- The Committee will report to the Technical Director of the AHS. The Committee Chair will submit an activities report to the Technical Director for the Technical Council meetings and, when appropriate, the Chair of the Committee or his or her designee will make oral reports to the Board.
- All ad-hoc committees or subcommittees will be formed and approved in accordance with the procedures in the AHS Technical Staff/Committees Operating Guidelines.
**Chair**
Prof Ed Smith  
Penn State University  
Telephone: 814 863-0966  
Fax: 814 865-7092  
Email: ecs5@psu.edu

**Members**

**Dr. Carlo Luigi Bottasso**  
Politecnico di Milano  
Telephone: 39 022 399 8315  
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**Prof. Inderjit Chopra**  
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Email: chopra@umd.edu

**Prof. Peretz P. Friedmann**  
University of Michigan  
Telephone: 734-763-2354  
Fax: 734-763-0578  
Email: peretzf@umich.edu

**Ms. Susan A. Gorton**  
NASA Langley Research Center  
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Email: susan.a.gorton@nasa.gov

**Dr. Nikhil Koratkar**  
Rensselaer Polytechnic Institute  
Telephone: 518 276 2630  
Fax: 518 276 2623  
Email: koratn@rpi.edu

**Prof. Donald L. Kunz**  
Air Force Institute of Technology  
Telephone: 937 255-3636 ext. 4548  
Fax: 937 656-7621  
Email: donald.kunz@afit.edu

**Prof. Robert G. Loewy**  
Georgia Institute of Technology  
Telephone: (404) 894-3002  
Fax: (404) 894-2760  
Email: robert.loewy@ae.gatech.edu

**Mr. Michael A. (Tony) McVeigh**  
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Fax: 610 591-8022  
Email: michael.a.mcveigh@boeing.com

**Mr. Daniel I. Newman**  
Telephone: 703 577-6812  
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**Dr. Gareth D. Padfield**  
The University of Liverpool  
Telephone: (44) 151 749-4800/4859

**Prof. Aviv Rosen**  
Israel Institute of Technology  
Telephone: (972) 4-8292711  
Fax: (972) 4-8231848  
Email: rosen@aerodyne.technion.ac.il

**Dr. Michael J. Rutkowski**  
U.S. Army Aeroflightdynamics Directorate  
Telephone: 650 604-3749  
Fax: 650 604-2003  
Email: michael.j.rutkowski@us.army.mil

**Mr. Walter G. Sonneborn**  
Consultant  
Telephone: (817)280-2107  
Fax: (817)278-0461  
Email: wsonneborn@verizon.net

**Dr. Bob Wood**  
Naval Postgraduate School  
Telephone: 831 655-0559  
Fax: 831 656-7884  
Email: helo609@comcast.net

**Honorary Members**

**Mr. Anton (Jack) Landgrebe**  
Retired  
Telephone: 860-644-0207  
Email: antonjland@aol.com

**Dr. Barnes W. McCormick Jr.**  
Pennsylvania State University  
Telephone: (814) 863-0602  
Fax: (814)865-7092  
Email: bwmaer@engr.psu.edu

**Mr. Raymond W. Prouty**  
Consultant  
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Email: rayprouty@aol.com

**Dr. Yung Yu**  
Konkuk University  
Telephone: (82) 2 2049 6095  
Email: yhoon@konkuk.ac.kr
<table>
<thead>
<tr>
<th>Institution</th>
<th>Joined:</th>
<th>Phone/Email Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Force Institute of Technology</td>
<td>2003</td>
<td>Prof. Donald L. Kunz&lt;br&gt;Telephone: 937-255-3636 ext. 4548&lt;br&gt;Fax: 937-656-7621&lt;br&gt;Email: <a href="mailto:donald.kunz@afit.edu">donald.kunz@afit.edu</a></td>
</tr>
<tr>
<td>Boston University</td>
<td>1997</td>
<td>Prof. Sheryl Grace&lt;br&gt;Telephone: (617) 353-7364&lt;br&gt;Fax: (617) 353-5866&lt;br&gt;Email: <a href="mailto:sgrace@bu.edu">sgrace@bu.edu</a></td>
</tr>
<tr>
<td>Drexel University</td>
<td>2010</td>
<td>Dr. Peter J. Franks&lt;br&gt;Telephone: (215) 895-2185&lt;br&gt;Email: <a href="mailto:pjf28@drexel.edu">pjf28@drexel.edu</a></td>
</tr>
<tr>
<td>Georgia Institute of Technology</td>
<td>1996</td>
<td>Dr. Mark F. Costello&lt;br&gt;Telephone: (404) 385-4303&lt;br&gt;Email: <a href="mailto:mark.costello@ae.gatech.edu">mark.costello@ae.gatech.edu</a></td>
</tr>
<tr>
<td>Georgia Tech Research Institute</td>
<td>2005</td>
<td>Dr. Marilyn J Smith&lt;br&gt;Telephone: (404) 894-3065&lt;br&gt;Fax: (404) 894-2760&lt;br&gt;Email: <a href="mailto:marilyn.smith@ae.gatech.edu">marilyn.smith@ae.gatech.edu</a></td>
</tr>
<tr>
<td>Igor Sikorsky Hist. Archives, Inc.</td>
<td>2005</td>
<td>Mr. Daniel Libertino&lt;br&gt;Telephone: (203) 386-4356&lt;br&gt;Email: <a href="mailto:iisha@snet.net">iisha@snet.net</a></td>
</tr>
<tr>
<td>Indian Institute of Science</td>
<td>1987</td>
<td>Prof. Ranjan Ganguli&lt;br&gt;Telephone: (91) 080 2293-2416&lt;br&gt;Fax: (91) 080-2360-0134&lt;br&gt;Email: <a href="mailto:ganguli@aero.iisc.ernet.in">ganguli@aero.iisc.ernet.in</a></td>
</tr>
<tr>
<td>Iowa State University</td>
<td>1985</td>
<td>Dr. R. Ganesh Rajagopalan&lt;br&gt;Telephone: (515) 294-6796&lt;br&gt;Fax: (515) 294-3262&lt;br&gt;Email: <a href="mailto:rajagopa@iastate.edu">rajagopa@iastate.edu</a></td>
</tr>
<tr>
<td>Mississippi State University</td>
<td>1987</td>
<td>Library Serials&lt;br&gt;Telephone: (601) 325-3060</td>
</tr>
<tr>
<td>Nanjing University, Aero &amp; Astro</td>
<td>1998</td>
<td>Prof. Jin Quanyuan&lt;br&gt;Telephone: (86) 25-489-1458&lt;br&gt;Fax: (86) 25-449-8069&lt;br&gt;Email: <a href="mailto:icedao@nuaa.edu.cn">icedao@nuaa.edu.cn</a></td>
</tr>
<tr>
<td>National Defense Academy</td>
<td>1976</td>
<td>Dr. Naohiro Iboshi&lt;br&gt;Telephone: (81) 46-841-3810&lt;br&gt;Fax: (81) 46-844-5904&lt;br&gt;Email: <a href="mailto:iboshi@cc.nda.ac.jp">iboshi@cc.nda.ac.jp</a></td>
</tr>
<tr>
<td>Pennsylvania State University</td>
<td>1976</td>
<td>Dr. Edward Smith&lt;br&gt;Telephone: (814) 863-0966&lt;br&gt;Fax: (814) 865-7092&lt;br&gt;Email: <a href="mailto:ecs5@psu.edu">ecs5@psu.edu</a></td>
</tr>
<tr>
<td>Princeton University</td>
<td>1978</td>
<td>Ms. Heidi Fisher&lt;br&gt;Telephone: (800) 633-6088&lt;br&gt;Fax: (205) 991-1479&lt;br&gt;Email: <a href="mailto:pers@princeton.edu">pers@princeton.edu</a></td>
</tr>
<tr>
<td>St. Louis University</td>
<td>2001</td>
<td>Mr. Edgar Thomas&lt;br&gt;Telephone: 314 977 3113&lt;br&gt;Email: <a href="mailto:Thomasea@slu.edu">Thomasea@slu.edu</a></td>
</tr>
<tr>
<td>U.S. Army Aviation Center</td>
<td>1985</td>
<td>Aviation Tech Library&lt;br&gt;Telephone: (334) 255-3891&lt;br&gt;Fax: (334) 255-2838&lt;br&gt;Email: <a href="mailto:KennedyD@Rucker.army.mil">KennedyD@Rucker.army.mil</a></td>
</tr>
<tr>
<td>UCLA</td>
<td>1996</td>
<td>Ms. Lynn Briance&lt;br&gt;Telephone: (310) 206-7952&lt;br&gt;Fax: (310) 206-9872&lt;br&gt;Email: <a href="mailto:Lbriance@library.ucla.edu">Lbriance@library.ucla.edu</a></td>
</tr>
<tr>
<td>University of Alabama, Huntsville</td>
<td>2005</td>
<td>Ms. Sue K. O’Brien&lt;br&gt;Telephone: 256.824-6133&lt;br&gt;Fax: (256) 824-6971&lt;br&gt;Email: <a href="mailto:obriens@uah.edu">obriens@uah.edu</a></td>
</tr>
<tr>
<td>University</td>
<td>Joined</td>
<td>Contact Details</td>
</tr>
<tr>
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<td>----------</td>
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</tr>
</tbody>
</table>
| University of Bristol                  | 1990     | Serials Arts & Social Sciences Library  
Telephone: (44) 0117-928-8005  
Fax: (44) 0117-925-5334  
Email: lib-serials@bristol.ac.uk |
| University of Colorado                  | 1998     | Ms. Linda Helgoth  
Telephone: 303 492-7992  
Fax: 303 492-0494  
Email: linda.helgoth@colorado.edu |
| University of Maryland                  | 1978     | Dr. Inderjit Chopra  
Telephone: (301) 405-1122  
Fax: (301) 314-9001  
Email: chopra@eng.umd.edu |
| University of Michigan                  | 2001     | Prof. Peretz P. Friedmann  
Telephone: (734) 763-2354  
Fax: (734) 763-0578  
Email: peretzf@umich.edu |
| University of Quebec at Chicoutimi      | 2007     | Mr. Jean Perron  
Telephone: (418) 545-5011 ext. 5650  
Email: Jean_Perron@uqac.ca |
| University of Southampton              | 1977     | Dr. Simon J. Newman  
Telephone: (44)1703-592301  
Fax: (44) 2380-593058  
Email: sjn1@soton.ac.uk |
| University Tennessee Space Inst. Library | 1997     |  
Telephone: (931) 393-7316  
Fax: (931)393-7518 |
| Vienna Institute of Technology         | 2008     | Prof Michael Weigand  
Telephone: 43 1 58801 30601  
Fax: 43 1 58801 30699  
Email: michael.weigand@tuwien.ac.at |
| Warsaw University of Technology        | 1993     | Dr. Janusz Narkiewicz  
Telephone: (48) 22-660-7445/7884  
Fax: (48) 22-622-3877  
Email: jnark@meil.pw.edu.pl |
The AHS, founded in 1943, is the professional society for individuals and organizations seeking to advance vertical flight technology and its applications. AHS provides the medium for technical exchange, and technical exchange means technical progress. The Educational membership program, begun in 1977, offers educational institutions a voice and role in the direction of vertical flight technology, and an opportunity to participate in the numerous services designed to accomplish AHS goals.

Educational membership dues are $250. AHS educational membership includes:
- AHS publications including Vertiflite Magazine; the highly regarded AHS Journal (printed version only); and the Annual Forum Proceedings CD detailing the latest technological developments.
- Two full individual memberships for a faculty sponsor and a student advisor.
- Access to an extensive vertical flight library of more than 150 videos; 8,500 documents and more than 1,000 books.
- Half-price exhibit space at the AHS Annual Forum and Technology Display. Plus, student volunteers get free registration in exchange for their services.
- Participation in AHS’s diverse award programs.
- Opportunities to participate on AHS Technical Committees with the leading engineers, designers and developers in the industry.
- Local chapter meetings that are offered throughout the world.
- Unlimited networking opportunities.
- VFF annual scholarships for students pursuing careers in vertical flight technology.
- Profile of your institution on the AHS Website at www.vtol.org.
- AHS will provide assistance to students seeking employment in the vertical flight industry.
- Opportunity to make presentations before local chapter meetings.
- Opportunity to participate in the Student Design Competition.

Application is hereby made for Educational Membership in the AHS. Annual dues of $250 are enclosed.

Organization: ___________________________________________________________

Address:  __________________________________________________________________

City: ____________________________________________ State: __________ Zip: __________

Country: __________________________________________________________________

Tel: ______________________ Fax: ___________________ Email: ______________________

AHS Member Contact/Faculty Sponsor: __________________________________________

Job Title: __________________________________________________________________

Please indicate method of payment: o Check       o MasterCard       o Visa       o American Exp.

Credit Card Number: __ __ __ __-__ __ __ __-__ __ __ __-__ __ __ __ Exp. Date: __________________

Applicant’s Signature: ______________________________________ Date:____________________
Student Chapter Activation

At such time as five or more students and at least one professor at a given college or university desire to activate a Student Chapter of the AHS, a petition should be signed by up to five (5) current AHS members, specify the educational institution of the new Student Chapter, and request activation details.

Upon receipt of the formal request, the AHS Headquarters will furnish the petitioners with:

1. A supply of membership applications.
2. The name and address of a contact from the local AHS Chapter with whom the Student Chapter will be affiliated.

On receipt of the above the petitioners should:

1. Establish a site and date for the initial activation meeting.
2. Prepare a meeting notice to be distributed on the campus by the petitioners.
3. Notify all potential new AHS members.
4. Forward a copy of the initial meeting notice to AHS Headquarters.

At the initial Student Chapter activation meeting the members and non-members in attendance are to:

1. Conduct a pre-meeting membership recruitment action wherein those non-members in attendance complete AHS application forms and submit them along with appropriate dues to the Membership Chair pro-tem.
2. Elect officers to the appropriate offices of the Student Chapter Board — a minimum of President, Secretary/Treasurer, Program/Membership Chair.
3. Establish the basic goals of the Chapter in accordance with the AHS Bylaws.
4. Establish the frequency of the Chapter’s meetings (monthly, bi-monthly, quarterly.)
5. Establish the site and date for the next general membership meeting of the Student Chapter.

Following the initial Student Chapter Activation Meeting the President should report the actions of the meeting to AHS Headquarters. The Membership Chair should collect all non-member applications and appropriate dues and return them to the AHS Headquarters. The Program Chair should begin preparations for the next Student Chapter Meeting.
Student Chapters

Arizona State University  
Faculty Sponsor  Established 1985  
Vacant  Affiliated with Arizona  
Arizona State University  
Department of Mech/Aero Engineering  
Tempe, AZ  85287-6106  

Georgia Institute of Technology  
Faculty Sponsors  Established 1986  
Dr. Marilyn Smith  Affiliated with Atlanta  
Georgia Institute of Technology  
School of Aerospace Engineering  
207 Ferst Dr., NW  
Atlanta, GA  30332-0150  
(404) 894-3065, Fax (404) 894-2760  
Email: marilyn.smith@ae.gatech.edu  
Dr. Mark Costello  
(404) 385-4303, Fax (541) 908-1018  
Email: mark.costello@ae.gatech.edu

Iowa State University  
Faculty Sponsor  Established 1985  
Dr. G. Rajagopalan  Affiliated with St. Louis  
Iowa State University  
Aerospace Engineering Department  
404 Town Engineering Bldg.  
Ames, Iowa 50010  
(515) 294-6796, Fax (515) 294-3262  
Email: rajagoap@iastate.edu

North Carolina State University  
Faculty Sponsor  Established 2008  
Dr. Anna Howard  Affiliated with Cherry Point  
North Carolina State University  
3211 Broughton Hall  
2601 Stenson Drive  
Raleigh, NC 27695  
(919) 513-4019  
Email: annahoward@annahoward.com

Pennsylvania State University  
Faculty Sponsor  Established 1980  
Dr. Edward Smith  Affiliated with Philadelphia  
Pennsylvania State University  
Department of Aerospace Engineering  
231D Hammond Building  
University Park, PA  16802  
(814) 863-0966, Fax (814) 865-7092  
Email: ecs5@psu.edu

Rensselaer Polytechnic Institute  
Faculty Sponsor  Established 2001  
Dr. Nikhil Koratkar  Affiliated with Empire State  
Rensselaer Polytechnic Institute  
Dept. of Aerospace Engineering  
110 8th Street  
Troy, NY  12180  
(518) 276-2630, Fax (518) 276-2623  
Email: koratn@rpi.edu

San Jose State University  
Faculty Sponsor  Established 2008  
Glyn Falcon  Affiliated with SFBAC  
One Washington Square  
San Jose, CA 95192  
(408) 924-1000

University of Alabama in Huntsville  
Faculty Sponsor  Established in 1998  
Ms. Sue O’Brien  Affiliated with Redstone  
University of Alabama in Huntsville  
301 Sparkman Drive, VBRH M-60  
Huntsville, AL 35899  
(256) 824-6133; Fax (256) 824-6971  
Email: obriens@uah.edu

University of Maryland  
Faculty Sponsor  Established 1982  
Dr. Inderjit Chopra  Affiliated with Federal City  
University of Maryland  
Aerospace Engineering  
3180 Glenn L. Martin Hall  
College Park, MD  20742  
(301) 405-1122, Fax (301) 314-9001  
Email: chopra@eng.umd.edu

University of Michigan  
Faculty Sponsor  Established 1987  
Dr. Peretz Friedmann  Affiliated with Dayton  
University of Michigan  
Dept. of Aerospace Engineering  
1320 Beal Ave., 3001 FXB Bldg.  
Ann Arbor, MI  48109-2140  
(734) 763-2354, Fax (734) 763-0578  
Email: peretzf@umich.edu

Washington University in St. Louis  
Faculty Sponsor  Established 1979  
Dr. David Peters  Affiliated with St. Louis  
Washington University  
Dept. of Mechanical Engineering  
Box 1185  
St. Louis, MO  63130  
(314) 935-4337, Fax (314) 935-4014  
Email: dap@mecf.wustl.edu

Widener University  
Faculty Sponsor  Established 1998  
Dr. Maria Slomiana  
Widener University  
Mechanical Engineering Dept.  
One University Place  
Chester, PA  19013  
499-4062, fax (610) 499-4059  
Email: maria.slomiana@widener.edu
Student Design Competition Operating Rules

Abstract
This is the formal Operating Plan for execution of the Annual AHS Student Design Competition (SDC). It provides a description of the competition, identifies the organizations and individuals involved in it, defines the roles and responsibilities of each, and specifies the rules that govern it. This document is defined and maintained by the Student Design Competition Steering Committee under the authority of the AHS Technical Director and the AHS Technical Council.

Objective
The objective of the AHS Student Design Competition is to promote student interest in a career in the vertical flight industry, and to provide an opportunity for interested students and industry professionals to meet and interact.

Description
Each year the AHS challenges the student population to design and analyze a rotorcraft and/or its systems, which addresses the specific requirements of a Request for Proposal (RFP). The RFP is customized each year to describe an application of interest to the industry, and identifies the particular requirements that need to be met, such as the type and size of payload, the environmental conditions, year of service entry, etc. The RFP also includes the specific technical areas to be included in the student responses, categories for participation, award prizes, and the judging criteria.

The competition is sponsored by the rotary-wing industry, typically an individual company. The sponsoring organization(s) are often supported by other industry entities and by government organizations (US Army, US Navy, and NASA) in RFP development and judging of submittals.

Definitions
Student Design Competition (SDC) – Annual competition sponsored by industry, open to university graduate and undergraduate students for the design and analysis of a vertical flight aircraft, component or system
Sponsor – Industry entity that provides the award monies, RFP, and provides and coordinates judging of entries
Graduate Team – Group of student participants with at least one graduate study student
Undergraduate Team – Group of participants, all of whom are undergraduate study students
Judges – Set of industry/government participants coordinated through the SDC Committee to review and evaluate the student proposals against that year’s RFP
AHS International (AHS) – International technical society promoting the advancement of the rotary wing industry
Education Committee (EC) – AHS committee, reporting to AHS Technical Director, consisting of representatives from AHS
Educational member institutions, representatives from AHS corporate members, and other AHS individual members
Aircraft Design Technical Committee (ADTC) – AHS Technical Committee responsible for coordinating activities on overall aircraft, subsystem and component design, design technology and criteria and synthesis, interdisciplinary design, and vulnerability and crash safety considerations
AHS Forum – Annual conference and technology display of the AHS International
Award – Honor and prize money presented to the student proposals which are judged to be the best in each category of competition
Stipend – Money presented to the winning teams to go towards expense of attending the AHS Forum
Proposal – Student team responses which are intended to address the requirements of the competition RFP
Request for Proposal (RFP) – Background and requirements of a rotorcraft design project for response by participating student teams

Participants & Responsibilities
This section defines the organizations and individuals involved in the oversight and implementation of the AHS Annual Student Design Competition, and specifies the responsibilities of each entity.
Sponsor – The sponsorship of the competition is filled by industry on a rotating basis. All AHS corporate members are invited to serve as sponsor. The SDC Steering Committee Chair makes recommendation for sponsor selection to the AHS Technical Council.
Commit to sponsoring 6 months prior to release of RFP
Author Draft RFP, and provide to AHS SDC Steering Committee for review
Release RFP to AHS for distribution to potential participants
Provide award and stipend funds to AHS with RFP
Respond to questions as appropriate, coordinated through AHS
Lead and coordinate judging, with support of SDC Steering Committee and industry representatives
Compile and distribute comments and recommendations from the judges to the teams

AHS –
Distribute RFP to AHS Educational Member institutions, Technical Council, and Committees/Technical Committees
Advertise SDC to AHS Educational Member institutions and other schools, as appropriate
Serve as focal point for all communication between participants and sponsor
Provide registration fee to AHS Forum for all representatives of winning team(s)
Ensure SDC winning presentations are included in AHS Forum Aircraft Design technical session(s)
Recognize winning team(s)
Maintain record of annual RFPs, proposal submittals, student participants and winners

SDC Steering Committee -
Provide feedback on Draft RFP, as requested
Meet annually at Forum, and coordinate regularly
Promote participation in the SDC by industry and academia
Serve as or provide judges
Resolve any disputes associated with judging
Develop/maintain succession plan for SDC Committee
Plan and manage SDC Competition
Maintain SDC Charter / Operating Rules
Provide written report to AHS Deputy Director for Vehicle Design, for each AHS Technical Council meeting

Winner / Winning Team
Provide representative(s) to give presentation at AHS Forum

Aircraft Design TC
Provide space in Technical Sessions at AHS Forum for presentation for the Graduate and Undergraduate winning teams
Provide representative to SDC Steering Committee to serve as Chair
Maintain cost estimating relationships as a resource for the SDC
Provide cost estimating relationships to student teams and provide support as required

AHS Education Committee
Provide representative to SDC Steering Committee as focal point

AHS Vehicle Design Deputy Director
Present report to AHS Technical Council at each meeting

Recommended Annual Competition Timeline

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFP draft to SDC Committee</td>
<td>March 15</td>
</tr>
<tr>
<td>RFP to AHS</td>
<td>by AHS Forum</td>
</tr>
<tr>
<td>AHS release RFP</td>
<td>Early July</td>
</tr>
<tr>
<td>Letters of Intent Due</td>
<td>October 30</td>
</tr>
<tr>
<td>Proposals Due</td>
<td>June 1</td>
</tr>
<tr>
<td>Winner Announced</td>
<td>August 15</td>
</tr>
<tr>
<td>Award Winning Presentation</td>
<td>at AHS Forum</td>
</tr>
</tbody>
</table>
Figure 1 Proposed Schedule

Awards
Awards in both Graduate and Undergraduate categories
Other Award categories may be created (e.g. new entrant), but must be thoroughly defined in RFP
Must be accompanied by stipend for travel to AHS Forum for representative(s) of winner in each category, at time of Forum recognition

SDC Committee
The Student Design Competition Steering Committee shall consist of the following members:
Representative from AHS Aircraft Design Technical Committee, Chair
Representative from AHS Education Committee
Serve as Education Committee focal point (the Education SDC focal point shall not be apprised of the nature or content of the SDC RFP for that year until its release)
Representatives from government agencies that have significant rotary wing technology investment and facilities, and interest in employing trained and experienced graduates:
   US Army
   NASA
Representatives from Industry Sponsors – voting rights require one of the following:
   Having sponsored in past 5 years
   Having submitted to AHS written commitment to sponsor in next 2 years
   Having provided judging in three of previous four years
Vehicle Design Deputy Director

RFP Criteria
The RFP must meet the following criteria in order to meet the needs of industry and academia:
The topic must be of military interest or dual use
It must require the development of an overall aircraft configuration
There must be an element of system/subsystem definition
It must carry awards in the following categories –
  Graduate (required)
  Undergraduate (required)
  Not-for-Credit (optional)
  New Entrant (optional)
It should involve some form of recurring cost estimating
It may require the preparation of a presentation briefing

**RFP Format**
A standard RFP package provides consistency for all competitions. The following format is similar to the AIAA student design competitions:

**Cover**
- RFP Title (Type of Mission/Aircraft/System)
- nth Annual Student Design Competition
- Names/logos for AHS & Sponsoring Company

**Section 1 - Design Objectives & Requirements**
- Overall Mission Needs (aircraft/system role and mission)
- Design Project Objectives (focus of design competition)
- Requirements & Constraints
  - Mission (ambient, range, speed, altitude, maneuver capability, etc)
  - Aircraft requirements (Certification basis, # crew, etc)

**Section 2 - Basic Proposal Info**
- Who can participate
  - Graduate/undergraduate
  - Team size should be limited to about ten people
  - One proposal per team, unlimited teams per school
  - Any rules regarding design project as a part of curriculum
  - Instructions on withdrawal from competition

**General RFP Data Requirements**
- Schedule (RFP, Letter of Intent, RFIs, Submittal, Awards)
- Points of contact (AHS only)
- Required elements (Executive Summary, Compliance Matrix, etc)
- Number of Pages (total, per section, etc)
- RFP delivery (number of copies, where, when)

**Data Requirements**
- Required description of design (drawings, structural design, etc)
- Attributes data (weights, performance, stress, cost, etc)
- Format for attributes (weights statement, payload-range, etc)
- Substantiation (methodology & assumptions)
- Proposed manufacturing approaches (if applicable)

**Basis for Judging - Weighting Factors**
- Technical / Organization / Originality / Application & Feasibility
- Written (& Oral?) Presentations

**Section 3 - Definitions & References**
- Basic cost methodology
- Mission-specific data references (NASA reports, AHS Papers, etc)
Judging Criteria (Weighting Factors)

Technical Content (40 points)
- Design meets RFP technical requirements
- Assumptions clearly stated and logical
- All major technical issues considered
- Appropriate trade studies performed to direct the design process
- Well balanced and appropriate substantiation of complete system
- Technical drawings accurately describe the complete aircraft and its subsystems

Organization & Presentation (15 points)
- Self contained Executive Summary that contains all pertinent information and makes a compelling case for why the proposal should win.
- Introduction clearly describes the major features of the proposed aircraft
- All pertinent and required information included and easy to find
- Continuity of topics
- Figures, graphs and tables are uncluttered and easy to read and understand
- All previous relevant work cited
- Overall neatness of report
- Originality (20 points)
- Treatment of problem shows imagination
- Aircraft concept shows originality
- Unique vehicle attributes and subsystem integration show innovative thinking
- Overall vehicle aesthetics

Application & Feasibility (25 points)
- Current and advanced technology levels used are justified and substantiated.
- How affordability considerations influenced the design process.
- How reliability and maintainability features influenced the design process.
- Manufacturing methods and materials are considered in the design process.
- Proposal shows an appreciation of how the vehicle will be used by the operator.
- Consideration of additional applications and capabilities other than those in the RFP.

Judging Package
Judging Instructions & Schedule
Judging Criteria/Weighting Factors
- Technical / Organization / Originality / Application & Feasibility
- Written & oral presentations (if appropriate)

Scoring sheet
RFP
Proposals
## Appendix A – Summary of Prior AHS Student Design Competitions

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Submittal</th>
<th>Sponsor</th>
<th>Topic</th>
<th>Inspiration</th>
</tr>
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<tbody>
<tr>
<td>1st</td>
<td>1983</td>
<td>1984</td>
<td>Boeing</td>
<td>Combat Search &amp; Rescue LHX Utility</td>
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<tr>
<td>2nd</td>
<td>1984</td>
<td>1985</td>
<td>Boeing</td>
<td>Sport Helicopter Kit</td>
</tr>
<tr>
<td>3rd</td>
<td>1985</td>
<td>1986</td>
<td>Hughes</td>
<td>One-Man Rotary-Wing Racer</td>
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<tr>
<td>4th</td>
<td>1986</td>
<td>1987</td>
<td>Bell</td>
<td>Low Cost Commuter Tiltrotor CTR</td>
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<td>5th</td>
<td>1987</td>
<td>1988</td>
<td>Sikorsky</td>
<td>Heavy-Lift Helicopter ACA</td>
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<tr>
<td>6th</td>
<td>1988</td>
<td>1989</td>
<td>MDHS</td>
<td>Light Utility Helicopter MDX</td>
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<tr>
<td>7th</td>
<td>1989</td>
<td>1990</td>
<td>Boeing</td>
<td>Surveillance RPV TRUS</td>
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<td>8th</td>
<td>1990</td>
<td>1991</td>
<td>Bell</td>
<td>High Speed VTOL NASA HSR</td>
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<tr>
<td>10th</td>
<td>1992</td>
<td>1993</td>
<td>MDHS</td>
<td>Army Attack Rotorcraft FAAV</td>
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<td>11th</td>
<td>1993</td>
<td>1994</td>
<td>Boeing</td>
<td>Dual Use MLR MLR</td>
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<td>12th</td>
<td>1994</td>
<td>1995</td>
<td>Bell</td>
<td>UAV Eagle-Eye</td>
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<tr>
<td>14th</td>
<td>1996</td>
<td>1997</td>
<td>MDHS</td>
<td>V-22 Escort MAMBA-V</td>
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<tr>
<td>15th</td>
<td>1997</td>
<td>1998</td>
<td>Boeing</td>
<td>Civil Rotorcraft Family Model 609</td>
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<tr>
<td>16th</td>
<td>1998</td>
<td>1999</td>
<td>Bell</td>
<td>High-Speed VSTOL Personal Transport NASA PAVs</td>
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<td>17th</td>
<td>1999</td>
<td>2000</td>
<td>Sikorsky</td>
<td>VTOL Planetary Surface Explorer MARS Pathfinder</td>
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<tr>
<td>18th</td>
<td>2000</td>
<td>2001</td>
<td>Boeing</td>
<td>Search &amp; Rescue Perfect Storm</td>
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<tr>
<td>19th</td>
<td>2001</td>
<td>2002</td>
<td>Bell</td>
<td>Light Helicopter Upgrade Program 206B+</td>
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<tr>
<td>20th</td>
<td>2002</td>
<td>2003</td>
<td>Sikorsky</td>
<td>High Rise Emergency Rescue September 11th</td>
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<tr>
<td>21st</td>
<td>2003</td>
<td>2004</td>
<td>Agusta</td>
<td>Design for Certification Mountain A109K2</td>
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<tr>
<td>22nd</td>
<td>2004</td>
<td>2005</td>
<td>Boeing</td>
<td>Heavy Lift VTOL Acft Heavy Lift</td>
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<tr>
<td>23rd</td>
<td>2005</td>
<td>2006</td>
<td>Bell</td>
<td>2-Place Turbine Training Helicopter Turbine</td>
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<tr>
<td>24th</td>
<td>2006</td>
<td>2007</td>
<td>Sikorsky</td>
<td>Advanced Deployable Compact Rotorcraft in Support of Special Operations Forces</td>
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<tr>
<td>25th</td>
<td>2007</td>
<td>2008</td>
<td>Eurocopter</td>
<td>Advanced VTOL Concept SMART-COPTER</td>
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<tr>
<td>26th</td>
<td>2008</td>
<td>2009</td>
<td>AgustaWestland</td>
<td>Non-Conventional Rotor Drive</td>
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<tr>
<td>27th</td>
<td>2009</td>
<td>2010</td>
<td>Boeing</td>
<td>Lift! More Lift!</td>
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<tr>
<td>28th</td>
<td>2010</td>
<td>2011</td>
<td>Bell</td>
<td>Multi-Mission Aircraft</td>
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<td>29th</td>
<td>2011</td>
<td>2012</td>
<td>Sikorsky</td>
<td>Rotary Wing Pylon Racer</td>
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<tr>
<td>30th</td>
<td>2012</td>
<td>2013</td>
<td>Eurocopter</td>
<td>The HealCopter 2008 China Earthquake</td>
</tr>
</tbody>
</table>
2012 Sponsor – Sikorsky Aircraft Corporation

Project - To design a purpose built helicopter to race on a prescribed pylon course. Graduate students were also required to submit a simulation package with a video.

Winners - The University of Maryland placed first in the graduate category with their entry Dart T690/E550 (PDF 3MB); a video of the flight simulation of the UMD Dart can be found on the AHS YouTube Channel. Georgia Institute of Technology/University of Liverpool captured second place with their Advanced Racing Concept (ARC) (PDF 15MB); a video of the flight simulation of the ARC can also be found on the AHS YouTube Channel. First place undergraduate went to Georgia Institute of Technology/Middle East Technical University with BADGER (PDF 4.5MB). The Pennsylvania State University came in second with Altair (PDF 2MB).

2011 Sponsor – Bell Helicopter Textron

Project - To design a multi-mission vertical lift system that optimally blends the competing requirements of three very different missions – Search and Rescue, Insertion and Resupply. The aircraft must be reconfigurable.

Winners - The University of Maryland’s Excalibur (PDF 7MB) came in first-place in the graduate category, with Georgia Institute of Technology / University of Liverpool's Odyssey (PDF 6MB) capturing second-place. In the undergraduate category, Georgia Institute of Technology's Golden Retriever (PDF 3MB) won first place and The Pennsylvania State University's Phoenix (PDF 3MB) came in second. Indian Institute of Technology, Kanpur captured the prize for best new entry with RC2 (PDF 16MB).

2010 Sponsor – The Boeing Company

Project -- To design a technology demonstrator multi-lift system such that two rotorcraft could be cooperatively operated and lift 75% more payload than either aircraft. Graduate students were also challenged to design and conduct a flight test program for their system.

Winners -- The University of Maryland’s Goliath came in first-place in the graduate category, with Georgia Institute of Technology’s Thor capturing second-place. In the undergraduate category, The Pennsylvania State University’s SPARCL won first place and Rensselaer Polytechnic Institute with GunSmash and the Atlas came in second. M.S. Ramaiah Institute of Technology (India) captured the prize for best new entry with Silver.

2009 Sponsor – AgustaWestland

Project -- to design a rotor/drive system which could include NOTAR, or Fenestron, tandem rotor or coaxial rotor or even an intermeshing rotor (synchropter) configuration. The purpose of this year’s competition was to design a new, non-conventional rotor drive system for a helicopter.

Winners – Georgia Institute of Technology and Liverpool University came in first place in the 27th Student Design Competition graduate category and the University of Maryland captured second place honors. In the undergraduate category, Georgia Institute of Technology Blue Team won first-place and the Pennsylvania State University came in second. Nanjing University of Aeronautics and Astronautics captured the prize for the best new entry.

2008 Sponsor – Eurocopter

Project – to design of an advanced VTOL concept capable of operating from an unprepared area and which minimizes energy consumption throughout the operational envelope.

Winners – the team of University of Maryland and Korea's Konkuk University (Volterra - The Era of Green came in first place while the Georgia Institute of Technology captured second place honors. First place in the undergraduate category was bestowed upon the Pennsylvania State University with second place going to Georgia Institute of Technology. The "Best New Entrant" was Turkey's Middle East Technical University.

2007 Sponsor – Sikorsky Aircraft Corp.

Project — to develop an Advanced Deployable Compact Rotorcraft in Support of Special Operations Forces.

Winners — Georgia Institute of Technology came in first place while the University of Maryland captured second place honors. First place in the undergraduate category was bestowed upon the team of Pennsylvania State University and Technion — Israel Institute of Technology with second place going to Georgia Institute of Technology. The “Best New Entrant” was Pennsylvania State University and Technion — Israel Institute of Technology.

2006 Sponsor – Bell Helicopter Textron, Inc.

Project - To develop a two-place single turbine engine training helicopter that was affordable.

Winners - Georgia Institute of Technology came in first place in the graduate category while the University of Maryland captured second place honors. First place in the undergraduate category was bestowed upon the team of Pennsylvania State University and Technion — Israel Institute of Technology with second place going to the Royal Melbourne Institute of Technology Team. The “Best New Entrant” was Istanbul Technical University.

2005 Sponsor – The Boeing Co.

Project - To develop the conceptual design of a modern military Heavy Lift VTOL aircraft. The aircraft had to be designed to operate from existing naval ships and be able to transport a 20-ton FCS combat-ready vehicle.

Winners - University of Maryland came in first place in the graduate category and Georgia Institute of Technology captured second place honors. The University of Alabama Huntsville won as the “Best New Entrant” category. In the undergraduate category, Rensselaer Polytechnic Institute won first-place and the Royal Melbourne Institute of Technology came in second.

2004 Sponsor - AgustaWestland

Project - To develop a helicopter specifically designed for high altitude rescue operations. The aircraft had to be certified for single pilot, day/night operations with cruise speeds of at least 145 knots.
Winners - University of Maryland came in first place in the graduate category and Georgia Institute of Technology captured second place honors. The US Air Force Institute of Technology won third place as well as the "New Entrant" category. In the undergraduate category, Embry-Riddle Aeronautical University won first-place.

2003 Sponsors - Sikorsky Aircraft Corp. and NASA

Project - To design a VTOL urban disaster response vehicle for high rise firefighter deployment, rooftop occupant extraction, disaster command and control and other emergency response missions.

Winners - University of Maryland came in first place in the graduate category and Georgia Institute of Technology captured second place honors. In the undergraduate category The Pennsylvania State University won first-place with Rensselaer Polytechnic Institute coming in a close second and Iowa State University placing third.

2002 - Sponsor - Bell Helicopter Textron, Inc.

Project - To upgrade and remanufacture a 4-6 place turbine helicopter for commercial applications, that can operate at 140 Kt cruise speed and have a range of 400nm.

Winners - The first-place winner in the graduate category was the University of Maryland and Georgia Institute of Technology came in second. Rensselaer Polytechnic Institute captured first-place honors in the undergraduate category.

2001 - Sponsor - Boeing Philadelphia

Project - To develop a VTOL platform with an innovative method of controlling the cyclic pitch of the rotor blades. Methods that do not depend upon the use of traditional swashplate mechanisms were sought.

Winners - The first-place winner in the graduate category was the University of Maryland and Georgia Institute of Technology came in second-place.

2000 - Sponsors - Sikorsky Aircraft Corp. and NASA

Project - To develop an autonomous rotorcraft for exploration of Mars. The mission was to be a proof-of-concept demonstration for rotary wing flight in the Martian atmosphere.

Winners- Georgia Institute of Technology took first place honors in the Graduate Propulsion System and in the Graduate Flight Computer competitions as well as a second place in the Graduate Vehicle Design category. Pennsylvania State University captured first place honors in the Undergraduate Vehicle Design section and the University of Maryland won first place in the Graduate Vehicle Design portion of the competition.

1999 - Sponsor - Bell Helicopter Textron

Project - To develop a VTOL four-to-six place aircraft minimizing the the number of man hours required to fabricate the components.

Winners- The University of Maryland won 1st Place in the graduate category and Rensselaer Polytechnic Institute won first place in the undergraduate division. The U.S. Naval Postgraduate School took second in the graduate category. Second place in unsergraduate category and Best New Entrant was given to Princeton University.

1998 - Sponsor - Boeing Philadelphia

Project- To develop a modern 12-seat civil VTOL transport rotorcraft with the capability to grow to 19 seats with minimum changes.

Winners- The University of Maryland won 1st Place in the graduate category and Rennselaer Polytechnic Institute won first place in the undergraduate division. The U.S. Naval Postgraduate School and Pennsylvania State University took second place in the graduate and undergraduate categories.

1997 - Sponsor - Boeing Mesa

Project- To develop the conceptual design of a VTOL aircraft which could serve as an armed escort for the V-22 high-speed rotorcraft.

Winners- Georgia Institute of Technology won first place in the graduate category and the U.S. Military Academy won first in the undergraduate division. The U.S. Naval Postgraduate School and Pennsylvania State University took second place in the graduate and undergraduate categories.

1996 - Sponsor - Sikorsky Aircraft Corp.

Project- A cost-effective, dedicated fire fighting rotorcraft that could best perform a 200 acre, 10 hour forest fighting job for the least overall cost.

Winners - Georgia Institute of Technology and the U.S. Naval Postgraduate School placed first and second in the graduate category, and Pennsylvania State University and the U.S. Military Academy tied for first place in the undergraduate category. Rensselaer Polytechnic Institute placed second in the undergraduate category.

1995 - Sponsor - Bell Helicopter Textron, Inc.

Project- A UAV capable of extracting two people, delivering a payload capsule weighing up to 400 lbs., and equipped with video surveillance.

Winners - The U.S. Naval Postgraduate School and Georgia Institute of Technology placed first and second in the graduate category, and Georgia Institute of Technology and the U.S. Military Academy placed first and second in the undergraduate category.

1994 - Sponsor - Boeing Helicopters

Project- VTOL system with dual-use applications as a civil transport and as a troop assault vehicle.

Winners - Georgia Institute of Technology and the US Naval Postgraduate School placed first and second in the graduate category and the US Military Academy placed both first and second in the undergraduate category.

1993 - Sponsor - McDonnell Douglas Helicopter Systems

Project- Scout Reconnaissance

Winners - US Naval Postgraduate School and Arizona State University placed first and second in the graduate category and the US Military Academy placed both first and second in the undergraduate category.
1992 - Sponsor - Sikorsky Aircraft

Project - VTOL Package Express Aircraft
Winners - Georgia Institute of Technology and Rensselaer Polytechnic Institute. Penn State placed first and second in the undergraduate categories

1991 - Sponsor - Bell Helicopter Textron, Inc.

Project - High Speed VTOL
Winners - Georgia Institute of Technology in all categories

1990 - Sponsor - Boeing Helicopters

Project - Remotely Piloted Surveillance Vehicle
Winners - Georgia Institute of Technology in all categories

1989 - Sponsor - McDonnell Douglas Helicopter Systems

Project - Light Utility Helicopter
Winners - Georgia Institute of Technology in all categories

1988 - Sponsor - Sikorsky Aircraft

Project - Heavy Lift Helicopter
Winners - Georgia Institute of Technology placed first and second, University of Maryland placed third

1987 - Sponsor - Bell Helicopter Textron, Inc.

Project - Low Cost Tilt Rotor for Commuter Operations
Winners - Georgia Institute of Technology placed first and second, Rensselaer Polytechnic Institute placed third.

1986 - Sponsor - Boeing Helicopters

Project - One Man Rotary Wing Racer
Winners - Georgia Institute of Technology in all categories

1985 - Sponsor - Boeing Helicopters

Project - Sport Helicopter for Home Construction
Winners - Georgia Institute of Technology 1st and 2nd Place - Penn State 3rd Place

1984 - Sponsor - Boeing Helicopters

Project - Combat, Search and Rescue
Winners - Rensselaer Polytechnic Institute & Georgia Institute of Technology
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Aerospace Engineer  
U.S. Army Aviation Applied Technology  
Directorate  
Phone: (757) 878-4292  
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Conferences

Overview

**Article VII, Para 2, of the 1976 Bylaws revision** has been updated to read as follows:

In addition to the annual technical meeting usually held in the Spring of the year in conjunction with the annual meeting of the Society, the Society may sponsor or cosponsor additional technical meetings. To be sponsored by the Society, these technical meetings must be open to attendance by the entire international community, and as such will be referred to as “International Technical Meetings”. Such meetings must be endorsed by the Technical Director and approved by the Board of Directors in accordance with procedures outlined in the “Technical Meeting Guidelines”. For purposes of this paragraph, “International Technical Meetings” are defined as meetings for which a general call for papers is issued or a significant number of papers are invited from outside a sponsoring region.

Historically, a technical meeting (other than the Annual Forum) which involves more than a Region or a Chapter has been called a “National Technical Meeting”. However, since AHS is an international organization, the word “National” is no longer considered appropriate, and the term “International Technical Meeting” or simply “Technical Meeting” is used. A meeting only involving a Chapter or a single Region is not considered to be an “International Technical Meeting”.

An “International Technical Meeting” can be characterized as either a “Specialists’ Meeting” or a “Topical Meeting”. These two types of Technical Meetings are differentiated as follows:

- **Specialists’ Meetings**
  - Focused on a relatively narrow technical specialty (e.g., aeromechanics, vehicle design, structures)
  - A general Call for Papers is issued
  - Formal papers required and Proceedings published

- **Topical Meetings**
  - Broader subject area (e.g., military requirements, civil operations)
  - Majority of presentations are invited (though a Call for Papers may be used)
  - Formal papers and Proceedings typically not required

The procedure for proposing and approving an International Technical Meeting is not dependent of which type of meeting is being proposed.

It is critical that as soon as a Technical Meeting is being considered, the proposer should notify AHS Headquarters and the Technical Director. This information will be posted so that others who may be planning to propose a Technical Meeting will be aware of potential conflicts in a timely manner.

The criteria for initiating International Technical Meetings are:

a) The state of the particular technology or topic warrants such a meeting.
b) There is a Region or Chapter which wants to sponsor the meeting.
c) The approval of the AHS Board of Directors has been obtained.

Joint sponsorship of technical meetings with government agencies, universities, and other technical societies is encouraged where such an arrangement provides a distinct advantage for the Society or for the advancement and dissemination of the particular technology addressed.

In the event that two or more Regions propose sponsorship of conflicting International Technical Meetings, the most appropriate technical subject will be selected. However, if the proposing Region has sponsored an International Technical Meeting more recently than a Region whose proposal has been rejected, consideration will be given to relocating the selected meeting.
The size of an International Technical Meeting is not necessarily important. The success of such a meeting is measured by the quantity and quality of the technical interchange which takes place, not by the number of attendees.

The following sections describe the process for approving and conducting Technical Meetings:

- Procedure for Proposing International Technical Meetings
- Co-Sponsorship of Technical Meetings
- Form for Proposing Technical Meetings
- Guidelines for Organizing and Conducting Technical Meetings

All of these sections should be read and considered in the process of proposing any Technical Meeting.
International Technical Meetings
Overview

ARTICLE VII of the Bylaws (Regions and Chapters) states:

The function of the Regions and Chapters shall be to hold local meetings, discussions, lectures and demonstrations consistent with the purpose of the Society ….

ARTICLE VIII of the Bylaws (Meetings of Members and Directors) further states:

In addition to the Annual Forum, the Society may sponsor or co-sponsor additional International Technical Meetings. Such meetings must be endorsed by the Technical Director and approved by the Board in accordance with procedures outlined in the [Members and] Officers’ Guide. For purposes of this paragraph, “International Technical Meetings” are defined as meetings for which a general call for papers is issued or a significant number of papers invited from outside of the sponsoring region.

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AHS International
PROCEDURE FOR PROPOSING INTERNATIONAL TECHNICAL MEETINGS

The following procedure applies to proposing Technical Meetings for which the AHS is the sole or lead sponsor. (The procedure for meetings where the AHS is not the sole or lead sponsor is addressed in the section titled “Co-Sponsorship of Technical Meetings”. Although that section is aimed at co-sponsored meetings, it contains guidance which should also be considered in developing sole or lead-sponsor meetings.)

1. To propose an International Technical Meeting, the Vice-President of a Region or the Chair of a Technical Committee should complete the “AHS International Technical Meeting Proposal” form and forward it, with a cover message, to the Technical Director and AHS Headquarters. The proposal must be received at least
- 15 months in advance of the proposed meeting, and
- 15 calendar days prior to the Technical Council Meeting during which endorsement will be sought.

2. Prior to submitting a proposal, it is critical that any proposed meeting be thoroughly coordinated with all potentially interested or affected parties. At a minimum, organizers of a Technical Meeting are to coordinate with the following people/offices for the reasons stated:

   • **AHS Headquarters**
     - To identify potential conflicts with other AHS Meetings and/or meetings by other professional societies (e.g., AIAA, IEEE, SAE, SAWE, etc.)
     - To discuss initial plans for which Deputy Technical Director (or Directors) and which Technical Committee (or Committees) organizers should coordinate
     - Documentation: Coordination message to and response from HQ

   • **Deputy Technical Director(s)**
     - To obtain concurrence on Technical Committee(s) with which meeting organizers plan to coordinate and provide input that subject matter and timing for planned meeting are appropriate.
     - To obtain an email or letter of endorsement for the meeting
     - Documentation: Email or letter of endorsement for the meeting

   • **Regional VP**
     - To provide awareness of planned meeting and insure coordination with Chapters in the region.
     - To obtain an email or letter of endorsement for the meeting
     - Documentation: Email or letter of endorsement for the meeting

   • **Technical Committee(s) Chairs**
     - To assure subject matter and timing for planned meeting are appropriate given previous or planned meetings on same or similar subjects by AHS or other societies
     - Documentation: Email or letter of endorsement for the meeting

Accomplishment of this coordination is to be documented on the Proposal form or in attachments to it. The Technical Director will arbitrate any issues not resolved by the prescribed coordination.

3. The Technical Director will then, after consultation with the Technical Council, determine whether to endorse the meeting and recommend it to the AHS Board of Directors for final approval. Once a meeting is approved, the Technical Director will advise the sponsoring Regional Vice President, the Deputy Director and the appropriate Committee Chair(s), and the designated Chair of the meeting. It then becomes the responsibility of the designated Chair of the meeting to organize and conduct the meeting using the “Guidelines for Organizing and Conducting Technical Meetings” section in this document.

Conditional Endorsement: Situations may occur where the Technical Council cannot unconditionally recommend that the Board approve a proposed meeting (e.g., there are some minor but important or critical issues yet to be resolved). In such cases, the Technical Council can vote for “Conditional Endorsement” of proposed meeting. In this case, the Council will
- Establish conditions which must be satisfied for unconditional endorsement
- Give Technical Director authority to use his/her judgment that conditions are satisfied
Conditions are expected to be satisfied within a few weeks, but absolutely no later than one year prior to the date of the proposed meeting. The Technical Director will ask Board to approve meeting that has “conditional endorsement”, subject to satisfaction of the conditions and will notify the Board when the conditions are satisfied.

4. An acceptable financial plan showing that expenses can be met is a prerequisite to Board approval. AHS Headquarters may advance funds required by the Region or Chapter sponsoring an International Technical Meeting, following Board approval of that meeting, to cover preliminary expenses. Co-sponsorship funding or industry assistance must exclude any preconditions resulting in “commercialism”. If a Region or Chapter incurs a loss on the meeting, the Society will cover the loss after the Region or Chapter involved has made a reasonable attempt to do so with readily available resources.

5. When the income from a meeting exceeds the expenses, sponsoring Regions or Chapters are encouraged, but not required, to place the surplus funds in an account which will be used for cash advances to support future meetings.

6. The sale and distribution of the Proceedings of International Technical Meetings will be the responsibility of the Region or Chapter during the meeting. Immediately after the meeting, a set of Proceedings will be sent to AHS Headquarters for distribution. Proceeds from the sale of the Proceedings made by the Chapter or Region will go to the Chapter or Region and proceeds of sales by headquarters will go to AHS Headquarters.

7. Financial interrelationship between International/Regional and Chapter organizations in regard to Specialists Meetings are discussed under “Financial Considerations.” Chapters sponsoring financially successful specialists’ meetings are requested to provide 25% of all net proceeds after expenses for Specialists’ Meetings to AHS headquarters. In addition, subject to the spending plans and the affordability of doing so, chapters and regions are encouraged to provide funds to headquarters whenever possible for general operations and the VFF scholarship fund.

8. Exceptions to this policy may be approved by the Board of Directors.
1. Each proposed co-sponsorship will be considered on its own merits without predisposition regarding the technical societies with whom co-sponsorship is envisioned.

2. The request for co-sponsorship may originate from a Region or a Technical Committee.

3. The following questions should be considered in the process of deciding to pursue co-sponsorship:

   3.1 Technical Considerations

      3.1.1 Is the meeting relevant to the interests of one or more Technical Committees, or an area in which a new committee has been considered?

      3.1.2 Will the AHS Technical Committee(s) be appropriately represented on the technical organizing staff of the meeting?

      3.1.3 What plan has been established to promote the meeting in the technical community of the AHS?

      3.1.4 Does the proposed meeting conflict technically with any other AHS or AHS co-sponsored meetings?

      3.1.5 What is the expected size of the rotary-wing audience at the helicopter related sessions?

      3.1.6 If not based on helicopter applications, are other sessions relevant to helicopter technology?

      3.1.7 Is co-sponsorship endorsed by the appropriate Technical Committee(s)?

   3.2.1 Administrative Considerations:

      3.2.1 Does the proposed co-sponsored meeting present a schedule conflict with any other AHS or AHS co-sponsored meeting?

      3.2.2 Does the co-sponsorship agreement provide sufficient economic incentives to AHS membership?

      3.2.3 How will the AHS benefit from co-sponsorship?

      3.2.4 Are there any financial liabilities or profits to be shared?

      3.2.5 To what extent will the AHS be required to supply funding to support any aspect of the proposed meeting?

      3.2.6 Is the request for co-sponsorship timely with respect to the administrative organization of the meeting?

      3.2.7 Will the AHS be appropriately represented with respect to the administrative organization of the meeting?

      3.2.8 How will the AHS be expected to publicize the meeting?

      3.2.9 If appropriate, has the proposed meeting received the endorsement of an AHS Region?

4. Procedures:

   4.1 All requests for co-sponsorship will be addressed to the Technical Director and the Executive Director for action.

   4.2 The Technical Director, in conjunction with the appropriate Deputy Director(s) will determine the technical merits of the proposal.

   4.3 The Executive Director, in conjunction with the appropriate Regional Vice President and Chapter officers will determine the administrative merits of the proposal.
4.4 The Technical Director and Executive Director will jointly approve proposals when technical benefits are significant and administrative liabilities are minimal. Proposals having minimal technical merit or significant administrative implications will be brought to the Board of Directors for approval.
AHS International
TECHNICAL MEETING PROPOSAL

[Complete entire form and submit at least 15 months in advance of the proposed meeting and 15 calendar days prior to the Technical Council Meeting during which endorsement will be sought.]

It is requested that the Technical Director endorse and the AHS Board of Directors approve the meeting described below:

Basic Information

1. Title of Meeting: ________________________________________________________________

2. Date(s) & Location: ______________________________________________________________________

3. Rationale for Meeting (state briefly):

   a) Subject Matter/Scope/Theme: ______________________________________________________

   b) Organization currently active in these areas and probability of their contributing significant papers:
     __________________________________________________________________________

   c) Value to Helicopter & VTOL industry; degree of advancement of the field: ______________

4. Reason for choice of date/location: __________________________________________________________________________

   a) Last Meeting on Similar Subject (Date, Location, Sponsor): ________________________________

   b) Could this meeting co-locate with another AHS or Technical Society Meeting? Describe: __________

5. Sponsorship:

   □ AHS will operate and assume complete responsibility.
   
   or

   □ Co-sponsorship with: __________________________ who will assume ______% of financial and operational responsibilities.


7. The host AHS Region/Local Chapter(s): ________________________________________________

8. Meeting Chairs

   General Chair: ________________________________________________________________
   Address: ______________________________________________________________________
   Phone: __________________ Fax: __________________ Email: __________________

   Technical Program Chair: ________________________________________________________
   Address: ______________________________________________________________________
   Phone: __________________ Fax: __________________ Email: __________________

   Administrative Chair: ___________________________________________________________
   Address: ______________________________________________________________________
   Phone: __________________ Fax: __________________ Email: __________________
Technical Logistics
1. The type of technical person interested in this program will be: ____________________________
2. It is estimated that _____% of the papers will result from the “Call for Papers” and _____% will be invited.
3. Number of papers recommended/expected: __________________________________________
4. Estimated total attendance: _______________________________________________________ 
5. Technical Display(s) (type/size/source) : ____________________________________________

Coordination
At a minimum, organizers of a Technical Meeting are to coordinate with the following people/offices for the reason stated:

• **AHS Headquarters**
  - To identify potential conflicts with other AHS Meetings and/or meetings by other professional societies (e.g., AIAA, IEEE, SAE, SAWE, etc.)
  - To discuss initial plans for which Deputy Technical Director (or Directors) and which Technical Committee (or Committees) organizers should coordinate with
  - Documentation: Coordination message to and response from HQ

• **Deputy Technical Director(s)**
  - To obtain concurrence on Technical Committee(s) with which meeting organizers plan to coordinate and provide input that subject matter and timing for planned meeting are appropriate.
  - To obtain an email or letter of endorsement for the meeting
  - Documentation: Email or letter of endorsement for the meeting

• **Regional VP**
  - To provide awareness of planned meeting and insure coordination with Chapters in the region.
  - To obtain an email or letter of endorsement for the meeting
  - Documentation: Email or letter of endorsement for the meeting

• **Technical Committee(s) Chairs**
  - To assure subject matter and timing for planned meeting are appropriate given previous or planned meetings on same or similar subjects by AHS or other societies
  - Documentation: Email or letter of endorsement for the meeting

Accomplishment of this coordination is to be documented as part of the proposal submittal. The Technical Director will arbitrate any issues not resolved by the prescribed coordination.

Attach a list of all known related AHS and non-AHS meetings/conferences up to 8 months before and after date of the planned meeting. The list should include the date, topic, location, and sponsoring organization of the meetings/conferences. Provide assessment of impact of potential conflict (none, minor, major).

**Advanced Budget Plan (Summary)**

<table>
<thead>
<tr>
<th>Estimated Costs</th>
<th>Estimated Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting Facility</td>
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<td>$__________</td>
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<tr>
<td>Food Functions</td>
<td>Non-Member</td>
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**TOTAL** $______________

ADVANCED FUNDS REQUIRED $______________

PROPOSED BY: ____________________________

APPROVED: ____________________________ DATE: ____________________________
AHS International
Guidelines for Organizing and Conducting Technical Meetings

GENERAL INFORMATION

The process of obtaining AHS approval for a sponsored or co-sponsored Technical Meeting is described in the preceding three sections and documented in the Proposal form. Once a meeting has been approved by the Board of Directors, the guidelines and suggestions outlined below are offered to assist the General Chair and his/her committee in the organization and conduct of a successful meeting.

PLANNING THE MEETING

As soon as approval of the meeting is received, the organizers should prepare a “Master Milestone Chart” indicating the key tasks which must be performed before, during, and after the meeting and by when each task is to be completed.

Arrangements Check List/Schedule: This schedule provides details in the “arrangements” area of the master milestone chart. In addition to indicating the recommended phasing, it provides for including the specific commitment dates applicable to your meeting and a record of their accomplishment. As a further aid it includes a list of things to watch for and suggestions to help assure a successful meeting.

FEE POLICIES

The general guidance is to admit press free to all functions at Technical Meetings and budget accordingly.

It is the accepted policy that authors of papers are expected to pay the full registration fee or a reduced speaker rate if one has been set, especially where the papers are selected from the “Call for Papers”. However, when authors are invited to present papers, consideration may be given in providing complimentary registration. Complimentary registration would also be offered to keynote and guest speakers at luncheons etc. These situations should be decided on a case-by-case basis and good judgment is the primary rule of thumb. The fee schedule should include reduced rates for active military, fully retired and student attendees (usually the same rate for all three). The registration rates should note that these low fees apply ONLY to current active military, to fully retired and over 60 – not currently employed or working as a consultant, and to full-time students. Reduced government rates are a common practice but not mandatory. Reduced government rates are usually set at the same rate as the reduced speaker rate.

It is standard practice to have a difference between the fees paid by members and non-members. Further, meeting organizers must set that difference equal to the cost of one year of AHS membership dues and to advertise that those paying the non-member fee will receive a one-year membership in AHS. The difference in fees collected from all non-members should then be sent to AHS Headquarters with a copy of the registration form so that the individuals can be entered into the membership roles. If AHS headquarters is handling registration for the meeting, this will be taken care of automatically. In the case of meetings co-sponsored by other organization, a member/non-member rate is not required,

OPERATING GUIDELINES

1. Choose your committee with great care. The primary job of a conference committee is to develop a timely and effective technical program. A suggested organization might be as follows:

   GENERAL CHAIR

   TECHNICAL CHAIR   ADMINISTRATIVE CHAIR   FINANCE CHAIR   PUBLICITY CHAIR

Each of these chairs then select subcommittee aides to provide the timely, innovative, effective and well coordinated accomplishment of the many necessary tasks. The names of the General Chair, Technical Chair and Administrative Chair must be supplied with the proposal form.
2. Good coordination helps at every level. Copies of correspondence concerning the meeting should be sent to AHS Headquarters. This includes memoranda to the session chairs, invitations extended to special speakers and any other correspondence or minutes of general interest.

3. Head tables are composed of persons active in the organization of the conference (i.e. the General Chair) in addition to the guest speaker.

4. Session Chairs are the foundation of the meeting. They are responsible for keeping in close contact with the authors and ensuring a timely and effective schedule. Keep your chairs informed.

5. Responsibility for preparing a Speakers’ Kit for the meeting is typically given to the Technical Chair. The Speakers’ Kit includes the Technical Paper Guidelines which describe the format that is to be used for papers and presentations. The Speakers’ Kits should also include the Assignment of Copyright Ownership and the Speaker Information Form. Templates for the Speakers’ Kit may be obtained from AHS Headquarters. The Technical Chair should forward the Speakers’ Kit to the Session Chairs, and the Session Chairs should forward it to their authors/speakers.

6. Each conference will differ in size and scope. Be careful to consider the number of simultaneous sessions, small attendance is as discouraging to an author as poor timing. Experience has shown that five (5) thirty (30) minute periods per session (20 minutes for presentation and 10 minutes discussion) works well.

7. The last paper (both author and content) deserves the same consideration as the first. Question and answer periods should be emphasized and given sufficient time following each presentation. Session Chairs are encouraged to have at least two questions ready in case no questions are forthcoming from the audience. During the question and answer period, have those asking questions stand and state their name and company. Questions should be repeated on the PA system as too often the audience hears only the answer. The Session Chair should repeat each question over the PA system when there is no audience microphone.

8. Cautions
   a) Do not make any financial commitment prior to obtaining approval.
   b) Don’t be rushed into untimely decisions. Even after approval, do not guarantee anything for which you do not have cash in hand.
   c) If security is involved, maintain all required precautions.

9. Remember to send letters of thanks/appreciation from the General Chair and to all staff, supporters, speakers, etc.

10. The General Chair and all committees should keep well documented records of all activities. These reports should be held for future use by succeeding General Chairs. Reports on the meeting registration, average attendance, number of papers, panels and exhibits should be sent to the Technical Director and AHS Headquarters.

11. A full copy of the Proceedings should be sent to AHS Headquarters.

**SPECIAL ADDITIONAL REMINDERS**

If the organizers include the name of any person in any publicly available material as being associated with the meeting in any capacity (e.g., an endorser, a member of a technical or advisory committee), the organizers MUST have obtained explicit permission from that person.

Typically, the Staff at AHS Headquarters is available to assist in support of such tasks as creation and printing of Calls for Papers and/or Programs and online registration. An on-site registrar from AHS Headquarters will be available (or two if over 120 attendees are expected). However, meeting organizers should contact the AHS Deputy Director as soon as the meeting is approved to set up the details.

**Technical Chair:** Be sure to contact your session chairs to coordinate issuance of “Speaker Kits”. Solicit help from the Technical Committees from the specialties involved. A Speaker Kit template is available from Headquarters.

**Session Chairs:** Coordinate with the Administrative Chair to ensure;
   a) Emergency fire exits are adequate: their locations and emergency instructions are included in the final program and announced at the start of each session.
b) The screen height and tilt is set so the whole audience can see. Make sure the entire picture appears on the screen and is in focus.
c) No phones or other distractions are located in the meeting room.
d) If coffee is served, set it up away from the entrance and in more than one area to prevent long lines and the obstruction of the entrance.

Schedule papers at ¼ hour intervals and stay on schedule so attendees can move from one paper to another in the case of concurrent presentations.

ADMINISTRATIVE CHECK LIST

Commitments: Make no binding agreements prior to receipt of approval by AHS.

Food/Beverage: Never guarantee more than paid receipt. Arrange for the hotel to be responsible to contact only you for food and beverage guarantees. Find out how much the hotel “sets” (usually 5-10% over the guarantee). Then guarantee only paid registrants less that percentage. As more individuals register you can increase your guarantee. Be conservative, you will have no-shows.

Suggested food and beverage start times are:

- Speakers Briefings: 8:15 – 8:30 a.m.
- Luncheons: 12:00 – 12:30 p.m.
- Social: 6:00 – 6:30 p.m.
- Banquet/Dinner: 7:00 – 7:30 p.m.

Do not plan a luncheon for the last day unless followed by technical sessions – few will attend. Regarding number of people at Head Tables: For Luncheons, it is suggested to limit it to 6; for Banquets, limit the number to 8 to 10. Except for the guest of honor (speaker), personally extend invitations at the meeting so attendance is assured. Coordinate with the other Chairs of the meeting to assure there is no overbooking of the number of people invited to sit at a Head Table.

Transportation/Field Trips: For plant tours, contact the company sponsor to see if they will furnish the transportation. Otherwise, contact at least two (2) bus companies. Determine bus capacity, minimum hours, cost per hour, routes, mileage charges, luggage space, and lead time for a firm commitment. For short hauls, consider school bus companies. For longer hauls, use air conditioned buses. Appoint bus captains if there are more than two (2) buses or the trip is over 20 miles. Check routes, rest/coffee stops, maps, bus to bus communications, etc. Note: Set up a policy regarding use of private transportation. Special arrangements may have to be made to facilitate access to plant/tour building and parking for private vehicles. If security clearance is needed, find out what information will be required to obtain a security pass for the plant. That information should be available to attendees when they register. Obtain a Point of Contact at the plant who will receive the information requested and be sure to set a cut-off date for receipt of a clearance request.

Meeting Room Schedules: Mail preliminary schedule to hotel well ahead of the “Tie Down” meeting (an introductory meeting scheduled with those hotel personnel who will be involved with your group’s needs/activities during your symposium). Confirm this plan at this meeting. Include all requirements such as, speaker platforms, PA system, microphones, blackboards, tables, seating style, etc.

Audio Visual Requirements: These requirements should be established in the Speakers’ Kit. Projectionists may be student members, local officers, or company sponsors if hotel union regulations permit. Projectionists should be on hand one hour early on the first day and one half hour early on following days. Have speakers test the PA system. Make sure a person other than the Session Chair is assigned to regulate the volume. If space is available, a “Speaker Ready Room” should be set up, equipped with audio-visual equipment for speakers to arrange their presentations.

Reservations: After you have established a room block rate have all the attendees make hotel reservations directly to the hotel. They will usually act as a clearing house to accommodate additional reservations in other hotels if your block is sold out.

On-Site Registration by AHS Staff: Table space for on-site registration must also have space for a printer. The local chapter must furnish the printer. The printer type and model should be forwarded to the registrar well in advance of the meeting so that the appropriate printer driver can be installed on the computer before on-site registration begins. Support from the local chapter for an hour or two on the first morning is greatly appreciated, since often attendees all arrive within an hour period. Registration should begin at least one hour before the beginning of the meeting, and, if possible, registration should be open for 2-3 hours the evening before so attendees can pick up their badges and registration materials.
AHS Awards Committee

Chair

**BG Stephen Mundt (Ret.)**
Vice President, Business Development
EADS
  Telephone: (703) 236-3345
  Email: stephen.mundt@eads-na.com

Members

Technical Director
**Dan Newman**
Senior Tech Fellow, Airplane Product Development
The Boeing Company
  Telephone: (610) 772-0217
  Email: daniel.i.newman@boeing.com

Industry
**Charles Kilmain**
Director Rotor & Drive Systems Design
Bell Helicopter Textron Inc
  Telephone: (817) 280-5889
  Email: ckilmain@bh.com

Academia
**Prof. Inderjit Chopra**
Alfred Gessow Professor
University of Maryland
  Telephone: 301 405-1122
  Email: chopra@eng.umd.edu

Government
**David Friedmann**
Aerospace Engineer
U.S. Army
  Telephone: (757) 878-4330
  Email: david.friedmann@us.army.mil
Awards Procedures

DATE:         January/February
TO:           Awards Committee
RE:           Awards Procedures

Listed below are some general guidelines and deadlines to assist you in your selection of the recipients for this year’s awards.

The guidelines include:

a. A listing of the members of the committee
b. Routing information
c. A description of the awards
d. The nominations received for this year

Here are some of points to bear in mind when considering nominations for the various awards:

1. If, in the opinion of the Committee, there is no qualified candidate for a particular AHS Award the award need not be given.

2. The Sikorsky Trophy is not always in contention, since it is based upon the establishment of a new world record.

3. The Lichten Award Competition is handled separately within the AHS regions. The recipient is selected by the Technical Director and Technical Council.

4. The Nikolsky Lectureship is handled by the Awards Committee at an earlier date.

5. A candidate receiving several nominations for a particular award should be given special consideration.

6. A candidate receiving nominations for several awards should also be given special consideration, but should be selected for one (e.g. the Bell and Hughes, Klemin and Honorary Fellowships, and Feinberg and Kossler wards have some common aspects).

7. Because of the bylaws’limit of two Honorary Fellowships per year the AHS Board has directed that “Technical Fellow” Awards be made available for additional members who also deserve recognition. The recipient will receive a certificate and be honored at the Annual AHS Awards function (they will not receive lifetime membership in the Society). The total number of “fellow” Awards (Honorary & Technical combined) will amount to no more than one per 1,000 voting members of the AHS. (This year’s average of 5,800 members is rounded out to 6,000 which means that four (4) Technical Fellow Awards may be added to the two Honorary Fellow awards this year).

8. If you feel that someone nominated for one award would be better suited to receive another, please voice your recommendations to the Committee Chair.

Please note the deadline dates below. Your prompt response would be appreciated. Remember to send your response to the Chair of the Awards Committee, with a copy to the Executive Director.

i. Final Nominations forwarded to Award Committee Members from AHS headquarters: mid-February.

ii. Final Selections from the Awards Committee to AHS Headquarters: late February/early March.

iii. Award letters signed by Chair: early-March.

AHS headquarters will circulate the award letters, a press release and make the final arrangements for presentation of the awards at the Forum. It is important to follow these deadlines as closely as possible as the awards must be prepared in time for presentation. Should you have any questions or problems, please do not hesitate to contact Liz Malleck at AHS headquarters at 703-684-6777 Ext. 107 or 1-855-AHS-INTL.
Thank you in advance for your cooperation. Additional nominations received at headquarters after the cut-off date will be forwarded if time permits.

**NOTE:** Nominations with a large number of endorsements are generally carbons of the original. Where personal comments have been included, the endorser’s comment/letter will be enclosed.

Enclosures
I have reviewed the nominations, and listed below are my preliminary recommendations for recipients of the Society’s awards for this year. Recommendations should be listed in order of choice. All candidates should be listed in this preliminary recommendation.

GROVER E. BELL

FREDERICK L. FEINBERG

AHS HONORARY FELLOW

AHS FELLOWS

PAUL E. HAUETER

HOWARD HUGHES

DR. ALEXANDER KLEMIN

CAPT. WILLIAM J. KOSSLER

HARRY T. JENSEN
GRUPPO AGUSTA INTERNATIONAL FELLOWSHIP

FRANCOIS XAVIER BAGNOUD VERTICAL FLIGHT

AHS SUPPLIER EXCELLENCE AWARD

ROBERT L. PINCKNEY

JOHN J. SCHNEIDER HISTORICAL ACHIEVEMENT AWARD

[The Sikorsky, Nikolsky and Lichten Awards are handled separately.]

Name: ___________________________ Date: ___________________________

Comments: ___________________________
The title of **TECHNICAL FELLOW** is granted to Society members whose career-based accomplishments towards the goals and objectives of the vertical flight community constitute an outstanding technical achievement. Under award guidelines, up to four Fellows may be recognized in any single year.

1986  Philip Landi, Joseph Mallen, John Ward  
1987  Dora D. Strother, Leonard M. (Jack) Horner  
1988  William P. Brown, Lt. Gen Donald Pihl  
1989  MG Ronald K. Andreson, Peter J. Arcidiacono, Peter Wright, Sr., Motoi Yoshiwaka  
1990  Richard L. Ballard, Francis X. Caradonna, Norman B. Hirsh, Ray D. Leoni  
1991  Dean C. Borgman, Armand L. Coppe, Bruno Lovera, Franklin D. Robinson, Sergei I. Sikorsky  
1992  Bruce B. Blake, John (Jack) Diamond, Kenneth C. Mard, Dr. Michael P. Scully  
1993  James Davis, Nicholas C. Kailos, Frederic H. Schmitz, John Schneider  
1994  Troy M. Gaffey, Wesley L. Harris, Nicholas D. Lappos, Marat N. Tischenko  
1995  Leo Dadone, Dr. John W. Levertown, James Satterwhite  
1996  Carl O. Albrecht, Dr. Inderjit Chopra, Frank L. Jensen, C. Thomas Snyder  
1997  Eugene Buckley, Stuart D. Dodge, Dr. William H. "Bud" Forster, Albert L. Winn  
1998  Kenneth J. Kelley, Ren Pierpoint, Dr. Daniel P. Schrage, Robert Wiesner  
1999  Dr. Akira Azuma, Richard S. Stansbury, Frank Tarzanin, Jr., Theodore E. Dumont  
2000  Prof. Norman D. Ham, Hidehiko Obayashi, Dr. Robert A. Ormiston, Terry D. Stinson  
2001  Samuel R. Hurt, David L. Key, Dr. Sergei Mikheyev, Dr. William G. Warmbordt  
2002  Jean-Francois Bigay, William G. Bousman, Dr. Howard C. Curtiss, Jr., Dr. David A. Peters  
2003  Philip J. Dunford, Dr. Peretz P. Friedmann, Dr. Dewey H. Hodges, Bruce F. Kay  
2004  David O. Adams, Dr. Richard L. Bennett, Dr. Gopal H. Gaonkar, Dr. Arvind Sinha  
2005  Donald S. Antilla, Yoshiyuki Niwa, Dr. Wayne Johnson and Dr. Chee Tong  
2006  MAJ GEN Anthony P. Fraser, Dr. J. Gordon Leishman, Dr. T. Kevin O'Brien, Dr. Mark Tischler  
2007  Dr. Edward Smith, Dr. Michael S. Torok, Sandra Marie Hoff, Mark E. Dreier, Bernd Gmelin  
2008  Dr. Robert F. Handschu, Robert Moffitt, David Matuska, Robert Flemming  
2009  Dr. Samuel T. Crews, Dr. Peter F. Lorber, Dr. Karen E. Jackson, David Haas, Thomas L. Wood  
2010  Harold Rosenstein, James Howlett, Dr. Feridoun Farassat, David Popelka  
2011  Prof. Lakshmi N. Sankar, Wayne R. Mantay, Martin Peryea, Robert Blackwell  
2012  1957  Kurt H. Hohenemser  
1958  Leon L. Douglas  
1959  Igor I. Sikorsky  
1960  U.S. Army Aviation School, Ft. Rucker  
1961  Sikorsky Aircraft, Engineering Team  
1962  U.S. Army Aviation Center, Ft. Rucker  
1963  U.S. Army 11th Air Assault Division, Ft. Benning  
1964  No award presented  
1965  Paul J. Carpenter  
1966  U.S. Air Force Air Rescue & Recovery Service  
1967  Edwin J. Ducayet & Bell's HUEY/COBRA Team  
1968  Sikorsky Aircraft, Flying Crane Concept  
1969  AVLABS  
1970  Sikorsky Aircraft, S-67 Black Hawk  
1971  Boeing Vertol, Model 347 Team & Hughes Tool, Engineering Team  
1972  Jan M. Drees  
1973  No award presented  
1974  No award presented  
1975  Thomas H. Sanders  
1976  Sikorsky Aircraft, ABC Concept  
1978  Hughes Helicopters, AH-64 Tech. Team & Sikorsky Aircraft, UH-60 Tech Team  
1979  Wesley L. Cresap  
1980  No award presented  
1981  XV-15 Project Team  
1982  Dr. Wayne R. Johnson  
1983  Boeing Vertol Simulation Lab  
1984  U.S. Army ATL, Ft. Eustis  
1985  Army Applied Technology Laboratories/Sikorsky Aircraft ACAP Team  
1986  Franklin D. Harris, Bell Helicopter Textron  
1987  Boeing Vertol Company, U.S. Army Applied Technology Directorate  
1988  Sikorsky Aircraft, UTC Systems Technology, Inc.  
1989  Sikorsky Aircraft UTC (Shadow) Team  
1990  No award presented  
1991  Bell Helicopter Textron 4BW Team  
1992  George T. Singley, III and the U.S. Army Rotocraft Centers of Excellence: Georgia Institute of Technology, University of Maryland, Rensselaer Polytechnic Institute  
1993  NASA Full Scale Aerodynamics Complex  
1994  NASA Full Scale Aerodynamics Complex  
1995  U.S. Army Aeroflightdynamics Directorate & NASA Ames UH-60 Airloads Program
Since 1961, the **FREDERICK L. FEINBERG AWARD** has been presented to the helicopter pilot or pilots of a vertical flight aircraft who accomplished the most outstanding achievement in the preceding year. It honors the memory of an outstanding helicopter test pilot and an exemplary man. The award consists of a stipend ($200), the engraving of the recipient’s name on a plaque, and an individual plaque. This award honors the memory of an outstanding helicopter test pilot and an exemplary person.

1960  MAJ William G. Davis, USA & CPT Walter J. Hodgson, USAF
1961  Link Lucket
1962  LTC F. M. Carney, USAF
1963  LT Robert W. Grafton, USN & CPT Louis K. Keck, USMC
1964  Winford Alan Newton
1965  COL George P. Seneff, USA
1966  Delford M. Smith
1967  Robert G. Ferry
1968  CPT Jerome R. Daly, USA
1969  Ronald L. Diggins
1970  1st LT Joseph P. Donovan, USMC
1971  Louis M. Hartwig
1972  LCDR Paul R. Lewis, USCG
1973  Henry Whitfield
1974  Azel J. Hutto, Jr.
1975  MAJ Eugene L. Richardson, USA
1976  LCDR Joseph L Crowe, Jr., USCG
1977  Ramon J. A. Gibson
1978  LT James D Stiles
1979  Walter J. Hodgson (posthumously)
1980  Dorman A. Cannon & Ronald G. Erhart
1981  LT John P. Currier, USCG
1982  CPT Stephen Kee & CWO George Chrest, USA
1983  John J. Shapley
1984  MAJ Edward C. Traasdahl, USMC
1985  COL Robert L. Stewart, USA
1986  John S. Tulloch & A. Lynn Freisner
1987  U.S. World Helicopter Championship Team
1988  Charles A. Parlier & W. Edward Wilson
1989  Nicholas Lappos
1990  LT David R. McCormick, USCG
1992  U.S. Marine Corps HMH 461
1993  Leo Meslin & Dwayne Williams
1994  U.S. Coast Guard Crew of HH-60J CG 6008
1995  Ray Eche, Doug Pense & Dave Wright, Era Aviation
1996  Jon S. Dickens
1997  No award presented
1998  The Pilot Staff of the RAH-66 Comanche Combined Test Team
1999  Bell, Boeing, NAWCAD V-22 Tiltrotor Pilot Staff
2000  The NRTC/FAA/Industry DGPS Rotorcraft Precision Terminal Procedures Program
2001  The U.S. Coast Guard Seabreeze I Rescue Aircrews, North Carolina
2002  U.S. Marine Corps 15th & 26th Marine Expeditionary Units, Camp Rhino Insertion Aircrews
2003  Republic of China Air Force Super Blue Hawk S-70) Rescue Crews
2004  Roy Hopkins II
2006  U.S. Navy Blackhawks Squadron, HM-15
2007  Aircrew of Dustoff 57 – Operation Mountain Lion
2008  Jennifer Murray and Colin Bodill
2009  Crew of Coast Guard Rescue Helicopter CGNR
2010  Roy Hopkins and Jeffrey S. Greenwood
2011  Kevin Bredenbeck, X2 Technology Demonstrator
2012  Lt Scott F. Chirgwin, USN

The **AGUSTAWSLANT INTERNATIONAL HELICOPTER FELLOWSHIP AWARD** is given for significant contributions to international vertical flight cooperation. Established in 1989, the award honors the memory of Paolo Bellavita, whose career at Gruppo Agusta was marked by his dedication to furthering international cooperation in the world of vertical flight. The honoree receives a scale replica of the award, a statue of Pegasus.

1989  John F. Zugschwert
1990  Ian C. Cheeseman
1991  James Erickson, John J. Shapley, Robert Weaver and FAA Rotocraft Directorate Regulations Group
1992  Marat Tischenko
1993  Sergei I. Sikorsky
1994  U.S. Army Aeroflightdynamics Directorate
1995  International Individual Blade Control Program
1996  Higher-Harmonic Control Aeroacoustic Rotor Test Program Team
1997  Helmut Huber
1998  Barney O’Shea
The American Helicopter Society's **Paul E. Haueter Award** was instituted in 1966 and is given for an outstanding technical contribution to the field of vertical take-off and landing aircraft development other than a helicopter. The award honors an aeronautical engineer, devoted public servant, and AHS officer who was instrumental in fostering the early development of VTOL aircraft in the United States. The award consists of a large plaque on which is inscribed the name of each winner, and a plaque for the recipient.

The title of **Honorary Fellow** is granted to highly distinguished Society members who have made exceptional leadership, innovative or technical contributions that have significantly advanced the AHS and the vertical flight community during their career. The granting of Honorary Fellows is in perpetuity, and a certificate and life membership in the Society is given to each Honorary Fellow elected. No more than two such awards are given in any single year.
The HOWARD HUGHES AWARD is given for an outstanding improvement in fundamental helicopter technology brought to fruition during the preceding year. The award is intended to foster accomplishments in the basic science and technology disciplines of the vertical flight community, such as aerodynamics, dynamics, structures, propulsion, human factors, electronics, simulation, testing and systems integration. The award was established in 1977 by Hughes Helicopters to honor the memory of Howard Hughes and his pioneering accomplishments in aviation. It consists of a large silver bowl engraved with the recipients name and accomplishment and an individual medal for each winner.

1976 Heinrich K. Adenstedt, Wayne Wiesner & Harry Lounsbery
1978 Jan M. Drees & Dr. Alfred Gessow
1979 Leon L. Douglas & Evan A. Fradenburgh
1980 Charles C. Crawford Jr., Franklin D. Harris & Dr. W. Laurence LePage
1981 MG Story C. Stevens, USA & John B. Wheatley
1982 James F. Atkins & Wieslaw Z. Stepniewski
1983 William J. Crawford, III & Raymond W. Prouty
1984 Jack G. Real & Robert Zincone
1985 Kenneth Amer & Fred Smith
1986 David S. Jenney & Richard B. Lewis
1987 Paolo Bellavita & William Kuczynski
1988 Thomas L. House & Andrew W. Kerr
1989 Julian L. Jenkins Jr. & Andrew H. Logan
1990 W. Euan Hooper & Kenneth M. Rosen
1992 Dean E. Cooper & Barnes W. McCormick
1993 Dev Banerjee & Allen Schoen
1994 Dean C. Borgman, Emmett Knight & John Shaw
1995 Robert J. Huston & Gary P. Smith
1996 Robert D. Powell, Jr. & Dr. Jing Yen
1997 Webb F. Joiner & William J. Snyder
1998 Gary F. Rast & Dr. Andrew Z. Lennios
1999 Marc Sheffller & Motoi Yoshiwaka
2000 George T. Singley, III & S. Michael Hudson
2001 Myron Michael Kawa, Jr. & Harry Pember
2002 Roger A. Krone & David J. Weller
2003 John R. Murphey & Akira Sato
2004 Dr. Tomoari Nagashima & Cecil Richardson
2005 Dr. W. J. McCroskey
2006 Dennis R. Halwes
2007 McDonnell Douglas NOTAR Team
2008 Boeing Helicopters 360 Team
2009 Boeing-Sikorsky Fantail Team
2010 The Sikorsky Aircraft Advanced Growth Blade Team
2011 Advanced Technologies, Inc.
2012 Dr. Inderjit Chopra & Roy G. Fox
2013 AHS/NASA Rotocraft Noise Reduction Team
2014 The Japan OHX Engineering Team
2015 Dennis P. McGuire
2016 No award presented
2017 The Sikorsky Honeywell S-76 Enhanced Ground Proximity Warning System Team
2018 The NASA Tiltrotor Aeroacoustic Code (TRAC) System Development Team
2019 The Sikorsky S-92 Flaw Tolerance Design & Test Team
2020 Higher Harmonic Control Aeroacoustic Rotor (HART II) Test & Analysis Team
2021 The Sikorsky Active Vibration Control Team
2022 Sikorsky Rotor Ice Protection System (RIPS) Development Team
2023 Army/NASA/Bell QTR Aeroelastic Test Team
2024 U.S. Army Network Centric Operations (NCO) Technology Development Team
2025 The MH-47E Structural Usage Monitoring Systems Team
2026 U.S. Army Special Operations Helicopter Design & Development Team
2027 The Sikorsky Aircraft Advanced Growth Blade Team
2028 The Japan OHX Engineering Team
2029 SMART Rotor Team
2030 AH-64D Apache Block II Development Team
2031 Sikorsky X2 Technology Demonstrator Team
2032 X3 Team Lead by Jean-Jacques Ferrier

Since 1986, the Society has given the HARRY T. JENSEN AWARD for an outstanding contribution to the improvement of vertical flight aircraft reliability, maintainability, and/or safety through improved design brought to fruition during the preceding year. Established by Sikorsky Aircraft, the award honors Harry Jensen’s contributions to enhance helicopter qualification, structural reliability and safety.

1986 NAVAIR/Boeing Vertol Co. CH-46 Team
1987 Thomas Dixon
1988 Intelligent Fault Locator Team McDonnell Douglas Helicopter Co.& U.S. Army’s ARTA’s AATD
1989 Roy Fox
1990 James D. Cronkhite
1991 James W. Turnbow, Ph.D.
1992 Joseph P. Cribbins
1993 The Teams of Bristow Helicopters/Westland Helicopters Ltd./Helikopter Service A/S/Stewart Hughes Ltd.
1994 U.S. Army Aviation Technical Test Center
1995 Sikorsky Technical Support Services Team
1996 No award presented
1997 Sikorsky Cost Reduction Team
1998 The MH-47E Structural Usage Monitoring Systems Team
<table>
<thead>
<tr>
<th>Year</th>
<th>Team/Project Description</th>
<th>Award Year</th>
<th>Award Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>Boeing Apache Longbow IETM Team</td>
<td>1983</td>
<td>Robert R. Lynn</td>
</tr>
<tr>
<td>2001</td>
<td>The NRTC/RITA Crash Safety &amp; Navy Water Impact SBIR Team</td>
<td>1985</td>
<td>Richard M. Carlson</td>
</tr>
<tr>
<td>2002</td>
<td>Cockpit Air Bag System Development Team</td>
<td>1986</td>
<td>Jack G. Real</td>
</tr>
<tr>
<td>2004</td>
<td>NRTC/RITA Damage Tolerance Technology Team</td>
<td>1988</td>
<td>Charles W. Ellis</td>
</tr>
<tr>
<td>2005</td>
<td>The Sikorsky UH-60M Automatic Flight Control Team</td>
<td>1989</td>
<td>Joseph Mallen</td>
</tr>
<tr>
<td>2006</td>
<td>Joint Advanced Health and Usage Monitoring System Advanced Concept Technology Demonstration Team</td>
<td>1990</td>
<td>Dr. Kurt Pfleiderer</td>
</tr>
<tr>
<td>2010</td>
<td>Black Hawk Survivability Team</td>
<td>1993</td>
<td>Frank Robinson</td>
</tr>
<tr>
<td>2011</td>
<td>Boeing Active Crash Protection System Development Team</td>
<td>1994</td>
<td>Dr. Kenneth M. Rosen</td>
</tr>
<tr>
<td>2012</td>
<td>COL. Greg Masiello, USMC</td>
<td>1995</td>
<td>Dr. Marat N. Tischenko</td>
</tr>
</tbody>
</table>

Created in 1951 by industry pioneer Frank Piasecki, the **DR. ALEXANDER KLEMIN AWARD** is the highest honor the AHS bestows on an individual for notable achievement in advancing the field of vertical flight aeronautics. The award honors the memory of an eminent aeronautical engineer, educator, author, and outstanding pioneer in rotary wing aeronautics.

<table>
<thead>
<tr>
<th>Year</th>
<th>Award Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1951</td>
<td>Igor I. Sikorsky</td>
</tr>
<tr>
<td>1952</td>
<td>Louis Breguet</td>
</tr>
<tr>
<td>1953</td>
<td>Raoul Hafner</td>
</tr>
<tr>
<td>1954</td>
<td>Michael Gluhareff</td>
</tr>
<tr>
<td>1955</td>
<td>Bartram Kelley</td>
</tr>
<tr>
<td>1956</td>
<td>Charles H. Zimmerman</td>
</tr>
<tr>
<td>1957</td>
<td>Dr. Peter G. Hamel</td>
</tr>
<tr>
<td>1958</td>
<td>Walter G. Sonneborn</td>
</tr>
<tr>
<td>1959</td>
<td>V. Keith Putnam</td>
</tr>
<tr>
<td>1960</td>
<td>Leon L. Douglas</td>
</tr>
<tr>
<td>1961</td>
<td>BG Robert R. Williams, USA</td>
</tr>
<tr>
<td>1962</td>
<td>Frederick B. Gustafson</td>
</tr>
<tr>
<td>1963</td>
<td>Elliot Daland</td>
</tr>
<tr>
<td>1964</td>
<td>LTG William B. Bunker, USA</td>
</tr>
<tr>
<td>1965</td>
<td>Dr. Anselm Franz</td>
</tr>
<tr>
<td>1966</td>
<td>Rene H. Miller</td>
</tr>
<tr>
<td>1967</td>
<td>Charles Marchetti</td>
</tr>
<tr>
<td>1968</td>
<td>Dr. Kurt H. Hohenemser</td>
</tr>
<tr>
<td>1969</td>
<td>LTG A. G. Bunker, USMC</td>
</tr>
<tr>
<td>1970</td>
<td>Dr. Anselm Franz</td>
</tr>
<tr>
<td>1971</td>
<td>Robert A. Wagner</td>
</tr>
<tr>
<td>1972</td>
<td>LTG W. D. Bunker, USA</td>
</tr>
<tr>
<td>1973</td>
<td>Edward J. Ducayet</td>
</tr>
<tr>
<td>1974</td>
<td>LTG W. D. Bunker, USA</td>
</tr>
<tr>
<td>1975</td>
<td>LTG A. G. Bunker, USMC</td>
</tr>
<tr>
<td>1976</td>
<td>Dr. Anselm Franz</td>
</tr>
<tr>
<td>1977</td>
<td>LTG W. D. Bunker, USA</td>
</tr>
<tr>
<td>1978</td>
<td>LTG W. D. Bunker, USA</td>
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<tr>
<td>1979</td>
<td>LTG W. D. Bunker, USA</td>
</tr>
<tr>
<td>1980</td>
<td>LTG W. D. Bunker, USA</td>
</tr>
<tr>
<td>1981</td>
<td>LTG W. D. Bunker, USA</td>
</tr>
<tr>
<td>1982</td>
<td>LTG W. D. Bunker, USA</td>
</tr>
</tbody>
</table>

The **CAPTAIN WILLIAM J. KOSSLER, USCG AWARD**, established in 1951, is given for the greatest achievement in the practical application or operation of a vertical flight aircraft, the value of which has been demonstrated by actual service during the preceding calendar year. The award honors the memory of a US Coast Guard airman, aeronautical engineer, and early advocate of helicopters in search and rescue operations.

<table>
<thead>
<tr>
<th>Year</th>
<th>Award Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1951</td>
<td>COL Richard T. Knight, USA</td>
</tr>
<tr>
<td>1952</td>
<td>LTC Jack Marinelli, USA</td>
</tr>
<tr>
<td>1953</td>
<td>LTC George W. Heering, USMC</td>
</tr>
<tr>
<td>1954</td>
<td>RADM Clarence E. Ekstrom, USN</td>
</tr>
<tr>
<td>1955</td>
<td>Carlisle C. Agar, Okanagan Helicopters</td>
</tr>
<tr>
<td>1956</td>
<td>Don R. Berlin; T.P. Gerrity, USA; LTG James N. Gavin, USA, VADM A.C. Richmond, USCG; LTG C. F. Schilt, USMC; &amp; RADM J.S. Russell, USN</td>
</tr>
<tr>
<td>1957</td>
<td>Robert L. Suggs, Petroleum Helicopters</td>
</tr>
<tr>
<td>1958</td>
<td>USA Trans. Aircraft Test &amp; Supply Activity</td>
</tr>
<tr>
<td>1959</td>
<td>USAF Air Rescue Svc., Scott AFB</td>
</tr>
<tr>
<td>1961</td>
<td>56th Medical Platoon, USA, Ft. Bragg &amp; 57th Medical Platoon, USA, Ft. Meade</td>
</tr>
<tr>
<td>1962</td>
<td>USA Tactical Mobilization Requirement Board, Ft. Bragg</td>
</tr>
<tr>
<td>1963</td>
<td>USA Tactical Mobilization Requirement Board, Ft. Bragg</td>
</tr>
<tr>
<td>1964</td>
<td>BG John Tolson, USA Helicopter Units, Vietnam</td>
</tr>
<tr>
<td>1965</td>
<td>BG John Tolson, USA Helicopter Units, Vietnam</td>
</tr>
<tr>
<td>1966</td>
<td>MG Harry W. O. Kinnard 1st Air Cav. Div., USA</td>
</tr>
<tr>
<td>1967</td>
<td>MG Keith B. McCutcheon, USMC</td>
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<tr>
<td>Year</td>
<td>Award</td>
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</tr>
<tr>
<td>1968</td>
<td>Armed Forces in Southeast Asia</td>
</tr>
<tr>
<td>1969</td>
<td>The Petroleum Industry</td>
</tr>
<tr>
<td>1970</td>
<td>58th Aerospace Rescue &amp; Recovery Squadron</td>
</tr>
<tr>
<td>1971</td>
<td>KLM North Sea Helicopters</td>
</tr>
<tr>
<td>1972</td>
<td>Erickson Air-Crane Co.</td>
</tr>
<tr>
<td>1973</td>
<td>Ralph P. Pass</td>
</tr>
<tr>
<td>1974</td>
<td>Colombia Air Force, HELICOL., S.A.</td>
</tr>
<tr>
<td>1975</td>
<td>No award presented</td>
</tr>
<tr>
<td>1976</td>
<td>MG Manoucher Khosrodad, Iranian Army Aviation</td>
</tr>
<tr>
<td>1978</td>
<td>British Airways Helicopters</td>
</tr>
<tr>
<td>1979</td>
<td>Colombia Helicopters</td>
</tr>
<tr>
<td>1980</td>
<td>CAPT John Crowe, Canadian Armed Forces</td>
</tr>
<tr>
<td>1981</td>
<td>U.S. Coast Guard 17th District</td>
</tr>
<tr>
<td>1982</td>
<td>Donald W. Usher &amp; Melvin (Gene) W. Windsor, U.S. Park Police</td>
</tr>
<tr>
<td>1983</td>
<td>CW3 Charles Hemphill, USA &amp; CW4 Frederick Loehmer, USA</td>
</tr>
<tr>
<td>1984</td>
<td>U.S. Coast Guard Crew #1437</td>
</tr>
<tr>
<td>1985</td>
<td>U.S. Coast Guard Crew #1469</td>
</tr>
<tr>
<td>1986</td>
<td>Colombian Helicopter Pilots</td>
</tr>
<tr>
<td>1987</td>
<td>U.S. Coast Guard Crew #1467</td>
</tr>
<tr>
<td>1988</td>
<td>LTG Crosbie E. Saint, U.S. Army</td>
</tr>
<tr>
<td>1989</td>
<td>U.S. Coast Guard Crew #1472</td>
</tr>
<tr>
<td>1990</td>
<td>ADM Paul A. Yost, USCG</td>
</tr>
<tr>
<td>1991</td>
<td>USSR Military and Civilian Helicopter Pilots Flying Initial Operations at Site of Chernobyl Nuclear Disaster, April-May, 1986</td>
</tr>
<tr>
<td>1992</td>
<td>Desert Storm First Strike U.S. Army Apache Team</td>
</tr>
<tr>
<td>1993</td>
<td>U.S. Army Task Force 159</td>
</tr>
<tr>
<td>1994</td>
<td>Walter Greaves, Era Aviation &amp; Eric Pentilla, Evergreen Helicopters</td>
</tr>
<tr>
<td>1995</td>
<td>N.Y. Air National Guard’s 106th Air Rescue Group</td>
</tr>
<tr>
<td>1996</td>
<td>Marine Corps TRAP Team</td>
</tr>
<tr>
<td>1997</td>
<td>Canadian Air Force’s 413 Squadron, Labrador 303</td>
</tr>
<tr>
<td>1998</td>
<td>The U.S. Coast Guard Flight Crew Members of Air Station Clearwater and the U.S. Air Force Reserve’s 920th Rescue Group at Patrick Air Force Base for the rescue of the Merchant Patriot</td>
</tr>
<tr>
<td>1999</td>
<td>Australian Search and Rescue Helicopters/Sydney-Hobart Yacht Race</td>
</tr>
<tr>
<td>2000</td>
<td>USMC VM-1, Search and Rescue Detachment, Cherry Point, NC</td>
</tr>
<tr>
<td>2001</td>
<td>The South African Air Force Mozambique (Operation Lichi) Helicopter Aircrews</td>
</tr>
<tr>
<td>2002</td>
<td>U.S. Air Force 56th Rescue Squadron, Keflavik, Iceland HH-60G Pave Hawk Rescue</td>
</tr>
<tr>
<td>2004</td>
<td>West Virginia Army National Guard, 146th Medical Co. (Air Ambulance) HH-60L Black Hawk Crew, Hamlin, West Virginia Flood Rescue</td>
</tr>
<tr>
<td>2005</td>
<td>Norrlandsflyg S-76 SAR Helicopter Crew, Lifeguard 996, Baltic Sea Rescue</td>
</tr>
<tr>
<td>2006</td>
<td>Army National Guard Aviation, Hurricanes Katrina and Rita</td>
</tr>
<tr>
<td>2007</td>
<td>Hong Kong Government Flying Service (GFS)</td>
</tr>
<tr>
<td>2008</td>
<td>U.S. Coast Guard HH-60J Jayhawk Air Station Astoria (Oregon) Team</td>
</tr>
<tr>
<td>2009</td>
<td>Marine Medium Tiltrotor Squadron 162 (VMM-162), Anbar Province, Iraq</td>
</tr>
<tr>
<td>2010</td>
<td>U.S. Coast Guard Air Station Kodiak MH-60J Jayhawk Aircrew</td>
</tr>
<tr>
<td>2011</td>
<td>Bravo Company 1-52nd Aviation Regiment, US Army</td>
</tr>
<tr>
<td>2012</td>
<td>C Company 1-52nd Aviation Regiment, US Army</td>
</tr>
</tbody>
</table>

The **ROBERT L. LICHTEN AWARD** is given to the author of the best technical paper presented at a regular meeting during the preceding calendar year, based upon the author’s personal contribution, originality of the work, and technical content. The award consists of a medallion and a $500 honorarium made available from the Bell Helicopter Textron contribution to the Vertical Flight Foundation.

The **ALEXANDER A. NIKOLSKY HONORARY LECTURESHP** is given to an individual who has a highly distinguished career in vertical flight aircraft research and development and is skilled at communicating their technical knowledge and experience. The selection of the lecturer is based upon the individual’s distinguished career, the significance and appropriateness of the subject matter, the ability to compose an archival lecture document, and a
willingness to present the lecture to the various regions of the Society. The award consists of a medallion and a certificate. The lecture is presented at the Annual Forum and is also published in the Journal of the American Helicopter Society.

1981 Wieslaw Z. Stepniewski
1982 Bartram A. Kelley
1983 Rene H. Miller
1984 Robert G. Loewy
1985 Alfred Gessow
1986 John Ward
1987 Jan M. Drees
1988 Kenneth B. Amer
1989 Charles C. Crawford, Jr.
1990 Rene Mouille
1991 Dr. Robin B. Gray
1992 Robert R. Lynn
1993 Kenneth I. Grina
1994 Evan Fradenburgh
1995 Bruno Lovera
1996 David S. Jenney
1997 Bruce Blake
1998 Robert J. Huston
1999 Dr. Daniel P. Schrage
2000 Professor Howard C. Curtiss, Jr.
2001 Dr. Richard M. Carlson
2002 Troy M. Gaffey
2003 Santino Pancotti
2004 Dr. Barnes W. McCormick
2005 Walter G. Sonneborn
2006 Franklin Harris
2007 Dr. Kenneth M. Rosen
2008 Dr. David Peters
2009 Dr. Frederic H. Schmitz
2010 Dr. Wayne Johnson
2011 William Bousman
2012 Prof. Gareth Padfield

The IGOR I. SIKORSKY INTERNATIONAL TROPHY, created by Sikorsky Aircraft in 1961, honors the memory of a true pioneer in aeronautics, an extraordinary engineer, designer, entrepreneur, and occasional test pilot, responsible for transforming the helicopter from the realm of the experimental to the reality of the production line. The award is given to the company or consortium that designs and builds a helicopter establishing an official world record during the preceding year in the official E-1 categories prescribed by the rules of the Fédération Aéronautique Internationale.

1961 Mikhail L. Mil Design Team
1962 Sikorsky Aircraft
1963 Sud Aviation
1964 No award presented
1965 Sikorsky Aircraft
1966 Hughes Tool Co., Aircraft Division
1967 No award presented
1968 No award presented
1969 No award presented
1970 Mikhail L. Mil Design Team
1971 Sikorsky Aircraft
1972 Sikorsky Aircraft
1973 No award presented
1974 No award presented
1975 No award presented
1976 No award presented
1977 No award presented
1978 No award presented
1979 No award presented
1980 No award presented
1981 No award presented
1982 Sikorsky Aircraft
1983 H. Ross Perot, Jr. & Jay W. Coburn
1984 No award presented
1985 No award presented
1986 No award presented
1987 Westland Helicopters Ltd.
1988 No award presented
1989 No award presented
1990 Robinson Helicopter Co.
1991 Robinson Helicopter Co.
1992 Eurocopter France
1993 McDonnell Douglas Helicopter Systems
1994 Global Helicopter Technology & LHTEC
1995 Bell Helicopter Textron-Canada
1996 No award presented
1997 Bell Helicopter Textron & Mr. Bruno Guimbal
1998 No award presented
1999 No award presented
2000 No award presented
2001 No award presented
2002 No award presented
2003 No award presented
2004 No award presented
2005 No award presented
2006 Eurocopter
2007 No award presented
2008 Bell Helicopter Textron, Inc.
2009 AgustaWestland
2010 No award presented
2011 No Award Presented
2012 Gamera Team

The FRANCOIS XAVIER BAGNOUD VERTICAL FLIGHT AWARD, created in 1992 and first known as the AHS Director's Award, is given to a Society member under the age of 35 for career-to-date outstanding contributions to vertical flight technology. The Award honors the memory of a young helicopter engineer, Swiss citizen, author and rescue pilot who founded the AHS student chapter at the University of Michigan. At 20 years of age, he published a treatise on helicopter aerodynamics. Subsequently, he developed within Europe IFR procedures for rotorcraft, and as a commercial pilot, he performed more than 300 helicopter rescue missions.

1993 Adam Sawicki
1994 Dr. Ed Smith
1995 Jeffrey C. Dudley
1996 Dr. Michael S. Torok
1997 Bryan Cotton
1998 Dr. Farhan Gandhi
1999 Andreas P. F. Bernhard
The ROBERT L. PINCKNEY AWARD is given for a notable achievement in manufacturing research and development for vertical flight aircraft or components brought to fruition in the preceding year. The Award was created by Boeing in 1995 to honor the memory of Robert L. Pinckney, an eminent manufacturing engineer.

1996 Boeing-Sikorsky RAH 66 Comanche Precision Manufacturing Team
1997 V-22 Airframe Integrated Product Team
1998 The Tandem Rotor Program Producibility Team
1999 The S-92 Development Team
2000 Split Torque Transmission Team
2001 Bell-Agusta 609 Wing Torque Integrated Product Team
2002 The Sikorsky Rotary Wing Structures Technology Demonstration (RWSTD) Team
2003 NRCT/RITA Bell-Sikorsky High Speed Machining of Titanium Team
2004 The Complex Composite Structural Concepts (CCSC) Team
2005 The Sikorsky Composite Tailcone/Stabilator Development Team
2006 No award presented
2007 Paul Oldroyd and Tricia Hiros, Bell Helicopter Textron, Inc.
2008 US Army / Sikorsky Survivable Affordable Repairable Airframe Program (SARAP) Virtual Prototype and Validation Development Team
2009 U.S. Army Aviation Applied Technology Directorate/Sikorsky RDS-21 Face Gear Development Team
2010 PROMETAL RCT/Sikorsky Digital Casting Team
2011 No Award Presented
2012 CH-53K Virtual Design Team

Established in 1995, the AHS SUPPLIER EXCELLENCE AWARD is given to a supplier who, through the quality, innovativeness and cost-effective technology of its products, has made a notable contribution to improving the state-of-the-art of vertical flight aircraft.

1996 Lord Corporation
1997 Hamilton Standard
2000 Martin-Baker Aircraft Co.
2001 The Purdy Corporation
2002 Helicopter Support, Inc.
2003 Rolls-Royce AE1107C Liberty Propulsion System Team
2004 Goodrich Corporation – Fuel & Utility Systems
2005 The Protective Materials Co.
2006 The Honeywell Aerospace Electronic Systems Business Unit
2007 The H-53 Engine Team, GE Aviation
2008 No award presented
2009 Sikorsky Aerospace Services
2010 Aero Vodochody
2011 GKN Aerospace
2012 Garmin International, Inc.

Individual Member Sponsor Contest Awarded to the member who sponsors the greatest number of new members during the contest year.

1998 Amy Curtin
1999 Amy Curtin
2000 Jesse E. Wrice, Jr.
2001 Dr. Ed Smith
2002 Robert D. Powell
2003 Kenneth Lauck
2004 Robert D. Powell
2005 Simon Atyeo
2006 Professor J. Gordon Leishman
2007 Scott Bruce
2008 Richard Millman
2009 Jeffrey A. Pino
2010 Prof. Edward Smith
2011 Robert D. Powell
2012 Dr. Ed Smith

Chapter With Greatest Percentage Member Increase Awarded to the AHS chapter with the greatest percent increase at the end of the contest period.
1998  Connecticut Valley Chapter
1999  Redstone Chapter
2000  Redstone Chapter
2001  Cherry Point Chapter
2002  Poland Chapter
2003  Patuxent River Chapter
2004  San Francisco Chapter
2005  Redstone Chapter
2006  Atlanta Chapter
2007  Australia Chapter
2008  Southwest Chapter
2009  Empire State Chapter
2010  Jake Fortner Chapter
2011  Cherry Point Chapter
2012  Arizona Chapter

*Chapter With Greatest Net Member Increase* Awarded to the AHS chapter with the greatest net growth at the end of the contest period.

1998  Hampton Roads Chapter
1999  Federal City Chapter
2000  Canada Chapter
2001  Redstone Chapter
2002  Pacific Northwest
2003  Stratford Chapter
2004  Japan Chapter
2005  Federal City Chapter
2006  Southwest Chapter
2007  Huntsville/Redstone Chapter
2008  Southwest Chapter
2009  Southwest Chapter
2010  Southwest Chapter
2011  Huntsville Chapter
2012  Federal City Chapter

*Every Member-Get-a Member Contest* Awarded to the Chapter whose members sponsor the most new members during the contest period. The Chapter will receive only one credit for each Chapter member who sponsors a new member.

1998  Philadelphia Chapter
1999  Corpus Christi Chapter
2000  San Francisco Chapter
2001  Hampton Roads Chapter
2002  Stratford Chapter
2003  Philadelphia Chapter
2004  Arizona Chapter
2005  Australian Chapter
2006  Philadelphia Chapter
2007  Stratford Chapter
2008  Southwest Chapter
2009  Southwest Chapter
2010  Federal City Chapter
2011  Philadelphia Chapter
2012  Redstone Chapter
1. The Society’s Alexander A. Nikolsky Honorary Lectureship shall be awarded to a person who reflects the highest ideals, goals, and achievements in the field of helicopter VTOL aircraft engineering and development.

2. The recipient of the Honorary Lectureship shall present a lecture to the Society covering a selected aspect of helicopter development. The Lecture will be presented at the Annual Forum or other national meeting of the Society. A written version of this lecture will be submitted to the AHS Journal for publication.

3. The recipient of the Honorary Lectureship will be presented with a medallion and a certificate at the Awards event.

4. The Honorary Lecturer will be encouraged to present the Lecture at meetings in various regions. In exceptional circumstances a stipend for this travel may be provided by the American Helicopter Society or Vertical Flight Foundation.

5. The selection of the Honorary Lecturer will be made by the Awards Committee and ratified by the Board of Directors. The Awards Committee will consider nominations from the membership, the Technical Council, and members of the Awards Committee. Selection will be made prior to the winter meeting (October) of the Board and will be subject to approval by the Board.

6. The basis for selection will include:
   a. The significance of the proposed subject matter for the lecture.
   b. The appropriateness of the proposed subject matter to the selected lecturer.
   c. The ability and acquiescence of the selected lecturer to compose a distinguished archival document.
   d. The distinguished career of the lecturer.
   e. The willingness of the lecturer to present the lecture to the various regions.

7. Nominations may only be submitted by active Society members on the official Honorary Lectureship Nomination Form. The Nomination Form should include a brief, but complete, list of the nominees' qualifications and may include suggestions as to the subject matter. However, final determination of the subject matter will be made by the Awards Committee and the recipient.

GUIDELINES FOR THE NIKOLSKY LECTURESHIP

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DATE</th>
<th>RESPONSIBILITY</th>
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<tbody>
<tr>
<td>Call for Nominations</td>
<td>August</td>
<td>AHS Headquarters</td>
</tr>
<tr>
<td>Nominations Returned to AHS</td>
<td>September</td>
<td>AHS Membership</td>
</tr>
<tr>
<td>Nominations to Awards Comm.</td>
<td>September</td>
<td>AHS Headquarters</td>
</tr>
<tr>
<td>Recommendations of Awards Comm.</td>
<td>October</td>
<td>Chair Award Comm.</td>
</tr>
<tr>
<td>Ratification by Board of Directors</td>
<td>October</td>
<td>Board Meeting</td>
</tr>
<tr>
<td>Nominee Acceptance Requested</td>
<td>November</td>
<td>AHS Headquarters</td>
</tr>
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</table>
The Alexander A Nikolsky Honorary Lectureship Nomination Form

The American Helicopter Society’s Alexander A. Nikolsky Lectureship was instituted in 1981 and is given to an individual who has a highly distinguished career in vertical flight aircraft research and development and is skilled at communicating their technical knowledge and experience.” The selection of the lecturer is based on the individual’s distinguished career, the significance and appropriateness of the subject matter, the lecturer’s ability to compose an archival lecture document and the lecturer’s willingness to present the lecture to the Society’s various regions.

The selection of the recipient will be made by the AHS Awards Committee. In the event there should not be a qualified candidate in the opinion of the committee the award will not be bestowed for that year.

Nominations may only be submitted on the official nomination form by active members of the Society. Please reproduce the form, if you are submitting more than one nomination. The nomination form should include a brief, but complete list of the individual’s qualifications and may include suggestions as to the subject matter; however, final determination of the subject matter will be made by the Awards Committee and the recipient.

The award consists of a medallion and a certificate which will be presented at the AHS Annual Forum. The lecture will be presented at the Annual Forum and the written version will be published in the Society’s Journal.

Nominations must be received by AHS Headquarters by the deadline (generally September 15th) in order to allow the recipient ample time to prepare the lecture. The recipient will be notified following ratification by the Board of Directors at the October board meeting.

Nominee’s Full Name: ______________________________________________________________________________
Nominee’s Employer: _______________________________________________________________________________
Nominee’s Job Title: ________________________________________________________________________________
Nominee’s Business Address: ________________________________________________________________________
City: _________________________________State:______  Zip____________  Country: ______________________
Nominee’s Business Tel.:__________________  Fax: _________________ Email: ______________________________
Nominee’s Proposed Topic:__________________________________________________________________________

QUALIFICATIONS:
_________________________________________________________________________________________________
_________________________________________________________________________________________________
_________________________________________________________________________________________________
_________________________________________________________________________________________________
_________________________________________________________________________________________________

Submitted By (Please Print) : _________________________________________________________________________
Affiliation: ________________________________________________________________________________________
Address: _________________________________________________________________________________________
City: ________________________________State:_____  Zip:____________  Country: _____________________
Work Tel.: ___________________  Fax: ____________________  Email: _____________________________________

(Additional pages may be used if necessary)
<table>
<thead>
<tr>
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<tr>
<td>1981</td>
<td>Wieslaw Z. Stepniewski</td>
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<td>Bartram A. Kelley</td>
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<td>1983</td>
<td>Rene H. Miller</td>
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<td>1984</td>
<td>Robert G. Loewy</td>
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<td>1985</td>
<td>Alfred Gessow</td>
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<td>1986</td>
<td>John Ward</td>
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<td>1987</td>
<td>Jan M. Drees</td>
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<tr>
<td>1988</td>
<td>Kenneth B. Amer</td>
</tr>
<tr>
<td>1989</td>
<td>Charles C. Crawford, Jr.</td>
</tr>
<tr>
<td>1990</td>
<td>Rene Mouille</td>
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<tr>
<td>1991</td>
<td>Dr. Robin B. Gray</td>
</tr>
<tr>
<td>1992</td>
<td>Robert R. Lynn</td>
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<td>1993</td>
<td>Kenneth I. Grina</td>
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<td>1994</td>
<td>Evan Fradenburgh</td>
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<td>1995</td>
<td>Bruno Lovera</td>
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<td>1996</td>
<td>David S. Jenney</td>
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<td>1997</td>
<td>Bruce Blake</td>
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<td>Robert J. Huston</td>
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<td>1999</td>
<td>Dr. Daniel P. Schrage</td>
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<td>2000</td>
<td>Prof. Howard C. Curtiss, Jr.</td>
</tr>
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<td>2001</td>
<td>Dr. Richard M. Carlson</td>
</tr>
<tr>
<td>2002</td>
<td>Troy Gaffey</td>
</tr>
<tr>
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<td>Santino Pancotti</td>
</tr>
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<td>2004</td>
<td>Dr. Barnes W. McCormick</td>
</tr>
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<td>2005</td>
<td>Walter Sonneborn</td>
</tr>
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<td>2006</td>
<td>Franklin Harris</td>
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<td>2007</td>
<td>Dr. Kenneth Rosen</td>
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<td>Dr. David Peters</td>
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<td>2009</td>
<td>Dr. Fredric H. Schmitz</td>
</tr>
<tr>
<td>2010</td>
<td>Dr. Wayne Johnson</td>
</tr>
<tr>
<td>2011</td>
<td>William Bousman</td>
</tr>
<tr>
<td>2012</td>
<td>Prof. Gareth Padfield</td>
</tr>
</tbody>
</table>
TO: AHS Regional Vice-Presidents

CC: AHS Technical Director
AHS Chapter Presidents
AHS Lichten Chapter Coordinators

FROM: AHS Headquarters

Subject: Lichten Award Competition

It's time to start planning your local/regional Lichten Award Competitions. The procedures for the administration of the competition including a list of past recipients and chapter/regional breakdowns are attached. Please make sure to review the procedure carefully, paying special attention to the eligibility criteria.

Please also note from the attached document that important Lichten deadline dates have remained "early" due to the "early" date for the Forum - your regional nomination needs to be submitted to AHS headquarters NO LATER THAN FEBRUARY 28 (or 29 if a leap year). Hence, it is very important you conduct your chapter and regional Lichten process in a timely fashion and set your regional deadline dates so that they meet the national deadline.

A list of AHS Chapters by Region is also attached. AHS chapter presidents and individuals identified as Lichten coordinators have also been copied on this memo - please ensure you pass on this information to any other appropriate contact within your region or chapter for action.

The Lichten Award was established to provide an incentive to AHS members who have not previously presented the results of their work at a technical forum to begin presenting their work at local and regional AHS meetings. The winner of the national Lichten Award will be invited to present his/her paper at the AHS Annual Forum & Technology Display and receive travel from anywhere in the U.S. to the Forum, complimentary registration and lodging, and a $500 honorarium sponsored by Bell Helicopter Textron, Inc. The first runner-up is given an opportunity to present at the Forum and receives complimentary registration.

Participation in the Lichten Award process has always been highly competitive. We look forward to another excellent group of authors this year. Please help to ensure that this program continues to be a success. If you have any questions about the Lichten Award process or you need information on mailing your Lichten competition notices please contact AHS headquarters at (703) 684-6777 or email kbrackins@vtol.org.

PLEASE NOTE THAT NOMINATIONS ARE TO BE SUBMITTED TO THE AHS HEADQUARTERS NO LATER THAN FEBRUARY 28 (or February 29 if a leap year).

AHS International
Tel: 703-684-6777 Ext. 103
217 N. Washington St.
Fax: 703-739-9279
Alexandria, VA 22314
Email: kbrackins@vtol.org

Attachments: Procedures for Robert L. Lichten Award
List of Past Recipients
Chapter / Regional Breakdown
1. Award Statement

The Robert L. Lichten Award was established to encourage AHS members who have not previously presented the results of their work at a national forum to begin through presentations at local and regional AHS meetings. Candidates for the Lichten Award are proposed by Regional Vice Presidents to the Technical Director and are judged by a committee comprised of members of the AHS Technical Council to determine a national winner.

AHS will furnish up to $1,500 for travel to the Forum (U.S. or international), plus hotel accommodations and Forum registration. In addition, Bell Helicopter Textron provides a $500.00 stipend in memory of Robert L. Lichten. The first runner-up is given an opportunity to present at the Forum and receives complimentary registration. The award was established in 1975 to honor the memory of Robert L. Lichten, an outstanding rotary wing engineer and the Society’s 22nd president. Robert Lichten was a skilled and dedicated worker who spent much of his career championing early tilt-wing and tiltrotor concepts until his unfortunate death in an automobile accident. Many who knew him called him the “Pioneer of Tilt Rotor Technology.”

2. Objectives

a) Encourage AHS members to begin making public the results of their work through presentations at the local level (with no requirement for a written paper prior to the initial presentation).

b) Stimulate interest in the AHS at the local level.

3. Eligibility for the Regional Competition

The award is open to any individual who:

a) was a member of the AHS during the entire competition,
b) has not previously presented a paper at a national or international meeting of a technical society (e.g., the AHS Annual Forum, annual AIAA conference, AHS Specialists Meetings/Conferences, European Rotorcraft Forum).
[Presentations at local chapter meetings of a technical society, as well as presentations to local civic organizations, are exempt from this constraint. Co-authors of papers previously presented at national or international meetings are eligible provided they were not the principal author and did not make the presentation. The “principal” author is the sole author or the individual who performed the plurality of the work being reported, not the order of names in the paper citation.]

and

c) has not served as the principal author of a previously-published, co-authored technical paper. [“Published” shall be interpreted to mean included in the proceedings of a meeting, forum, or conference of a technical society or organization (e.g., AHS, AIAA, SAE, ASME, ERF) which was conducted as a national or international event or in an archival Journal of such organizations.]

In addition,

- The presentation must be new unpublished material. Written papers are not required prior to the presentation. If the presenter is selected as the winner by the Region, a written paper must be composed for judging by the Lichten Award Selection Committee (a subset of the AHS Technical Council).

- The technical presentation should be at least 20 minutes in length.

- A single-authored presentation and subsequent paper is preferred, but co-authored presentations/papers may be eligible as long as the presenter has done the plurality of the work.

- Non-AHS Forum papers are eligible provided the meeting is held after the last day of the AHS Forum during which the winner of the competition will be presented. Papers submitted for the current AHS Forum are also eligible provided they meet all of the aforementioned requirements.

- Individuals entering the Lichten competition must submit a filled-in copy of the "Lichten Eligibility Statement", which follows, to their AHS Regional Vice President.
Questions regarding eligibility or additional issues should be directed to the AHS Technical Director.

4. Selection Process and Requirements for the National Competition

Candidate papers for this award will be proposed by the AHS Regional Vice Presidents. Each region can submit one paper. **A Region's nomination of its candidate paper must by received at AHS headquarters no later than February 28 (29 if a leap year) to be eligible for consideration.** Each region must conduct a selection process rigorous enough to produce candidates who will deliver oral presentations commensurate with the standards of the AHS Forum and who are willing to prepare a written paper on the same material that is suitable for possible publication in the *Journal of the American Helicopter Society*.

Although the preferred approach is to conduct the competitions at a Regional meeting with all the participants present, this is not mandatory. Remote chapter locations and special circumstances (such as travel restrictions) may preclude such a forum. In these situations, the Regional Vice President may work out an alternative solution at the discretion of the Technical Director (e.g., the use of video conferences or individual presentations.) The alternative solution must offer a real-time interactive venue with an audience.

The Region's candidate paper should be selected using the criteria outlined below for final selection. The Regional Vice President shall attest to this fact when submitting the nomination and also to the fact that the written text submitted for consideration fairly represents the material (and visuals) presented at the regional meeting.

The AHS Technical Director shall form and chair a Selection Committee composed of members of the Technical Council to select the best paper from those recommended by the Regions. The Selection Committee should include at least one representative from each of the following: Government, Industry, Academia. Consideration will be given to the originality, technical content, relevance of the contribution, and organization and clarity. Each member of the Selection Committee will rank the papers according to the "Individual Rating System" (see chart below). The papers will then be ranked in simple numerical order. The overall winner will be selected by numerical addition of each judge's ranking.

### Individual Ranking System

<table>
<thead>
<tr>
<th>Rating</th>
<th>Weighting Factor</th>
<th>Max</th>
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</thead>
<tbody>
<tr>
<td>Originality/Creativity</td>
<td>0 to 5</td>
<td>6</td>
</tr>
<tr>
<td>Technical Content</td>
<td>0 to 5</td>
<td>6</td>
</tr>
<tr>
<td>Relevance of Contribution</td>
<td>0 to 5</td>
<td>4</td>
</tr>
<tr>
<td>Organization and Clarity</td>
<td>0 to 5</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

To provide consistency of scoring between members of the Selection Committee, the following guidance is given for assigning a numerical score:

Each "Rating" should be an integer. Reviewers should use the following table to assist them in assigning numerical ratings. Note that the scale is only intended to be linear between 1 and 5, not between 0 and 1. Any Element that could not be graded higher than a "C" should be rated zero. The scale is designed to have an adequate number of scores available to make distinctions between the best of the best.

5. Support for the Winner

The AHS will cover travel expenses of the author who will be invited to present his/her paper at the Forum: this will include up to $1,500 air fare for travel (U.S. or international); Forum registration, and hotel accommodation (excluding food). The winner will also receive a $500 honorarium from Bell Helicopter Textron, Inc. and a plaque. The paper should be submitted to the *Journal of the American Helicopter Society* Editor for possible publication. The first runner-up is invited to present at the Forum and receives complimentary registration.

6. Lichten Award Deadline Checklist

   a) Regional Vice Presidents' Deadlines

   **Call for Presentations September/October**

   **Abstracts Due for Regional Competition October/November**
Regional Competition(s) Held November/December

Regional Nomination(s) to AHS HQ NO LATER THAN FEBRUARY 28.

b) Nominations Forwarded to AHS Technical Director on February 28.

c) Results from Technical Director to AHS HQ by March 15.

NOTE: Since most participants in the Regional Competition will not have written their paper yet, it is advisable to hold the Regional Competition no later than early December. This allows ample time for the regional winner to write a paper for submission by February 28 (29 if a leap year).

7. Regional Vice Presidents' Nomination Letter Checklist

a) Select a candidate for nomination.

b) In a nomination letter or email, attest that:

   i. The candidate meets the eligibility criteria described in Section 3 (as evidenced by submittal of a signed Eligibility Statement)

   ii. The author was selected in accordance with the process stipulated in this document.

   iii. The written text submitted for consideration fairly represents the material and visual aids presented at the regional meeting.

c) Nominations must be accompanied by at least one copy of the paper. Electronic submittal is preferred.

d) Nominations must be forwarded to AHS Headquarters and postmarked no later than February 28 to:

American Helicopter Society, International
ATTN: Lichten Nomination
217 N. Washington St.
Alexandria, VA  22314

Phone: 703-684-6777 Ext. 103
Fax 703-739-9279
Email: kbrackins@vtol.org
# Lichten Eligibility Statement

Individuals entering the competition for the American Helicopter Society’s Lichten Award must meet **ALL** six of the following criteria to be eligible for the competition. This form must be signed and submitted to your AHS Region to confirm eligibility.

| 1. | I am a current member of the AHS. |
| 2. | I have never previously presented a paper at a national or international meeting of a technical society (e.g., the AHS Annual Forum, annual AIAA conference, AHS Specialists Meetings or Conferences, European Rotorcraft Forum. Presentations at local chapter meetings of a technical society, as well as presentations to local civic organizations, are exempt from this constraint.) |
| 3. | I have never served as the principal author of a technical paper which has been previously published and/or presented at a national or international meeting of a technical society.  
   - A “principal” author is a sole author or (in the case of works with multiple authors) the individual of who performed the plurality of the work being reported. The order of names in the paper/presentation citation is not the governing criteria.  
   - “Published” shall be interpreted to mean included in  
     - the proceedings of a meeting, forum, or conference of a technical society (e.g., AHS, AIAA, SAE, ASME, ERF) which was conducted as a national or international event (vice a local or regional event), or  
     - an archival Journal of such organizations. |
| 4. | I am the principal author of the work documented in the presentation and paper being submitted. |
| 5. | This presentation is new unpublished material. |
| 6. | The work performed has not been submitted for presentation consideration at a national or international meeting of any technical society, with the exception of the following:  
   - Non-AHS Forum papers are eligible provided the meeting is held after the Forum closing date.  
   - Papers submitted for the current AHS Forum are also eligible provided they meet all of the aforementioned requirements. |

For questions or issues with respect to the above eligibility requirements, contact the AHS Technical Director.

**Entrant:**

My signature below confirms that I meet **ALL** six of the eligibility requirements described above.

<table>
<thead>
<tr>
<th>Signature</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>Printed or Typed Name</td>
<td>Phone</td>
</tr>
<tr>
<td>Email Address</td>
<td>Company or Organization</td>
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Lichten Award Procedures  
5 of 5  
Updated: 12 September 2006
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<td>Thomas W. Sheehy</td>
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<td>Debashis Banerjee</td>
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<td>David P. Chappe</td>
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<td>1979</td>
<td>Ivo Zvolanek</td>
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<td>1980</td>
<td>Kenneth P. Leighton</td>
</tr>
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<td>1981</td>
<td>Shyi-Yaung Chen</td>
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<tr>
<td>1982</td>
<td>Raymond S. Hansen, Jon P. Rogers</td>
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<td>1983</td>
<td>Todd Quackenbush</td>
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<td>1984</td>
<td>Mark Davis</td>
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<td>1985</td>
<td>Michael S. Lewis</td>
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<td>Barbara Townsend</td>
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<td>Dwayne Kimball</td>
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<td>D. Dale Davis</td>
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<td>Jeffrey Keller</td>
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<td>Bryan S. Cotton</td>
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<td>Robert L. King</td>
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<tr>
<td>2000</td>
<td>Craig P. Fuehne</td>
</tr>
<tr>
<td>2001</td>
<td>Marc Gervais</td>
</tr>
<tr>
<td>2002</td>
<td>Geoffrey Jeram</td>
</tr>
<tr>
<td>2003</td>
<td>Cheng-Ho Tho</td>
</tr>
<tr>
<td>2004</td>
<td>Jongmin Kim</td>
</tr>
<tr>
<td>2005</td>
<td>Jonathan Garhart</td>
</tr>
<tr>
<td>2006</td>
<td>J. S. Wilson</td>
</tr>
<tr>
<td>2007</td>
<td>Jonathan Mitchell</td>
</tr>
<tr>
<td>2008</td>
<td>Yvonne Fuchs</td>
</tr>
<tr>
<td>2009</td>
<td>Laura Buck</td>
</tr>
<tr>
<td>2010</td>
<td>Mohammad Ali Rafiee</td>
</tr>
<tr>
<td>2011</td>
<td>Gregory M. Neiswander</td>
</tr>
<tr>
<td>2012</td>
<td>Erez Eller</td>
</tr>
</tbody>
</table>
Past Lichten Award Winners

1976    Thomas W. Sheehy
1977    Debashis Banerjee
1978    David P. Chappe
1979    Ivo Zvolanek
1980    Kenneth P. Leighton
1981    Shyi-Yaung Chen
1982    Raymond S. Hansen, Jon P. Rogers
1983    Todd Quackenbush
1984    Mark Davis
1985    Michael S. Lewis
1986    Barbara Townsend
1987    Dwayne Kimball
1988    Brian Hamilton
1989    Duane E. Duque
1990    Joshua Gordis
1991    D. Dale Davis
1992    Hieu Ngo
1993    Carl Bauer
1994    Jeff Evernham
1995    Jeffrey Keller
1996    Andreas P.F. Bernhard
1997    Bryan S. Cotton
1998    Joseph F. Horn
1999    Robert L. King
2000    Craig P. Fuehne
2001    Marc Gervais
2002    Geoffrey Jeram
2003    Cheng-Ho Tho
2004    Jongmin Kim
2005    Jonathan Garhart
2006    J. S. Wilson
2007    Jonathan Mitchell
2008    Yvonne Fuchs
2009    Laura Buck
2010    Mohammad Ali Rafiee
2011    Gregory M. Neiswander
2012    Erez Eller
AHS Igor I. Sikorsky Human Powered Helicopter Competition

Please direct all questions on the competition and/or rules and regulations here. Thank you!

A prize of $250,000.00 is pledged by Sikorsky Aircraft Corp. for the first successful controlled flight of a human-powered helicopter that meets all of the requirements of AHS International's Igor I. Sikorsky Human Powered Helicopter Competition.

This competition shall be conducted under the following regulations and conditions laid down by the Human-Powered Helicopter Committee of AHS International and shall be witnessed by the National Aero Club (NAC), the national representative of the Fédération Aéronautique Internationale (FAI). In the United States, the national representative of the FAI is the National Aeronautic Association (NAA).

NOTE: The AHS has been advised by the Federal Aviation Administration (FAA) that, in the United States of America, registration and airworthiness certification will not be required for machines built for this competition on the assumption that all flights will be limited to close proximity to the ground and will generate no interference with air commerce. All intending entrants are strongly advised, during trials, to hold adequate insurance coverage for all third party risks and to take every precaution against injury to people and damage to property. It is expected that competitors in countries other than the U.S.A. will observe their own national flying and insurance regulations.

REGULATIONS

1. General

1.1 The prize will be awarded by the AHS to the entrant who first fulfills the conditions

1.2 Additionally, an attempt will be registered with the Fédération Aéronautique Internationale (FAI) as a World Record for Human-Powered Helicopter Flight duration.

2. Prize

The AHS Prize is $250,000 in U.S. currency.

3. Eligibility

3.1 The competition is international and is open to individuals or teams from any part of the world.

3.2 For any and all questions regarding acceptance of entries, eligibility of an entrant, pilot, crew or aircraft under the regulations, or any other matter relating to the AHS prize, the decision of the AHS is final.

3.2.1 Prior to sending judges to observe an attempt additional evidence, such as footage of and/or data showing that your rotary wing vehicle is likely to achieve flight, will need to be provided. Simply getting off the ground is a significant challenge that should not be underestimated.

3.3 All questions regarding the world record attempt will be governed by the sporting code of the FAI and rest exclusively with the NAC.

4. Conditions of Entry

4.1 Aircraft

4.1.1 The machine shall be a heavier-than-air machine. The use of lighter-than-air gases shall be prohibited.
4.1.2 The machine shall be a rotary wing configuration capable of vertical takeoff and landing in still air, and at least one member of the crew shall be non-rotating.

4.1.3 The machine shall be powered and controlled by the crew during the entire flight, including accelerating the rotor up to takeoff speed.

4.1.4 No devices for storing energy either for takeoff or for use in flight shall be permitted. Rotating aerodynamic components, such as rotor blades, used for lift and/or control are exempt from consideration as energy storing devices.

**Permissible until August 31, 2013:**

4.1.4.1 Energy storage devices, such as a flywheel, must remain in the drive system chain and cannot be used to collect/store energy when the rotor/s are not turning. A system that transfers energy from human powered input directly to the rotation of the lifting rotor/s, regardless of the number of stages or type of system used to do this, does not violate the energy storage rule. Since a flywheel can be used as a stabilizing device, then it would be acceptable to use as long as it can be proven that it is not being used to transfer energy to the main rotor/s.

**Permissible until August 31, 2013:**

4.1.4.2 Batteries that supply power to the drive system are forbidden. If batteries are used in a design then it must be proven that no energy enters the drive system from the batteries.

4.1.5 No part of the machine shall be jettisoned during the flight including the rotor spin-up and takeoff.

4.2 Crew

4.2.1 The crew shall be those persons in the machine during takeoff and flight, and there shall be no limit set to their number.

4.2.2 No member of the crew shall be permitted to leave or enter the aircraft at any time during takeoff or flight.

4.2.3 No drugs or stimulants shall be used by any member of the crew. An assurance must be given to the official observers at the time of the attempt that this requirement has been met.

4.2.4 Up to four handlers or ground crew shall be permitted to assist in stabilizing the machine during takeoff and landing, but in such a manner that they do not assist in accelerating or decelerating any part of the machine.

4.3 Ground Conditions

4.3.1 All attempts, which shall include the takeoff, shall be made over approximately level ground (i.e., with a slope not exceeding 1 in 100 in any direction).

4.3.2 All attempts shall be made in still air, which shall be defined as a wind not exceeding a mean speed of approximately one meter per second (3.6 kilometers per hour, 2.24 miles per hour, 1.94 nautical miles per hour) over the period of flight.

4.4 Flight Requirements

4.4.1 The flight requirements shall consist of hovering for one minute while maintaining flight within a 10-meter square. During this time, the lowest part of the machine shall exceed momentarily 3 meters above the ground.

4.4.2 The machine shall be in continuous flight from takeoff to landing, and at no time during the flight shall any part of the machine touch the ground.
4.4.3 A reference point on the non-rotating part of the machine will be established as a means whereby the observers can judge that the machine stayed within the confines of the 10-meter square.

4.4.4 The one minute hovering time and the momentary achievement of 3 meters altitude is required to win the AHS prize. (However, the FAI 1980 regulations specify that only the duration of the flight and a momentary achievement of 3 meters altitude will be recorded for the FAI world record attempt, making it possible to achieve a world record without satisfying the AHS prize requirements.)

4.5 Observation

Every attempt shall be observed by the NAC or by any persons authorized by them to act as observers. It may take place in the competitor’s own country if it is affiliated with the FAI. In a country not so, it could be advantageous to conduct the flight in a neighboring country which is so affiliated.

5. Applications for Entry

5.1 Entry forms shall be obtained from and returned to AHS International, 217 N. Washington Street, Alexandria, VA 22314-2538, USA, (703) 684-6777.

5.2 The entry fee shall be U.S. $15.00 (made payable to AHS International).

5.3 Each entry form shall contain an application for official observation of the competitor's attempt.

5.4 The entrant shall undertake to abide by the conditions for official observation as set out on the entry form and application for official observation and shall undertake to defray all expenses incurred in connection with the official observation of the attempt.

5.5 The following fees and charges are made by the NAA for record attempts in Class I, Human-Powered Aircraft. All attempts shall be for national and international records.

5.6 Final notice of the proposed time and place of the attempt requiring official observation may, if so desired, be sent to the AHS later than the entry form. It must in all cases be received at least thirty days before the proposed date of the attempt. This time is required by the NAC (the NAA in the U.S.) to arrange for official observation. Applications will be considered in order of receipt.

5.7 Membership in the appropriate NAC and an FAI Sporting License is required for all crew members taking part in this competition. Application forms may be obtained from the NAC or AHS. For this competition, a pilot's license is not required.

6. General Conditions

6.1. Indemnity

The entrant must execute, on behalf of himself, his crew, representatives or employees, the indemnity agreement found at www.vtol.org/hph to indemnify AHS, the NAC and the FAI against any claims.

6.2. Revision of Regulations

6.2.1 These regulations shall remain in force until such time as the AHS considers it necessary to amend them, or the prize has been won.
6.2.2 AHS International reserves the right to add to, amend or omit any of these regulations and to issue supplementary regulations.

6.3. Interpretation of Regulations

The interpretation of these regulations or any of the regulations hereafter issued rest entirely with AHS International. The entrant shall be solely responsible to the official observer for due observance of these regulations and shall be the person with whom the official observers will deal in respect thereof, or any other questions arising out of this competition.
Igor I. Sikorsky Human Powered Helicopter Competition

A prize of $250,000.00 is pledged by Sikorsky Aircraft Corp. for the first successful controlled flight of a human-powered helicopter that meets all of the requirements of AHS International's Igor I. Sikorsky Human Powered Helicopter Competition.

A one minute hovering time and momentary achievement of 3 meters altitude is required to win the AHS prize. See the official HPH Regulations at www.vtol.org for more information.

All entrants must submit a properly completed Entry Form and Indemnity Agreement prior to consideration.

Human Powered Helicopter Committee

**Chair**
Mr. Benjamin Hein
Engineer
Sikorsky Aircraft Corp
Phone: (301) 405-1142
Email: bhein@sikorsky.com

**Deputy Chair**
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Assistant Professor
University of Texas Austin
Phone: (512) 471-4186
Email: jayant.sirohi@mail.utexas.edu

**Members**
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Mr. Mark Dreier
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Mr. Robert Maciolek
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Email: bob.maciolek@boeing.com

Mr. Daniel Newman
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Mr. Matthew Tarascio
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**AHS Coordinator**
Ms. Kay Brackins
Deputy Director
AHS International
Phone: (703) 684-6777
Fax: (703) 739-9279
Email: kbrackins@vtol.org
Alfred Gessow Award for Best Paper at the AHS Annual Forum

Updated: August 2012

1. Award Statement

The Alfred Gessow Award for Best Paper prepared for and presented at the AHS Annual Forum has been established to recognize the author(s) who has prepared and presented the most significant Forum technical paper as judged and selected by his/her peers. While the quality of the archived paper is paramount in the selection process, the quality of the presentation of the material at the Forum must also be taken into account. The selected paper is presented at the European Rotorcraft Forum (ERF).

The award consists of a plaque from the American Helicopter Society and an Honorarium that will pay for travel by one author to the European Rotorcraft Forum. The Honorarium is provided by the Alfred Gessow Foundation. Complimentary registration and accommodations for the selected author are provided by the ERF. The author of each candidate paper (i.e., the paper selected as “best” by each Committee or Special Session) will receive a certificate to that effect.

2. Objectives

i. Encourage AHS members to maintain/improve technical excellence with high quality technical papers at the AHS Annual Forum.

ii. Recognize the author(s) who make significant technical contributions via their Forum papers and presentations.

3. Eligibility

To be eligible, the paper must be in general accordance with the format prescribed by the Guidelines to Authors and received by AHS (or the contractor it specifies) in time for inclusion in the Proceeding of that year’s Annual Forum. The award is open to all authors who prepare a paper for (and present it in) any Technical or Special Session at the AHS Forum. In the event of co-authors, the award will be given to the principal author provided that he/she presented the paper. If a co-author presents the paper, the co-author will be considered for presentation of the paper at the ERF. However, all co-authors will receive a plaque that recognizes their paper as the “Best Forum Paper.” The Lichten Paper Award winner is not eligible for consideration.

4. Selection Process

Technical Committees with sessions at the Forum will evaluate and score the papers from their session (or sessions). The process for evaluation and scoring is at the discretion of the Committee, but should include a subcommittee of the Committee composed of no fewer than three members from that Committee. It is suggested that the Scoring System described in Section 5 be used in the process.

The Chair of a Special Session may recommend a candidate for Best Paper, provided it meets the eligibility requirements described above. Since Special Sessions typically do not have a Committee supporting them and frequently have very few papers which meet the eligibility requirements, the Chair
of the Special Session has the latitude to define his/her own selection process. For candidates from Special Sessions, the AHS Technical Director will assign them to an appropriate Deputy Director.

Prior to the Forum, each Technical Committee or Special Session will evaluate all eligible papers in accordance with their Committee’s or Session’s process. The most highly scored papers (up to three\textsuperscript{2}) should be provided to the appropriate Deputy Director prior to the Forum to allow the Deputy Director to attempt to personally observe their presentation. Based on the quality of the presentations, each committee is free to alter its pre-Forum rank-ordering as it deems appropriate. As soon as is practical after the conclusion of a Committee’s session(s), but no later than seven days after the end of the Forum, each Committee/Session is to provide its final selection of its Best Paper to its Deputy Director.

Each Deputy Director will then select the best paper from his/her Technical Area and forward the candidate to the AHS Technical Director. When submitting the selection for Best Paper from his/her Technical Area, each Deputy Director must attest to the quality of the presentation of the paper. Recognizing the potential difficulty for a Deputy Director to attend presentations of all of the most highly-scored papers, that judgment of presentation quality may be based on either the Deputy Director’s personal observation of the presentation or an assessment from the appropriate Committee. Who makes the assessment of presentation quality is not critical; it is just critical that the assessment be made. Who makes the assessment should be agreed upon by the Deputy Director and each of his/her Committees prior to the Forum.

The AHS Technical Director will form a Review Committee which is chaired by himself/herself and includes representatives from industry, government, and academia to make the final selection of “Best Paper of the Forum.”

5. **Scoring System**

At each evaluation level, the scoring system outlined below should be used for ranking the candidate papers.

<table>
<thead>
<tr>
<th>Element</th>
<th>Rating</th>
<th>Weighting</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Originality/creativity</td>
<td>0 to 5</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>2. Technical Content</td>
<td>0 to 5</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>3. Relevance of Contribution</td>
<td>0 to 5</td>
<td>4</td>
<td>20</td>
</tr>
<tr>
<td>4. Organization and Clarity</td>
<td>0 to 5</td>
<td>4</td>
<td>20</td>
</tr>
</tbody>
</table>

**Total**

100

Each “Rating” should be an integer. Reviewers should use the following table to assist them in assigning numerical ratings. Note that the scale is only intended to be linear between 1 and 5, not between 0 and 1. Any Element that could not be graded higher than a “C” should be rated zero.
<table>
<thead>
<tr>
<th>Score</th>
<th>Adjectives and Guidance Corresponding to Numerical Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Excellent, Outstanding, Nearly Perfect, World Class, Breakthrough (an “A+”)</td>
</tr>
<tr>
<td>4</td>
<td>Superior, Very Impressive; not a “5”, but certainly better than a “3” (an “A”)</td>
</tr>
<tr>
<td>3</td>
<td>Very Good, Particularly Noteworthy, Very Promising (a “B+”)</td>
</tr>
<tr>
<td>2</td>
<td>Good; not a “3”, but definitely better than a “1” (a “B”)</td>
</tr>
<tr>
<td>1</td>
<td>Adequate, Potentially Promising (a “C+”)</td>
</tr>
<tr>
<td>---</td>
<td>........................................................................</td>
</tr>
<tr>
<td>0</td>
<td>Marginal, Poor, None, Non-existent, Not qualified (a “C” or less)</td>
</tr>
</tbody>
</table>

For scoring within a Technical Committee, any paper which has an element rated “zero” should be disqualified. (However, if the abstract was good enough to be selected, the chances of an element being rated zero should be quite small.) For scoring by the Deputy Directors and subsequently by the Technical Director’s Review Committee, all of the papers are expected to be quite good, or they would not have advanced so far in the competition (i.e., no zeros would be expected). Therefore, the scale is designed to have an adequate number of scores available to make distinctions between the best of the best.
6. **Schedule for Selection Process**

The detailed steps in the selection process are listed below:

<table>
<thead>
<tr>
<th>Step</th>
<th>Date</th>
<th>Responsibility</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not later than the final date for submittal of papers to the Proceedings’ web site</td>
<td>Tech Committee Chair in consultation with Session Chair(s)</td>
<td>Establish selection process for their Committee</td>
</tr>
<tr>
<td>2</td>
<td>Not later than 7 calendar days before the start of the Annual Forum</td>
<td>Tech Committee or Special Session Chair</td>
<td>Provide the top three (depending on the number of sessions(^{[3]})) rated written paper(s) to Committee’s Deputy Director</td>
</tr>
<tr>
<td>3</td>
<td>At Tech Council Meeting during Forum</td>
<td>AHS Technical Director</td>
<td>Announce membership of Tech Director’s Review Committee</td>
</tr>
<tr>
<td>4</td>
<td>During the Annual Forum</td>
<td>Each Deputy Director</td>
<td>To the extent practical, observe presentation of best-ranked written papers from each of their Technical Committees</td>
</tr>
<tr>
<td>5</td>
<td>Not later than 7 calendar days after the end of the Annual Forum</td>
<td>Each Technical Committee Chair in conjunction with their Session Chair(s)</td>
<td>Provide their overall best paper to their respective Deputy Director</td>
</tr>
<tr>
<td>6</td>
<td>Not later than 7 calendar days after receipt of best paper candidate</td>
<td>Each Deputy Director</td>
<td>Select best paper from their technical area, including an endorsement of the quality of the presentation, and submit decision to AHS Technical Director.</td>
</tr>
<tr>
<td>7</td>
<td>Within 7 calendar days of receipt of Deputy Director decision</td>
<td>AHS Headquarters staff</td>
<td>Distribute selected Best Tech Area papers to Tech Director’s Review Committee</td>
</tr>
<tr>
<td>8</td>
<td>Not later than 14 calendar days of receipt of best paper candidates</td>
<td>Tech Director’s Review Committee</td>
<td>Complete reviewing and scoring of papers and make recommendation of “Best Paper of the Forum” to Tech Director and AHS Headquarters.</td>
</tr>
<tr>
<td>9</td>
<td>As soon as possible after “Best Paper” selection is announced</td>
<td>AHS Headquarters</td>
<td>Arrange for presentation of “Best Paper of the Forum” at ERF</td>
</tr>
<tr>
<td>10</td>
<td>Within 45 calendar days of the end of the Forum</td>
<td>AHS Headquarters</td>
<td>Recognize “Best Paper of the Forum” with plaques, certificates, etc.</td>
</tr>
</tbody>
</table>

Responsibilities may be delegated as appropriate or necessary as long as there is at least an email or similar document to confirm the delegation.

7. **Award**

The AHS International will provide the Alfred Gessow Honorarium to cover the travel expenses of the selected author who will be invited to present his/her paper at the European Rotorcraft Forum. This will include travel to the site of the ERF. The winner and his/her co-author(s) will also receive plaques recognizing their selection. Submittal of the Best Paper for publication in the *Journal of the American Helicopter Society* is strongly encouraged.
[1] Presenters at Special Sessions generally just present; they are not always required to prepare and submit a paper for inclusion in the Proceedings. However, if they do submit a paper prepared in accordance with the guidelines for papers in Technical Sessions and do so by the deadline, they are eligible.

[2] The number of selected written papers by a given Technical Committee or Special Session depends on the number of qualifying papers being presented at the Forum. It is expected an average of one selected written paper per seven papers (one session). No more than three recommendations should be submitted by a single Technical Committee.

[3] It is expected an average of one selected written paper per session at the Forum. Typically, a session contains seven papers.
Vertical Flight Foundation Scholarship Committee

Chair
Ms. Susan Gorton
Project Manager, Subsonic Rotary Wing
NASA Langley Research Center
Phone: (757) 864-5059
Email: susan.a.gorton@nasa.gov

Members
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Email: cbsmith@sikorsky.com

AHS Coordinator
Mrs. Holly Cafferelli
AHS International
Phone: (703) 684-6777
Email: hcafferelli@vtol.org
DATE: February

TO: VFF Scholarship Committee

FROM: AHS Headquarters

RE: VFF Candidate Selection

Three categories are considered, doctoral, graduate, and undergraduate, with winners selected in each category. The final amount distributed in any given year will depend on the balance in the Vertical Flight Foundation.

The following enclosures are provided for your consideration in recommending candidates for Vertical Flight Foundation Scholarships:

a) A list of members of the VFF Scholarship Committee

b) A routing slip for your convenience in directing your recommendations to the Chair.

c) Applications received.

Committee deadlines:

March 1 Preliminary recommendations from Committee to Chair
March 11 Final recommendations from Chair to Committee
March 25 Final recommendations to AHS

Your efforts and support are appreciated.
VFF Technical Guidelines and Application
Guidelines for Students and Professors for
Vertical Flight Foundation Technical Scholarships

The American Helicopter Society’s philanthropic arm, the Vertical Flight Foundation (VFF), was founded in 1967. The Foundation is an independent charitable trust, governed by a Board of Trustees, for the support of education in rotorcraft and vertical-takeoff-and-landing (VTOL) aircraft engineering. The Foundation’s operations are made possible solely by tax deductible donations. Each year the VFF awards scholarships to students who demonstrate an interest in pursuing engineering careers in the vertical flight industry. The Foundation has awarded nearly 400 scholarships to students from throughout the world in the four decades since it was established.

The scholarships are merit-based and are awarded once as an Undergraduate, once as a Master’s student and once as a Ph.D. student. Applicants must be in school through the full academic year following receipt of the scholarship. The value of the scholarships may range from $1,000 - $5,000 depending upon endowment earnings.

To be eligible for a scholarship, you must

Be a full-time student at an accredited school of engineering and be in school through the following full academic year.

Complete the entire Application for Scholarship (Sections I, II, III and IV). Please note that a resume is now required. Please follow the template accurately and concisely. You may download a copy of the VFF application from our website at http://www.vtol.org/files/dmfile/VFFapplication2012Fill1.pdf. Please note that you must download the form to your desktop or hard drive in order to save the application.

Please submit the application in electronic format to hcafferelli@vtol.org or you may submit the application to the Vertical Flight Foundation, 217 North Washington St., Alexandria, VA 22314-2538, USA emailed or postmarked by February 1 for the next academic year (September - June). Transcripts should also be sent to the above address.

As noted above, a resume is now required and the narrative is still required. Please indicate on the Resume Template page whether you have inserted the resume into the application document or whether it is coming in a separate email.

Submit an official grade transcript (including the most recent set of grades issued).

At least one letter of reference shall be from a professor very familiar with you and your course work. The professor should have a discussion/statement as to where you stand in regard to the students he/she has taught in his/her career and state if you are in the top 5, 10 or 25% of your class based on his/her experience with all of his/her students (past and present). It is imperative that your professor knows these updated guidelines so share this information with your professor.

Other information

The applicant need not be a member of the AHS.

Applications will be reviewed by the Scholarship Committee. The Foundation will award several scholarships annually, unless there are no qualified applicants.

Information related to the applicant’s citizenship, sex or age is used for statistical analyses only.

Scholarship recipients will be notified by the Vertical Flight Foundation by April 15th.

Weighting Factors

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience</td>
<td>35%</td>
</tr>
<tr>
<td>(work history, research, paper publications from resume)</td>
<td></td>
</tr>
<tr>
<td>Narrative</td>
<td>25%</td>
</tr>
<tr>
<td>Letter(s) of Reference</td>
<td>20%</td>
</tr>
<tr>
<td>(See guidelines for professors)</td>
<td></td>
</tr>
<tr>
<td>Academics</td>
<td>10%</td>
</tr>
<tr>
<td>Extra Curricula Activities</td>
<td>10%</td>
</tr>
<tr>
<td>(from resume)</td>
<td></td>
</tr>
</tbody>
</table>

Student Checklist – All must be postmarked or emailed before midnight on February 1

- Application
- Narrative
- Resume
- Transcripts
- Professor(s) Recommendation
Vertical Flight Foundation Engineering Scholarship

The American Helicopter Society's philanthropic arm, the Vertical Flight Foundation (VFF), was founded in 1967. The Foundation is an independent charitable trust, governed by a Board of Trustees, for the support of education in rotorcraft and vertical-takeoff-and-landing (VTOL) aircraft engineering. The Foundation’s operations are made possible solely by tax deductible donations. Each year, the VFF awards scholarships to students who demonstrate an interest in pursuing engineering careers in the vertical flight industry. The Foundation has awarded nearly 400 scholarships to students from throughout the world in the four decades since it was established.

The scholarships are merit-based and are awarded once as an Undergraduate, once as a Master’s student and once as a Ph.D. student. Applicants must be in school through the full academic year following receipt of the scholarship. The value of the scholarships may range from $1,000 - $5,000 depending upon endowment earnings.

To be eligible for a scholarship, you must

Be a full-time student at an accredited school of engineering and be in school through the following full academic year.
Complete the entire Application for Scholarship (Sections I, II, III and IV).
Submit the Application for Scholarship to the Vertical Flight Foundation, including resume, via email (below) or by mail to 217 North Washington St., Alexandria, VA 22314-2538, USA by February 1 for the next academic year (September - June). Postmarks will govern timeliness.
Submit an official grade transcript (including the most recent set of grades issued), a resume and an academic endorsement from a professor or dean at your school. Items need not be submitted with the application but must be received by FEBRUARY 1 of the award year.

Other information

The applicant need not be a member of the AHS
Applications will be reviewed by the Scholarship Committee. The Foundation will award several scholarships annually, unless there are no qualified applicants.
Information related to the applicant's citizenship, sex or age is used for statistical analyses only.
Scholarship recipients will be notified by the Vertical Flight Foundation by April 15th.
You may download a copy of the VFF application from our web site at www.vtol.org.

For additional information, contact the Vertical Flight Foundation 217 N. Washington St. Alexandria, VA 22314, USA Phone (703) 684-6777 hcafferelli@vtol.org

NOTE: A FILLABLE PDF IS PROVIDED ONLINE
APPLICATION FOR SCHOLARSHIP
SECTION I

Name: ________________________________________________________________
Sex: ________________

Present Street
Address:__________________________________________________________________
City, State, Postal Code, Country: _______________________________________________

Permanent Street Address:
________________________________________________________________________
City, State, Postal Code, Country: _______________________________________________

Current Phone No.:__________________________  Permanent Phone No.:_______________________
Email: _________________________________________________________________________
Date of Birth: _______________ Place of Birth:_________________________________________
Citizenship: _____________________________________________________________________

Please list all professional societies/associations to which you belong:
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________

I hereby certify that the information contained in this Application for Scholarship is true and correct
and that I have made arrangements on (date) ______________________________ for submission of
my official grade transcript and an academic endorsement by a dean or professor affiliated with my
school.

Name of professor___________________________ Professor's Email_______________________

Signature: _________________________________________________ Date: _________________
**Section II - Education**

Please list all colleges/universities attended, starting with the most recent first (i.e., the school you currently attend should appear on line 1)

<table>
<thead>
<tr>
<th>College/Location</th>
<th>Enrollment Date</th>
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</table>

- What level of study will you be pursuing in the fall of next year
  - □ B.S  □ M.S.  □ Ph.D.

- What is your school’s grading system?  A= ______

- If the cumulative GPA you list for the school you currently attend covers one year or less of academic work, you must submit two transcripts, one for the school you currently attend and one for the school you previously attended.

- What is your current GPA (present semester/quarter)? From _____________ to _____________
  GPA _______________

- Will you be a full time student for the entire forthcoming year?  □ yes  □ no

- If the scholarship is to be used at a school other than the one you currently attend (line 1 above), or if the scholarship is to be used for an advanced degree program at the same school, please complete the table below.

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Section III - Narrative

Please provide a narrative of the following items: (1) your past and future academic interests (including your reasons for selecting the school at which the scholarship will be used, as well as your reasons for the specific curriculum), (2) your future career interest in the rotorcraft or VTOL engineering field, and (3) other reasons for consideration. You may use an additional sheet of paper if needed. Please type your response or print legibly.
Section IV - Resume

Please attach a resume to your application using the template below. Fill out the resume template accurately and concisely. For undergraduates, any pertinent experience or history from Secondary School (high school) may be included, such as Civil Air Patrol, work in aerospace industry, etc.

Name
Address/Contact Information

For undergraduate applications include High School/Secondary School and honors/awards/activities, etc. that are germane.

Career Objective
Education
Experience/Employment history
  Rotorcraft
  Other Aerospace
  Other
Papers/Publications/Presentations (can list any theses)
  Rotorcraft
  Other Aerospace
  Other
Membership/Activities (if held an office or worked on a special project briefly describe what you did.
  Rotorcraft
  Other Aerospace
  Other (include community service)

Grants/Fellowships/Scholarships

Skills (such as languages, computing, etc.)

Anything else you would like the VFF Committee to consider

NOTES:
  • Template should be followed accurately
  • Should be in PDF or Word format
  • Research can be covered under Experience/Employment History if it has not resulted in papers, publications, and/or presentations.

I am attaching my resume with the application. Yes No
Vertical Flight Foundation Scholarship Committee

Chair
Ms. Susan Gorton
Project Manager, Subsonic Rotary Wing
NASA Langley Research Center
Phone: (757) 864-5059
Email: susan.a.gorton@nasa.gov

Members
Mr. Robert Beggs
Sr. Manager, Global Services & Support
The Boeing Company
Phone: (610) 591-8362
Email: robert.m.beggs@boeing.com

Mr. Charles Hughes
Consultant
Phone: (480) 325-3320
Email: charleswhughesjr@msn.com

Mr. John McKeown
Consultant
Phone: (540) 373-0911
Email: jcmckeown@verizon.net

Mr. George Price
Senior Subject Matter Expert
Crown Consulting, Inc.
Phone: (202) 220-3318
Email: georgeprice@cs.com

Dr. Clifford Smith
Special Projects Group Leader
Sikorsky Aircraft Corporation
Phone: (203) 386-4132
Fax: (860) 998-5677
Email: cbsmith@sikorsky.com

AHS Coordinator
Mrs. Holly Cafferelli
AHS International
Phone: (703) 684-6777
Email: hcafferelli@vtol.org
VFF Scholarship Committee Memorandum

DATE: February
TO: VFF Scholarship Committee
FROM: AHS Headquarters
RE: VFF Candidate Selection

Three categories are considered, doctoral, graduate, and undergraduate, with winners selected in each category. The final amount distributed in any given year will depend on the balance in the Vertical Flight Foundation.

The following enclosures are provided for your consideration in recommending candidates for Vertical Flight Foundation Scholarships:

a) A list of members of the VFF Scholarship Committee
b) A routing slip for your convenience in directing your recommendations to the Chair.
c) Applications received.

Committee deadlines:

March 1 Preliminary recommendations from Committee to Chair
March 11 Final recommendations from Chair to Committee
March 25 Final recommendations to AHS

Your efforts and support are appreciated.
VFF Technical Guidelines and Application
Guidelines for Students and Professors for
Vertical Flight Foundation Technical Scholarships

The American Helicopter Society’s philanthropic arm, the Vertical Flight Foundation (VFF), was founded in 1967. The Foundation is an independent charitable trust, governed by a Board of Trustees, for the support of education in rotorcraft and vertical-takeoff-and-landing (VTOL) aircraft engineering. The Foundation’s operations are made possible solely by tax deductible donations. Each year the VFF awards scholarships to students who demonstrate an interest in pursuing engineering careers in the vertical flight industry. The Foundation has awarded nearly 400 scholarships to students from throughout the world in the four decades since it was established.

The scholarships are merit-based and are awarded once as an Undergraduate, once as a Master’s student and once as a Ph.D. student. Applicants must be in school through the full academic year following receipt of the scholarship. The value of the scholarships may range from $1,000 - $5,000 depending upon endowment earnings.

To be eligible for a scholarship, you must

Be a full-time student at an accredited school of engineering and be in school through the following full academic year.

Complete the entire Application for Scholarship (Sections I, II, III and IV). Please note that a resume is now required. Please follow the template accurately and concisely. You may download a copy of the VFF application from our web site at http://www.vtol.org/files/dmfile/VFFapplication2012Fill1.pdf. Please note that you must download the form to your desktop or hard drive in order to save the application.

Please submit the application in electronic format to hcafferelli@vtol.org or you may submit the application to the Vertical Flight Foundation, 217 North Washington St., Alexandria, VA 22314-2538, USA emailed or postmarked by February 1 for the next academic year (September - June). Transcripts should also be sent to the above address.

As noted above, a resume is now required and the narrative is still required. Please indicate on the Resume Template page whether you have inserted the resume into the application document or whether it is coming in a separate email.

Submit an official grade transcript (including the most recent set of grades issued).

At least one letter of reference shall be from a professor very familiar with you and your course work. The professor should have a discussion/statement as to where you stand in regard to the students he/she has taught in his/her career and state if you are in the top 5, 10 or 25% of your class based on his/her experience with all of his/her students (past and present). It is imperative that your professor knows these updated guidelines so share this information with your professor.

Other information

The applicant need not be a member of the AHS.

Applications will be reviewed by the Scholarship Committee. The Foundation will award several scholarships annually, unless there are no qualified applicants.

Information related to the applicant’s citizenship, sex or age is used for statistical analyses only.

Scholarship recipients will be notified by the Vertical Flight Foundation by April 15th.

Weighting Factors

Experience 35%
(work history, research, paper publications from resume)

Narrative 25%

Letter(s) of Reference 20%
(See guidelines for professors)

Academics 10%

Extra Curricula Activities 10%
(from resume)

Student Checklist – All must be postmarked or emailed before midnight on February 1

☐ Application
☐ Narrative
☐ Resume
☐ Transcripts
☐ Professor(s) Recommendation
American Helicopter Society International
VERTICAL FLIGHT FOUNDATION
Educating the Vertical Flight Leaders of Tomorrow

Vertical Flight Foundation Engineering Scholarship

The American Helicopter Society’s philanthropic arm, the Vertical Flight Foundation (VFF), was founded in 1967. The Foundation is an independent charitable trust, governed by a Board of Trustees, for the support of education in rotorcraft and vertical-takeoff-and-landing (VTOL) aircraft engineering. The Foundation’s operations are made possible solely by tax deductible donations. Each year, the VFF awards scholarships to students who demonstrate an interest in pursuing engineering careers in the vertical flight industry. The Foundation has awarded nearly 400 scholarships to students from throughout the world in the four decades since it was established.

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To be eligible for a scholarship, you must

- Be a full-time student at an accredited school of engineering and be in school through the full academic year.
- Complete the entire Application for Scholarship (Sections I, II & III)
- Submit the Application for Scholarship to the Vertical Flight Foundation, including resume, via email (below) or by mail to 217 North Washington St., Alexandria, VA 22314-2538, USA by February 1 for the next academic year (September - June). Postmarks will govern timeliness.
- Submit an official grade transcript (including the most recent set of grades issued), a resume and an academic endorsement from a professor or dean at your school. Items need not be submitted with the application but must be received by FEBRUARY 1 of the award year.

Other information

- The applicant need not be a member of the AHS
- Applications will be reviewed by the Scholarship Committee. The Foundation will award several scholarships annually, unless there are no qualified applicants.
- Information related to the applicant’s citizenship, sex or age is used for statistical analyses only.
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- You may download a copy of the VFF application from our web site at www.vtol.org.

For additional information, contact the Vertical Flight Foundation
217 N. Washington St.
Alexandria, VA 22314, USA
Phone (703) 684-6777
hcafferelli@vtol.org

NOTE: A FILLABLE PDF IS PROVIDED ONLINE
APPLICATION FOR SCHOLARSHIP
SECTION I

Name: _____________________________________________________________________
Sex:________________

Present Street Address:________________________________________________________
City, State, Postal Code, Country: ________________________________________________

Permanent Street Address: _____________________________________________________
City, State, Postal Code, Country: ________________________________________________

Current Phone No.:_______________________  Permanent Phone No.: ____________________

Email: _________________________________________________________________________

Date of Birth: _______________ Place of Birth:_______________________________________
Citizenship: _____________________________________________________________________

Please list all professional societies/associations to which you belong:
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________

I hereby certify that the information contained in this Application for Scholarship is true and correct
and that I have made arrangements on (date) ______________________________ for submission of
my official grade transcript and an academic endorsement by a dean or professor affiliated with my
school.

Name of professor___________________________ Professor’s Email_______________________

Signature: _________________________________________________ Date: _________________
Section II - Education

Please list all colleges/universities attended, starting with the most recent first (i.e., the school you currently attend should appear on line 1)

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- What level of study will you be pursuing in the fall of next year
  □ B.S    □ M.S.    □ Ph.D.
- What is your school’s grading system?  A= ______
- If the cumulative GPA you list for the school you currently attend covers one year or less of academic work, you must submit two transcripts, one for the school you currently attend and one for the school you previously attended.
- What is your current GPA (present semester/quarter)? From _____________ to _____________ GPA ______________
- Will you be a full time student for the entire forthcoming year?  □ yes    □ no
- If the scholarship is to be used at a school other than the one you currently attend (line 1 above), or if the scholarship is to be used for an advanced degree program at the same school, please complete the table below.

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Section IV - Resume

Please attach a resume to your application using the template below. Fill out the resume template accurately and concisely. For undergraduates, any pertinent experience or history from Secondary School (high school) may be included, such as Civil Air Patrol, work in aerospace industry, etc.

Name
Address/Contact Information
For undergraduate applications include High School/Secondary School and honors/awards/activities, etc. that are germane.

Career Objective

Education

Experience/Employment history
  Rotorcraft
  Other Aerospace
  Other

Papers/Publications/Presentations (can list any theses)
  Rotorcraft
  Other Aerospace
  Other

Membership/Activities (if held an office or worked on a special project briefly describe what you did.
  Rotorcraft
  Other Aerospace
  Other (include community service)

Grants/Fellowships/Scholarships

Skills (such as languages, computing, etc.)

Anything else you would like the VFF Committee to consider

NOTES:
  • Template should be followed accurately
  • Should be in PDF or Word format
  • Research can be covered under Experience/Employment History if it has not resulted in papers, publications, and/or presentations.

I am attaching my resume with the application.     Yes    No
Vertical Flight Foundation Scholarship Recipients

2012

Amanda Bjorkland, Embry-Riddle Aeronautical University, Charles H. Kaman scholarship
James Black, University of Maryland – Evan A. Fradenburgh scholarship
Ben Rothacker, University of Michigan, Dr. Richard M. Carlson scholarship
Sumant Sharma, Georgia Institute of Technology, Barry J. Baskett scholarship
Xing Wang, University of Michigan, Joseph P. Cribbins scholarship
Natasha Barbely, Georgia Institute of Technology, Hal Andrews scholarship
Tejaswi Jarugumilli, University of Maryland, Charles H. Kaman Scholarship
Anand Karpatne, University of Texas at Austin, Evan A. Fradenburgh scholarship
Joseph Schmaus, University of Maryland, John McLaughlin scholarship
Jared Soltis, Pennsylvania State University, Don Toler scholarship
William Staruk, University of Maryland, Dr. Richard M. Carlson scholarship
James Coder, Pennsylvania State University, Dr. Feri Farassat scholarship
Kedar Naik, Stanford University, Alfred L. Wolf scholarship
Gurbuz Ozdemir, Pennsylvania State University, Hans and Gil Weichsel scholarship
Daniel Prosser, Georgia Institute of Technology, Joseph P. Cribbins scholarship
Juergen Rauleder, University of Maryland, Dr. Richard M. Carlson scholarship
Nicolas Reveles, Georgia Institute of Technology, Barry J. Baskett scholarship
Robert Scott, Georgia Institute of Technology, John McLaughlin scholarship
Robert Vocke III, University of Maryland, Evan A. Fradenburgh scholarship

Elizabeth Alice Weiner, University of Maryland, Joseph P. Cribbins scholarship
Jonathan Z. Yong, University of Illinois at Urbana-Champaign, Barry J. Baskett scholarship
Andrew Becnel, University of Maryland, Henry Borst scholarship
Benjamin Otto Berry, University of Maryland, Barry J. Baskett scholarship
Chen Friedman, University of Maryland, Bell Helicopter Textron scholarship
Elliot Quon, Georgia Institute of Technology, Jean Boulet scholarship
Ryan Michael Robinson, University of Maryland, Litton Precision Gear scholarship
Jason Carl Slaby, The Pennsylvania State University, William W. Walls scholarship
Anish Sydney, University of Maryland, Don Toler scholarship

2011

Juan Pablo Afman, Georgia Institute of Technology, Dr. Richard M. Carlson scholarship
Daniel Landers, Northeastern University, Dr. John Zuk scholarship
Elena Shrestha, University of Maryland, Dr. Richard M. Carlson scholarship
Sean Pearson Symon, University of Maryland, Dr. Richard M. Carlson scholarship
Nathan Wukie, University of Cincinnati, Joseph P. Cribbins scholarship
Graham Bowen-Davies, University of Maryland, Hans and Gil Weichsel scholarship
Erica Grace Hocking, University of Maryland, Hal Andrews scholarship
Austin Overmeyer, The Pennsylvania State University, Charles Kaman scholarship
Rajiv Shenoy, Georgia Institute of Technology, Dr. Henry R. Velkoff scholarship

2010

Natasha Barbely, Georgia Tech, Dr. Richard M. Carlson scholarship
Shane Boyer, Univ. of Maryland, John Zuk scholarship
Vrishank Raghav Shankare Gowda, Georgia Tech, Henry Borst scholarship
Tejaswi Jarugumilli, Univ. of Maryland, Bell Helicopter Textron scholarship
Jessica Jones, Univ. of Maryland, Dr. Richard M. Carlson scholarship
Silvio Mario Lopez, Georgia Tech, Joseph P. Cribbins scholarship
David Benjamin Mayo, Univ. of Maryland, Barry J. Baskett scholarship
John G. Mooney, Georgia Tech, Hans and Gil Weichsel scholarship
Elliot Quon, Georgia Tech, Hal Andrews scholarship
Nicolas Reveles, Georgia Tech, Litton Precision Gear scholarship
Harinder Jit Singh, Univ. of Maryland, Dr. Henry R. Velkoff scholarship
John G. Tritschler, Univ. of Maryland, John McLaughlin scholarship
Robert D. Vocke II, Univ. of Maryland, Joseph P. Cribbins scholarship
Nicholas L. Wilson, Univ. of Maryland, Bell Helicopter Textron scholarship
Anna Tatum Winslow, North Carolina State Univ/PSU, Barry Baskett scholarship

2009

Louise Aminata Ahure, University of Maryland
Kelly Cheng, Cal Poly, San Luis Obispo
Bethany Davis, Georgia Institute of Technology
William Kong, The Pennsylvania State University
Seongkyu Lee, The Pennsylvania State University
Mihir Mistry, The Pennsylvania State University
Jessica Newman, Georgia Institute of Technology
Kevin Lee Rankin, Embry Riddle Aeronautical University
Axel Schauenburg, Royal Melbourne Institute of Technology
Stanton Sollenberger, The Pennsylvania State University
Monica Syal, University of Maryland
*Chandrashekhar Tiwari, The Pennsylvania State University
*Benjamin King Sutton Woods, University of Maryland

2008
Abhishek Abhishek, University of Maryland
*Michael David Abraham, Georgia Institute of Technology
Loren Adrian Ahaus, Washington University at St. Louis
Brandon L. Bush, University of Maryland
Abhizna Butchibabu, Georgia Institute of Technology
Edward Brouwers, The Pennsylvania State University
Edward Bubert, University of Maryland
James P. Erwin, The Pennsylvania State University
Bryan Giax, University of Michigan
Christopher Ignatius, Georgia Institute of Technology
Timothy Lee, University of Maryland
Ryan James Meritt, Virginia Tech
Ryan Robinson, University of Maryland
Chandrashekhar Tiwari, The Pennsylvania State University

2007
Keith Allen, III, University of Maryland
Eric W. Beyer, Georgia Institute of Technology
Ryan P. Cash, Georgia Institute of Technology
James Cho, University of Michigan
Joseph Conroy, University of Maryland
Eric Greenwood, II, University of Maryland
Robert Haynes, Georgia Institute of Technology
Gregory J. Hiemenz, University of Maryland
Bradley Johnson, University of Maryland
Ryan Letniak, Georgia Institute of Technology
Leonard V. Lopez, Pennsylvania State University
Charles Lynch, Georgia Institute of Technology
Pamela Montanye, Pennsylvania State University
Robert Scott, Georgia Institute of Technology
Robert D. Vocke, III, University of Maryland
Benjamin Woods, University of Maryland

2006
Michael Abraham, Georgia Institute of Technology
Simon Vincent Atyeo, RMIT University
Caleb Michael Burz, University of Maryland
Richard John Cross, Georgia Institute of Technology
Kavanaugh B. Eldredge, Auburn University
*Jaye Falls, University of Maryland
Robert William Gregg, Clemson University
*Christopher C. Hennes, Pennsylvania State University
Jimmy C. Ho, Georgia Institute of Technology
Robert John Jurenko, Georgia Institute of Technology
Yuan Liu, Georgia Institute of Technology
Jongki Moon, Georgia Institute of Technology
Jose L. Palacios, Pennsylvania State University
Nicholas Rosengeld, University of Maryland

2005
Allan Anderson, Georgia Institute of Technology
Daniel Armanios, University of Pittsburgh
Kevin Calabro, University of Maryland
Eugene Cook, University of Maryland
Mark DeMann, University of California at Los Angeles
Jaye Falls, University of Maryland
Benjamin Hein, University of Maryland
Wei Hu, University of Maryland
Niclae Iorga, Rutgers University
Timothy Lewis, University of Texas at Arlington
Seamus McGovern, Northeastern University
Andrew Mendolia, Embry-Riddle University
*Joshua Reeves, Stanford University
Dustin Wood, University of Alabama at Huntsville

2004
Shreyas Ananthan, University of Maryland
Felipe Bohorquez, University of Maryland
Kevin Calabro, University of Maryland
Chen Chang, Georgia Institute of Technology
Ronald Couch, University of Maryland
Andrew Drysdale, University of Maryland
Joshua Ellison, University of Maryland
Brian Geiger, Pennsylvania State University
Christopher Hennes, Pennsylvania State University
Andrew Hopkins, Virginia Polytechnic And State University
Patricia Mchale, University of Rochester, New York
Garrett Paul, University of California At Santa Barbara
Joshua Reeves, Stanford University
Joseph Schmaus, University of Maryland
Ke Yu, Washington University At St. Louis

2003
Benjamin Berry, University of Maryland
*Derek Bridges, Penn State University
Anubhav Datta, University of Maryland
Jessica Dooley, University of Arizona
*Marc Gervais, University of Maryland
Jason Hines, Penn State University
Geoffrey Jeram, Georgia Institute of Technology
Jason Petrie, Penn State University
Stephen Repsher, Penn State University
*Nicholas C. Rosenfeld, University of Maryland
Alice Ryan, University of Maryland
Emilia Speal, Penn State University
**Matthew Tarascio, University of Maryland

2002
Ronald Couch, University of Maryland
Mark A. Davis, Embry Riddle University
Tracy A. DuVall, University of Maryland
Marc Gervais, University of Maryland
Gaurav Gopalan, University of Maryland
Andrew M. R. Hopkins, Virginia Polytechnic and State University
Dooyong Lee, Pennsylvania State University
Kalin C. Lee, Purdue University
Alexander J. May, Iowa State University
Seamus M. McGovern, Northeastern University
Maria Ribera, University of Maryland
*Beatrice Roget, University of Maryland
Suzanne E. Ruddy, University of Maryland
Joseph T. Szefi, Pennsylvania State University
Smith Thipvongs, Pennsylvania State University
Jinggen Zhao, Georgia Institute of Technology

2001
Jinsong Bao, University of Maryland
Adam E. Coker, Georgia Institute of Technology
Kelly Corfeld, Pennsylvania State University
Derek Geiger, Virginia Tech.
*Daniel A. Patt, University of Michigan
Jorge A. Morillo, Washington University at St. Louis
*Jason L. Pereira, University of Maryland
Beatrice Roget, University of Pennsylvania State University
*Martin K. Sekula, Pennsylvania State University
Matthew Tarascio, University of Maryland
Lionel Tauszig, Pennsylvania State University
Ilkay Yavrucuk, Georgia Institute of Technology

2000
Derek Bridges, Pennsylvania State University
*Mustapha Chehab, University of Maryland
Glen Dimock, University of Maryland
Preston B. Martin, University of Maryland
*Brian Munsky, Pennsylvania State University
Adria Nelson, Washington University
Daniel A. Patt, University of Michigan
Jason Pereira, University of Pennsylvania State University
Harsha Prahlad, University of Maryland
Ashish Purekar, University of Maryland
*Paul Samuel, University of Maryland
Anupam Sharma, Pennsylvania State University
Jayant Sirohi, University of Maryland
Jianhua Zhang, Pennsylvania State University

1999
*Hong Xin, Georgia Institute of Technology
Mahendra J. Bhagwat, University of Maryland
Hans A. DeSmet, Pennsylvania State University
Paul Samuel, University of Maryland
Matthew J. Tarascio, University of Maryland
*Rebecca A. Snyder, University of Maryland
Craig Fuehne, Washington University at St. Louis
Mustapha Chehab, University of Maryland
Megan P. Rooney, University of Maryland
Brian Munsky, Pennsylvania State University

1998
Clifford P. Smith, University of Maryland
Najneesh Singh, University of Maryland
Hong Xing, Georgia Institute of Technology
Nikhil Koratkar, University of Maryland
Jason Kiddy, University of Maryland
Taeoh Lee, University of Maryland
Jason Lindler, University of Maryland
Dave Heverty, II, Pennsylvania State University
Xin Wang, Washington University
Tom Ivanco, Pennsylvania State University
Rebecca Snyder, University of Maryland

1997
Andreas P. F. Bernhard, University of Maryland
Gopalakrishna Kamath, University of Maryland
Evangelos Koutsavdis, Purdue University
Christopher R. Knarr, Pennsylvania State University
Johnathan A. Keller, Pennsylvania State University
Martin K. Sekula, Pennsylvania State University
John R. Jameson III, Purdue University
Rolf T. Rysdyk, Georgia Institute of Technology
Eric L. Hathaway, Pennsylvania State University
Michael Peters, Washington University at St. Louis

1996
*Roy C. Edwards, Rensselaer Polytechnic Institute
*Michael R. Hassebrock, Iowa State University
Christopher L. Gunther, Virginia Polytechnic Institute
Louis R. Centolanza, Pennsylvania State University
Alan J. Coyne, University of Maryland
Nathan Scandella, Stanford University
*Christian R. Brackbill, Pennsylvania State University
D. Stefan Dancilla, Georgia Institute of Technology
*Matthew W. Floros, Pennsylvania State University
*Anna K.T. Howard, Pennsylvania State University
*Christopher T. Jones, University of Maryland
Erwin P. Moedersheim, University of Maryland
Patricia L. Stevens, Pennsylvania State University

1995
****Jerry P. Higman, Georgia Institute of Technology
Anna K.T. Howard, Pennsylvania State University
****Judah Milgram, University of Maryland
****Judah Milgram, University of Maryland
*Stanley A. Orr, Rensselaer Polytechnic Institute
Venkataraman Srinivas, University of Maryland
Christain R. Brackbill, Penn State University
*Matthew Floros, Penn State University
Leslie P. Fowler, Virginia Polytechnic Institute & State University
Nadine Leonard, Oklahoma State University
Roy C. Edwards, Rensselaer Polytechnic Institute
Michael R. Hassebrock, Iowa State University

1994
***Judah Milgram, University of Maryland
Farhan Gandhi, University of Maryland
Ashish Bagai, University of Maryland
**Jerry P. Higman, Georgia Institute of Technology
William P. Geyer, Penn State University
Anthony T. Glinka, Arizona State University
Matthew Floros, Penn State University
Kenley Ann Howard, University of Texas at Arlington
*Alexander J. Fleming, Georgia Institute of Technology
Jesus M. Miramontes, Texas Tech
James T. Czalnowski, University of Colorado
Shannon D. Rowan, Colorado Tech

1993
Jeffrey D. Hank, University of Illinois at Urbana-Champaign
*Jerry P. Higman, Georgia Institute of Technology
Kenneth P. Katz, University of Maryland
Saul Gonzalez-Mendoza, University of Puerto Rico
**Judah Milgram, University of Maryland
Stanley A. Orr, Rensselaer Polytechnic Institute
**Ashish K. Sareen, Georgia Institute of Technology**
Grant R. Thompson, University of Tulsa

1992
Robert T. Bupp, University of Maryland
Alexander J. Fleming, Georgia Institute of Technology
Jerry P. Higman, Georgia Institute of Technology
George E. Lee, UCLA
*Judah Milgram, University of Maryland
*Ashish K. Sareen, Georgia Institute of Technology
*Theodore Valkov, Massachusetts Institute of Technology
***Bruce E. Webster, Rensselaer Polytechnic Institute

1991
Charles Coffen, Cornell University
Warren Johnson, Georgia Institute of Technology
Judah Milgram, University of Maryland
*Thomas Millott, UCLA
*Ann Whelan Peck, Rensselaer Polytechnic Institute
Todd Ringler, Cornell University
James Risser, Princeton University
Theodore Valkov, Massachusetts Institute of Technology
**Bruce E. Webster, Rensselaer Polytechnic Institute

1990
Patrick Jensen, Princeton University
Greg Luecke, Penn State University
Thomas Millott, UCLA
Manoj Mittal, Georgia Institute of Technology
Matthew Overhold, University of Florida
Ann Whelan Peck, Rensselaer Polytechnic Institute
Neal Saiki, California Polytechnic, San Luis Obispo
**Edward C. Smith, University of Maryland
*Bruce E. Webster, Rensselaer Polytechnic Institute

1989
Joseph Bishop, Texas A & M University
Gilbert Crouse, Penn State University
Joshua H. Gordis, Rensselaer Polytechnic Institute
Thomas Millor, UCLA
*Edward C. Smith, University of Maryland
Richard Strauss, Davis Senior High School
Bruce E. Webster, Rensselaer Polytechnic Institute
Norman Wereley, Massachusetts Institute of Technology
Kuo-An Yoan, UCLA

1988
Christopher W. S. Bruner, University of Maryland
Ian Todd Gallimore, North Carolina State University
*Joshua H. Gordis, Rensselaer Polytechnic Institute
*Chenghijan He, Georgia Institute of Technology
Daniel Ira Newman, University of Maryland
Ashish K. Sareen, Georgia Institute of Technology
Pedro Schoch, Parks College of the University of St. Louis
Edward C. Smith, University of Maryland
Alan D. Stemple, University of Maryland

1987
Joshua H. Gordia, Rensselaer Polytechnic Institute
Chenghijan He, Georgia Institute of Technology
Philip R. King, Virginia Polytechnic Institute & State University
Scott Larwood, California Polytechnic, San Luis Obispo
Joon W. Lim, University of Maryland
Marc Takahashi, UCLA
Michael S. Torok, University of Maryland
**Mark E. Wasikowski, Georgia Institute of Technology

1986
*Robert A. Arents, Virginia Polytechnic Institute & State University
Neal D. Domel, University of Texas at Arlington
*Andrew S. Elliott, University of Maryland
Philip M. FitzSimons, Georgia Institute of Technology
Jeffrey W. Harding, Georgia Institute of Technology
Hung P. Ho, Jr., University of Southern California
Mark E. Kammeyer, University of Maryland
Marc Takahashi, UCLA
Mark E. Wasikowski, Georgia Institute of Technology

1985
Robert A. Arents, Virginia Polytechnic Institute & State University
David N. Domel, Texas A & M University
Andrew S. Elliott, University of Maryland
David J. Haas, University of Maryland
V R. Prasad Jonnalagadda, Georgia Institute of Technology
**Todd R. Quackenbush, Princeton University
*Lawson H. Robinson, UCLA
Mark E. Wasikowski, Purdue University
**Russell A. Zinner, Rensselaer Polytechnic Institute

1984
Joel F. Barber, University of Arizona
John H. Bearnio, Rensselaer Polytechnic Institute
Albert G. Brand, Georgia Institute of Technology
*Susan C. Garing, Princeton University
James E. Harris, Texas A & M University
Lawson H. Robinson, UCLA
Dana J. Taylor, Georgia Institute of Technology
*Russell A. Zinner, Rensselaer Polytechnic Institute

1983
Eva A. Czajkowski, Rensselaer Polytechnic Institute
Susan C. Garing, Princeton University
Richard S. Martin, Rensselaer Polytechnic Institute
Khanh Q. Nguyen, University of Maryland
*Todd R. Quackenbush, Princeton University
Ting-Nung B. Shiau, University of Illinois at Urbana-Champaign
Morgan Williams, Massachusetts Institute of Technology
Russell A. Zinner, Rensselaer Polytechnic Institute

1982
*Roberto Celi, UCLA
Pichard R. Fontana, Massachusetts Institute of Technology
Swamminathan Karunamoorthy, Washington University
Thomas Makowski, Penn State  
Louis A. Pare, II, Texas A & M University  
Edward Parleman, Georgia Institute of Technology  
*Mark W. Scott, Worcester Polytechnic Institute  
Mark C. Trout, Stanford University  

1981  
Louis J. Bogart, University of Michigan  
Frederick J. Ebert, Princeton University  
James E. Hubbard, Jr., Massachusetts Institute of Technology  
Timothy Ko, Washington University  
*Josh Levin, UCLA  
Mark W. Scott, Worcester Polytechnic Institute  
Gary R. Smith, University of Michigan  

1980  
Roberto Celi, UCLA  
Peter D. Klein, Penn State  
*Kenneth P. Leighton, Massachusetts Institute of Technology  
Josh Levii, UCLA  
Richard S. Martin, Massachusetts Institute of Technology  
Mark A. Norris, Virginia Polytechnic Institute & State University  
Todd R. Quackenbush, Massachusetts Institute of Technology  
Barbara K. Townsend, Purdue University  

1979  
Nicholas R. Godbey, Massachusetts Institute of Technology  
Mark L. Hammer, Georgia Institute of Technology  
Edward J. Hanker, Jr., Princeton University  
Kenneth P. Leighton, Massachusetts Institute of Technology  
Kelly M. Morger, Texas A & M University  
*Dale M. Pitt, Washington University  
Richard B. Ramirez, Southern Methodist University  
Russell A. Wright, Virginia Polytechnic Institute & State University  

1978  
William B. Bigler II, University of Virginia  
Douglas J. Crook, Penn State  
Robert M. McKillip, Jr., Princeton University  
Dale M. Pitt, Washington University  
*James A. Sansone, University of Texas at Austin  
Ajay Sehgal, Georgia Institute of Technology  
*William Warmbrodt, UCLA  
Cynthia A. Williams, Texas A & M University  

1977  
Larry J. McQuien, Texas A & M University  
James A. Sansone, University of Texas at Austin  
William Warmbrodt, UCLA  

The number of asterisks next to a name indicates multiple awards:  
* Two-time recipient  
** Three-time recipient  
*** Four-time recipient  
**** Five-time recipient
Vertical Flight Foundation Scholarship Recipients

2012
Amanda Bjorkland, Embry-Riddle Aeronautical University, Charles H. Kaman scholarship
James Black, University of Maryland – Evan A. Fradenburgh scholarship
Ben Rothacker, University of Michigan, Dr. Richard M. Carlson scholarship
Sumant Sharma, Georgia Institute of Technology, Barry J. Basket scholarship
Xing Wang, University of Michigan, Joseph P. Cribbins scholarship
Natasha Barbely, Georgia Institute of Technology, Hal Andrews scholarship
Tejaswi Jarugumilli, University of Maryland, Charles H. Kaman Scholarship
Anand Karpatne, University of Texas at Austin, Evan A. Fradenburgh scholarship
Joseph Schmaus, University of Maryland, John McLaughlin scholarship
Jared Soltis, Pennsylvania State University, Don Toler scholarship
William Staruk, University of Maryland, Dr. Richard M. Carlson scholarship
James Coder, Pennsylvania State University, Dr. Feri Farassat scholarship
Kedar Naik, Stanford University, Alfred L. Wolf scholarship
Gurbuz Ozdemir, Pennsylvania State University, Hans and Gil Weichsel scholarship
Daniel Prosser, Georgia Institute of Technology, Joseph P. Cribbins scholarship
Juergen Rauleder, University of Maryland, Dr. Richard M. Carlson scholarship
Nicolas Reveles, Georgia Institute of Technology, Barry J. Basket scholarship
Robert Scott, Georgia Institute of Technology, John McLaughlin scholarship
Robert Vocke III, University of Maryland, Evan A. Fradenburgh scholarship

2011
Juan Pablo Afman, Georgia Institute of Technology, Dr. Richard M. Carlson scholarship
Daniel Landers, Northeastern University, Dr. John Zuk scholarship
Elena Shrestha, University of Maryland, Dr. Richard M. Carlson scholarship
Sean Pearson Symon, University of Maryland, Dr. Richard M. Carlson scholarship
Nathan Wukie, University of Cincinnati, Joseph P. Cribbins scholarship
Graham Bowen-Davies, University of Maryland, Hans and Gil Weichsel scholarship
Erica Grace Hocking, University of Maryland, Hal Andrews scholarship
Austin Overmeyer, The Pennsylvania State University, Charles Kaman scholarship
Rajiv Shenoy, Georgia Institute of Technology, Dr. Henry R. Velkoff scholarship
Elizabeth Alice Weiner, University of Maryland, Joseph P. Cribbins scholarship
Jonathan Z. Yong, University of Illinois at Urbana-Champaign, Barry J. Basket scholarship
Andrew Becnel, University of Maryland, Henry Borst scholarship
Benjamin Otto Berry, University of Maryland, Barry J. Basket scholarship
Chen Friedman, University of Maryland, Bell Helicopter Textron scholarship
Eliot Quon, Georgia Institute of Technology, Jean Boulet scholarship
Ryan Michael Robinson, University of Maryland, Litton Precision Gear scholarship
Jason Carl Slaby, The Pennsylvania State University, William W. Walls scholarship
Anish Sydney, University of Maryland, Don Toler scholarship

2010
Natasha Barbely, Georgia Tech, Dr. Richard M. Carlson scholarship
Shane Boyer, Univ. of Maryland, John Zuk scholarship
Vrishank Raghav Shankare Gowda, Georgia Tech, Henry Borst scholarship
Tejaswi Jarugumilli, Univ. of Maryland, Bell Helicopter Textron scholarship
Jessica Jones, Univ. of Maryland, Dr. Richard M. Carlson scholarship
Silvio Mario Lopez, Georgia Tech, Joseph P. Cribbins scholarship
David Benjamin Mayo, Univ. of Maryland, Barry J. Basket scholarship
John G. Mooney, Georgia Tech, Hans and Gil Weichsel scholarship
Eliot Quon, Georgia Tech, Hal Andrews scholarship
Nicolas Reveles, Georgia Tech, Litton Precision Gear scholarship
Harinder Jit Singh, Univ. of Maryland, Dr. Henry R. Velkoff scholarship
John G. Tritschler, Univ. of Maryland, John McLaughlin scholarship
Robert D. Vocke II, Univ. of Maryland, Joseph P. Cribbins scholarship
Nicholas L. Wilson, Univ. of Maryland, Bell Helicopter Textron scholarship
Anna Tatum Winslow, North Carolina State Univ/PSU, Barry Basket scholarship

2009
Louise Aminata Ahure, University of Maryland
Kelly Cheng, Cal Poly, San Luis Obispo
Bethany Davis, Georgia Institute of Technology
William Kong, The Pennsylvania State University
Seongkyu Lee, The Pennsylvania State University
Mihir Mistry, The Pennsylvania State University
Maria Ribera, University of Maryland
*Beatrice Roget, University of Maryland
Suzanne E. Rudy, University of Maryland
Joseph T. Szefi, Pennsylvania State University
Smith Thepvongs, Pennsylvania State University
Jinggen Zhao, Georgia Institute of Technology

2001
Jinsong Bao, University of Maryland
Adam E. Coker, Georgia Institute of Technology
Kelly Corfeld, Pennsylvania State University
Derek Geiger, Virginia Tech.
*Daniel A. Patt, University of Michigan
Jorge A. Morillo, Washington University at St. Louis
*Jason L. Pereira, University of Maryland
Beatrice Roget, University of Maryland
Nicholas C. Rosenfeld, University of Maryland
Robert A. Sarjeant, Pennsylvania State University
*Martin K. Sekula, Pennsylvania State University
Matthew Tarascio, University of Maryland
Lionel Tauszig, Pennsylvania State University
Ilkay Yavrucuk, Georgia Institute of Technology

2000
Derek Bridges, Pennsylvania State University
*Mustapha Chehab, University of Maryland
Glen Dimock, University of Maryland
Preston B. Martin, University of Maryland
*Brian Munsky, Pennsylvania State University
Adria Nelson, Washington University
Daniel A. Patt, University of Michigan
Jason Pereira, University of Maryland
Harsha Prahlad, University of Maryland
Ashish Purekar, University of Maryland
*Paul Samuel, University of Maryland
Anupam Sharma, Pennsylvania State University
Jayant Sirohi, University of Maryland
Jianhua Zhang, Pennsylvania State University

1999
*Hong Xin, Georgia Institute of Technology
Mahendra J. Bhagwat, University of Maryland
Hans A. DeSmet, Pennsylvania State University
Paul Samuel, University of Maryland
Matthew J. Tarascio, University of Maryland
*Rebecca A. Snyder, University of Maryland
Craig Fuehne, Washington University at St. Louis
Mustapha Chehab, University of Maryland
Megan P. Rooney, University of Maryland
Brian Munskey, Pennsylvania State University

1998
Clifford P. Smith, University of Maryland
Najneesh Singh, University of Maryland
Hong Xing, Georgia Institute of Technology
Nikhil Koratkar, University of Maryland
Jason Kiddy, University of Maryland
Taeoh Lee, University of Maryland
Jason Lindler, University of Maryland
Dave Heverly, II, Pennsylvania State University
Xin Wang, Washington University
Tom Ivanco, Pennsylvania State University

1997
Andreas P. F. Bernhard, University of Maryland
Gopalakrishna Kamath, University of Maryland
Evangelos Koutsavlis, Purdue University
Christopher R. Knarr, Pennsylvania State University
Johnathan A. Keller, Pennsylvania State University
Martin K. Sekula, Pennsylvania State University
John R. Jameson III, Purdue University
Rolf T. Rysdyk, Georgia Institute of Technology
Eric L. Hathaway, Pennsylvania State University
Michael Peters, Washington University at St. Louis

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Louis R. Centolanza, Pennsylvania State University
Alan J. Coyne, University of Maryland
Nathan Scandella, Stanford University
*Christian R. Brackbill, Pennsylvania State University
D. Stefan Dancila, Georgia Institute of Technology
**Matthew W. Floros, Pennsylvania State University
*Anna K.T. Howard, Pennsylvania State University
*Christopher T. Jones, University of Maryland
Erwin P. Moedersheim, University of Maryland
Patricia L. Stevens, Pennsylvania State University

1995
****Jerry P. Higman, Georgia Institute of Technology
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Christopher T. Jones, University of Maryland
****Judah Milgram, University of Maryland
*Stanley A. Orr, Rensselaer Polytechnic Institute
Venkatarmaman Srinivas, University of Maryland
Christain R. Brackbill, Penn State University
*Matthew Floros, Penn State University
Leslie P. Fowler, Virginia Polytechnic Institute & State University
Nadine Leonard, Oklahoma State University
Roy C. Edwards, Rensselaer Polytechnic Institute
Michael R. Hassebrock, Iowa State University

1994
***Judah Milgram, University of Maryland
Farhan Gandhi, University of Maryland
Ashish Bagai, University of Maryland
**Jerry P. Higman, Georgia Institute of Technology
William P. Geyer, Penn State University
Anthony T. Glinka, Arizona State University
Matthew Floros, Penn State University
Kenley Ann Howard, University of Texas at Arlington
*Alexander J. Fleming, Georgia Institute of Technology
Jesus M. Miraamontes, Texas Tech
James T. Czalnowski, University of Colorado
Shannon D. Rowan, Colorado Tech

1993
Jeffrey D. Hank, University of Illinois at Urbana-Champaign
*Jerry P. Higman, Georgia Institute of Technology
<table>
<thead>
<tr>
<th>Year</th>
<th>Mentors and Affiliations</th>
</tr>
</thead>
</table>
| 1992 | Kenneth P. Katz, University of Maryland  
Saul Gonzalez-Mendoza, University of Puerto Rico  
Judah Milgram, University of Maryland  
Stanley A. Orr, Rensselaer Polytechnic Institute  
Ashish K. Sareen, Georgia Institute of Technology  
Grant R. Thompson, University of Tulsa |
| 1991 | Robert T. Bupp, University of Maryland  
Alexander J. Fleming, Georgia Institute of Technology  
Jerry P. Higman, Georgia Institute of Technology  
George E. Lee, UCLA  
Judah Milgram, University of Maryland  
Ashish K. Sareen, Georgia Institute of Technology  
Theodore Valkov, Massachusetts Institute of Technology  
Bruce E. Webster, Rensselaer Polytechnic Institute |
| 1990 | Charles Coffen, Cornell University  
Warren Johnson, Georgia Institute of Technology  
Judah Milgram, University of Maryland  
Thomas Millott, UCLA  
Ann Whelan Peck, Rensselaer Polytechnic Institute  
Todd Ringler, Cornell University  
James Risser, Princeton University  
Theodore Valkov, Massachusetts Institute of Technology  
Bruce E. Webster, Rensselaer Polytechnic Institute |
| 1989 | Patrick Jensen, Princeton University  
Greg Luecke, Penn State University  
Thomas Millott, UCLA  
Manoj Mittal, Georgia Institute of Technology  
Matthew Overhold, University of Florida  
Ann Whelan Peck, Rensselaer Polytechnic Institute  
Neal Saiki, California Polytechnic, San Luis Obispo  
Edward C. Smith, University of Maryland  
Bruce E. Webster, Rensselaer Polytechnic Institute |
| 1988 | Christopher W. S. Bruner, University of Maryland  
Ian Todd Gallimore, North Carolina State University  
Joshua H. Gordis, Rensselaer Polytechnic Institute  
Chenghian He, Georgia Institute of Technology  
Daniel Ira Newman, University of Maryland  
Ashish K. Sareen, Georgia Institute of Technology  
Pedro Schoch, Parks College of the University of St. Louis |
| 1987 | Edward C. Smith, University of Maryland  
Alan D. Stemple, University of Maryland |
| 1986 | Robert A. Arents, Virginia Polytechnic Institute & State University  
Neal D. Domel, University of Texas at Arlington  
Andrew S. Elliott, University of Maryland  
Philip M. FitzSimons, Georgia Institute of Technology  
Jeffrey W. Harding, Georgia Institute of Technology  
Hung P. Ho, Jr., University of Southern California  
Mark E. Kammeyer, University of Maryland  
Marc Takahashi, UCLA  
Mark E. Wasikowski, Georgia Institute of Technology |
| 1985 | Robert A. Arents, Virginia Polytechnic Institute & State University  
David N. Domel, Texas A & M University  
Andrew S. Elliott, University of Maryland  
David J. Haas, University of Maryland  
V R. Prasad Jonnalagadda, Georgia Institute of Technology  
Todd R. Quackenbush, Princeton University  
Lawson H. Robinson, UCLA  
Mark E. Wasikowski, Purdue University  
Russell A. Zinner, Rensselaer Polytechnic Institute |
| 1984 | Joel F. Barber, University of Arizona  
John H. Beanrio, Rensselaer Polytechnic Institute  
Albert G. Brand, Georgia Institute of Technology  
Susan C. Garing, Princeton University  
James E. Harris, Texas A & M University  
Lawson H. Robinson, UCLA  
Dana J. Taylor, Georgia Institute of Technology  
Russell A. Zinner, Rensselaer Polytechnic Institute |
| 1983 | Eva A. Czajkowski, Rensselaer Polytechnic Institute  
Susan C. Garing, Princeton University  
Richard S. Martin, Rensselaer Polytechnic Institute  
Khanh Q. Nguyen, University of Maryland  
Todd R. Quackenbush, Princeton University  
Ting-Nung B. Shiau, University of Illinois at Urbana-Champaign  
Morgan Williams, Massachusetts Institute of Technology  
Russell A. Zinner, Rensselaer Polytechnic Institute |
| 1982 | Robert T. Bupp, University of Maryland  
Alexander J. Fleming, Georgia Institute of Technology  
Jerry P. Higman, Georgia Institute of Technology  
George E. Lee, UCLA  
Judah Milgram, University of Maryland  
Ashish K. Sareen, Georgia Institute of Technology  
Theodore Valkov, Massachusetts Institute of Technology  
Bruce E. Webster, Rensselaer Polytechnic Institute |
The number of asterisks next to a name indicates multiple awards:
* Two-time recipient
** Three-time recipient
*** Four-time recipient
**** Five-time recipient

1981
Louis J. Bogart, University of Michigan
Frederick J. Ebert, Princeton University
James E. Hubbard, Jr., Massachusetts Institute of Technology
Timothy Ko, Washington University
*Josh Levin, UCLA
Mark W. Scott, Worcester Polytechnic Institute
Gary R. Smith, University of Michigan

1980
Roberto Celi, UCLA
Peter D. Klein, Penn State
*Kenneth P. Leighton, Massachusetts Institute of Technology
Josh Levin, UCLA
Richard S. Martin, Massachusetts Institute of Technology
Mark A. Norris, Virginia Polytechnic Institute & State University

1979
Nicholas R. Godbey, Massachusetts Institute of Technology
Mark L. Hammer, Georgia Institute of Technology
Edward J. Hanker, Jr., Princeton University
Kenneth P. Leighton, Massachusetts Institute of Technology
Kelly M. Morger, Texas A & M University
*Dale M. Pitt, Washington University
Richard B. Ramirez, Southern Methodist University
Russell A. Wright, Virginia Polytechnic Institute & State University

1978
William B. Bigler II, University of Virginia
Douglas J. Crook, Penn State
Robert M. McKillip, Jr., Princeton University
Dale M. Pitt, Washington University
*James A. Sansone, University of Texas at Austin
Ajay Sehgal, Georgia Institute of Technology
*William Warmbrodt, UCLA
Cynthia A. Williams, Texas A & M University

1977
Larry J. McQuien, Texas A & M University
James A. Sansone, University of Texas at Austin
William Warmbrodt, UCLA
### Past Board of Directors

#### 2011-2012

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Philip J. Dunford</td>
<td>ME Vice President</td>
<td>Mathew. B. Mathew</td>
</tr>
<tr>
<td>President</td>
<td>Stephen Mundt</td>
<td>SE Vice President</td>
<td>Susan Gorton</td>
</tr>
<tr>
<td>Secretary/Treasurer</td>
<td>John Garrison</td>
<td>SW Vice President</td>
<td>Catherine H. Ferrie</td>
</tr>
<tr>
<td>NE Vice President</td>
<td>William Welsh</td>
<td>W Vice President</td>
<td>Larry F. Plaster</td>
</tr>
<tr>
<td>ME Vice President</td>
<td>Marc W. Sheffler</td>
<td>S Vice President</td>
<td>Jack Van Kirk</td>
</tr>
<tr>
<td>SE Vice President</td>
<td>Sandra Hoff</td>
<td>Washington, D. C. Vice President</td>
<td>Lawrence P. Peduzzi</td>
</tr>
<tr>
<td>SW Vice President</td>
<td>Swaminathan Karunamoorthy</td>
<td>International Vice Presidents</td>
<td>Atsuo Iguchi</td>
</tr>
<tr>
<td>W Vice President</td>
<td>Barry Lakin Smith</td>
<td>Directors</td>
<td>Thomas E. Laux</td>
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<tr>
<td>S Vice President</td>
<td>Jack Van Kirk</td>
<td></td>
<td>Martin Peryea</td>
</tr>
<tr>
<td>Washington, D. C. Vice President</td>
<td>Lawrence P. Peduzzi</td>
<td></td>
<td>David A. Peters</td>
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<tr>
<td>International Vice Presidents</td>
<td>Somen Chowdhury</td>
<td></td>
<td>Scott Retig</td>
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<tr>
<td>Directors</td>
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<tr>
<td>Technical Director</td>
<td>Susan Gorton</td>
<td></td>
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<tr>
<td>Intl. Membership Chair</td>
<td>Jon S. Tatro</td>
<td></td>
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<tr>
<td>VP-Infrastructure</td>
<td>John Leverton</td>
<td></td>
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<tr>
<td>VSTOL Chair</td>
<td>Bob Wood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Journal Editor</td>
<td>P.V.R Prasad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forum Technical Director</td>
<td>Judah Milgram</td>
<td></td>
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</tbody>
</table>

#### 2010-2011

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Philip J. Dunford</td>
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<td>S Vice President</td>
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<td>Marc W. Sheffler</td>
<td>Washington, D. C. Vice President</td>
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<tr>
<td>SE Vice President</td>
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<td>Somen Chowdhury</td>
</tr>
<tr>
<td>MW Vice President</td>
<td>Swaminathan Karunamoorthy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W Vice President</td>
<td>Barry Lakin Smith</td>
<td>Directors</td>
<td>Robert T. Fiest</td>
</tr>
<tr>
<td>S Vice President</td>
<td>Jack Van Kirk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington, D. C. Vice President</td>
<td>Lawrence P. Peduzzi</td>
<td></td>
<td>Thomas E. Laux</td>
</tr>
<tr>
<td>International Vice Presidents</td>
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<td>Stephen C. Moss</td>
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<td>John Leverton</td>
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<td>P.V.R Prasad</td>
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<tr>
<td>Forum Technical Director</td>
<td>Judah Milgram</td>
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#### 2008-2009

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<td>Chair</td>
<td>Jeffrey Pino</td>
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<tr>
<td>President</td>
<td>Stephen D. Ramsey</td>
<td>Secretary/Treasurer</td>
<td>Philip J. Dunford</td>
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#### 2007-2008

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<tr>
<td>Chair</td>
<td>Richard Millman</td>
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#### 2009-2010

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<td>Year</td>
<td>Chair</td>
<td>President</td>
<td>Secretary/Treasurer</td>
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**Directors**

- Robert T. Fiest
- Swaminathan Karunamoorthy
- Thomas E. Laux
- Michael McVeigh
- Stephen C. Moss
- Ashish K. Sareen
- Michael S. Torok

**Technical Director**

- John M. Davis
- Jon S. Tatro
- David J. Weller
- Michael Hirschberg

**VFF Chair**

- John M. Davis
- John M. Davis
- Kenneth Brentner
- Michael Hirschberg

**Journal Editor**

- Kenneth Brentner
- William Warmbrodt
- J. Gordon Leishman

**International Vice Presidents**

- Somen Chowdhury
- Masato Furusawa
- Marc Paganini
- Robert Fiest
- Swami Karunamoorthy
- Ashish K. Sareen
- Michael S. Torok

**2004-2005**

- Chair: Paul W. Martin
- President: William R. Charlton
- Secretary/Treasurer: Gerald W. Irvine
- NE Vice President: Michael A. McVeigh
- ME Vice President: Thomas E. Laux
- SE Vice President: Robert Fiest
- MW Vice President: Swami Karunamoorthy
- SW Vice President: Ashish K. Sareen
- W Vice President: William Warmbrodt
- S Vice President: Steve Bolton
- Washington, D.C. Vice President: Lawrence P. Peduzzi
- International Vice Presidents: Somen Chowdhury, Marc Paganini

**2003-2004**

- Chair: Robert G. Loewy
- President: Paul W. Martin
- Secretary/Treasurer: William H. Forster
- NE Vice President: Michael S. Torok
- ME Vice President: Evan Sampatocas
- SE Vice President: Gerald W. Irvine
- MW Vice President: Swami Karunamoorthy
- SW Vice President: Michael S. Torok
- W Vice President: William Warmbrodt
- S Vice President: Steve Bolton
- Directors: Akira Sato, John Cline, Philip Dunford
- Washington, D.C. Vice President: Lawrence P. Peduzzi
- International Vice Presidents: Somen Chowdhury, Normichi Kawakami, Stuart I. Mullan

**2005-2006**

- Chair: William H. Forster
- President: Philip Dunford
- Secretary/Treasurer: Michael A. Redenbaugh
- NE Vice President: David Matuska
- ME Vice President: Michael A. McVeigh
- SE Vice President: Robert Fiest
- MW Vice President: Swami Karunamoorthy
- SW Vice President: William Warmbrodt
- W Vice President: Paul Bogosian
- S Vice President: Paul Bogosian
- Directors: John Cline, Philip Dunford
- Washington, D.C. Vice President: Lawrence P. Peduzzi
- International Vice Presidents: Somen Chowdhury, Normichi Kawakami, Stuart I. Mullan

**Directors**

- John M. Davis
- Jon S. Tatro
- Michael A. Redenbaugh
- David J. Weller
- Michael Hirschberg
- Kenneth Brentner
- William Warmbrodt

**Technical Director**

- John M. Davis
- Jon S. Tatro
- David J. Weller
- Michael Hirschberg

**VFF Chair**

- John M. Davis
- Jon S. Tatro
- Kenneth Brentner
- Michael Hirschberg

**Journal Editor**

- Kenneth Brentner
- William Warmbrodt
- J. Gordon Leishman

**International Vice Presidents**

- Somen Chowdhury
- Masato Furusawa
- Marc Paganini
- Robert Fiest
- Swami Karunamoorthy
- Ashish K. Sareen
- Michael S. Torok
Journal Editor   Gopal Goankar
Forum Technical Director  Ross P. Menger
2002-2003
Chair    Gilles P. Ouimet
President   Robert G. Loewy
Secretary/Treasurer  Paul W. Martin
NE Vice President  Kenneth Lauck
ME Vice President  Evan Sampatoces
SE Vice President  Gerald W. Irvine
MW Vice President  Swami Karunmoorthy
SW Vice President  Malcolm Foster
W Vice President  Yung H. Yu
S Vice President  Clifford Karvinen
Washington, D. C. Vice President  Lawrence P. Peduzzi
International Vice Presidents  Somen Chowdhury, Jean-Pierre Dubreuil
Directors   William B. Blake, Albert L. Winn

1999-2000
Chair    Dean C. Borgman
President   Chuck Vehlow
Secretary/Treasurer  John Murphey
NE Vice President  James C. Nietupski
ME Vice President  David A. Peters
SE Vice President  Robert J. Huston
MW Vice President  Ajay Sehgal
SW Vice President  Ry Prouty
W Vice President  Daniel P. Schrage
S Vice President  Lawrence P. Peduzzi
Washington, D. C. Vice President  David A. Peters
International Vice Presidents  William G. Bousman, John M. Davis
Directors   Harry E. Pember, Albert L. Winn

2001-2002
Chair    John Murphey
President   Gilles P. Ouimet
Secretary/Treasurer  Robert G. Loewy
NE Vice President  Kenneth Lauck
ME Vice President  Philip Dunford
SE Vice President  Col. Waldo Carmona
MW Vice President  Swami Karunmoorthy
SW Vice President  Ajay Sehgal
W Vice President  Yung H. Yu
S Vice President  Clifford Karvinen
Washington, D. C. Vice President  Lawrence P. Peduzzi
International Vice Presidents  Somen Chowdhury, Jean-Pierre Dubreuil, Hidehiko Obayashi
Directors   William B. Blake, Albert L. Winn

1998-1999
Chair    Dean C. Borgman
President   Chuck Vehlow
Secretary/Treasurer  John Murphey
NE Vice President  James C. Nietupski
ME Vice President  David A. Peters
SE Vice President  Robert J. Huston
MW Vice President  Ajay Sehgal
SW Vice President  Robert V. Kennedy
W Vice President  Raymond W. Prouty
S Vice President  Daniel P. Schrage
Washington, D. C. Vice President  Lawrence P. Peduzzi
International Vice Presidents  William G. Bousman, Wayne Mantay
Directors   Harry E. Pember, Albert L. Winn

2000-2001
Chair    Roger A. Krone
President   John Murphey
Secretary/Treasurer  Gilles P. Ouimet
Washington, D. C. Vice President  Lawrence P. Peduzzi
1997-1998

Board Chair: George T. Singley, III
President: S. Michael Hudson
Secretary/Treasurer: Dean C. Borgman
NE Vice President: Ron Schlegel
ME Vice President: Marc W. Sheffler
SE Vice President: Gilbert W. Snow
MW Vice President: Galen D. Rosher
SW Vice President: John T. Brieger
W Vice President: Gene Munson
S Vice President: Robert V. Kennedy
Washington, D.C. Vice President: Lawrence P. Peduzzi
International Vice Presidents: Somen Chowdhury, Jean-Pierre Dubreuil

Directors

Wesley L. Harris
Robert E. Whitehead

1995-1996

Chair: Washington, D.C. Vice President
President: S. Michael Hudson
Secretary/Treasurer: Dean C. Borgman
NE Vice President: Ron Schlegel
ME Vice President: Marc W. Sheffler
SE Vice President: Gilbert W. Snow
MW Vice President: Galen D. Rosher
SW Vice President: John T. Brieger
W Vice President: Gene Munson
S Vice President: Robert V. Kennedy
International Vice Presidents: Somen Chowdhury, Jean-Pierre Dubreuil

Directors

Wesley L. Harris
Robert E. Whitehead

1994-1995

Chair: C. Thomas Snyder
President: Webb F. Joiner
Secretary/Treasurer: Gary F. Rast
NE Vice President: Thomas W. Sheehy
ME Vice President: Rodney S. Taylor
SE Vice President: Robert Wiesner
MW Vice President: Thomas W. Sheehy
SW Vice President: Robert Wiesner
W Vice President: Rodney S. Taylor
S Vice President: Robert Wiesner
International Vice Presidents: Motoi Yoshiwaka

Directors

C. Thomas Snyder
Webb F. Joiner
Gary F. Rast

1993-1994

Chair: Edward J. Renouard
President: C. Thomas Snyder
Secretary/Treasurer: Webb F. Joiner
NE Vice President: Thomas W. Sheehy
ME Vice President: Robert Wiesner
SE Vice President: Robert A. Ormiston
MW Vice President: Thomas W. Sheehy
SW Vice President: Robert A. Ormiston
W Vice President: Thomas W. Sheehy
S Vice President: Robert A. Ormiston
International Vice Presidents: Thomas W. Sheehy

Directors

Webb F. Joiner
C. Thomas Snyder
Wesley L. Harris
Robert E. Whitehead

1992-1993

Chair: Gary F. Rast
President: George T. Singley, III
Secretary/Treasurer: A. Leroy Pucker
NE Vice President: Thomas N. Flanary II
ME Vice President: James D. Woodley
SE Vice President: Robert E. Whitehead
MW Vice President: Thomas N. Flanary II
SW Vice President: Robert E. Whitehead
W Vice President: Thomas N. Flanary II
Washington, D.C. Vice President: Lawrence P. Peduzzi
International Vice Presidents: Somen Chowdhury, Jean-Pierre Dubreuil

Directors

Gary F. Rast
A. Leroy Pucker

1991-1992

Chair: George T. Singley, III
President: C. Thomas Snyder
Secretary/Treasurer: Gary F. Rast
NE Vice President: Thomas N. Flanary II
ME Vice President: David Woodley
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International Vice Presidents: Somen Chowdhury, Jean-Pierre Dubreuil

Directors

Gary F. Rast
A. Leroy Pucker

1990-1991

Chair: S. Michael Hudson
President: Edward P. Baron
Secretary/Treasurer: Gary P. Smith
NE Vice President: Ron Schlegel
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Dr. James J. Yenni

1989-1990

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Directors

Gary G. Rast
John F. Hendricks

1988-1989

Chair: Thomas W. Sheehy
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Secretary/Treasurer: Gary P. Smith
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SE Vice President: Robert E. Whitehead
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Directors

Gary P. Smith
Dr. James J. Yenni

1987-1988

Chair: S. Michael Hudson
President: George T. Singley, III
Secretary/Treasurer: Gary P. Smith
NE Vice President: Ron Schlegel
ME Vice President: David Woodley
SE Vice President: Robert E. Whitehead
MW Vice President: Thomas N. Flanary II
SW Vice President: Robert E. Whitehead
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Washington, D.C. Vice President: Lawrence P. Peduzzi
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Directors

Gary P. Smith
Dr. James J. Yenni

1986-1987

Chair: George T. Singley, III
President: C. Thomas Snyder
Secretary/Treasurer: Gary P. Smith
NE Vice President: Ron Schlegel
ME Vice President: David Woodley
SE Vice President: Robert E. Whitehead
MW Vice President: Thomas N. Flanary II
SW Vice President: Robert E. Whitehead
W Vice President: Thomas N. Flanary II
Washington, D.C. Vice President: Lawrence P. Peduzzi
International Vice Presidents: Somen Chowdhury, Jean-Pierre Dubreuil

Directors

Gary P. Smith
Dr. James J. Yenni

1985-1986

Chair: C. Thomas Snyder
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Secretary/Treasurer: Gary P. Smith
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SE Vice President: Thomas Flanary II
MW Vice President: David J. Weller
SW Vice President: Rodney S. Taylor
W. Vice President: William W. Walls
International Vice President: Luciano Forazani
Directors: A. Leroy Pucker, Ernest Riesenfeld, Gary P. Smith, David J. Weller, Warren H. Young, James Erickson, Charles W. Johnson, George T. Singley, III, Walter P. Nelms, Dr. John Shaw
Membership Chair: Kaydon Stanzione
VFF Chair: William W. Walls
Journal Editor: Robert Huston
Forum Technical Director: Emmett Knight

1990-1991
Chair: Stan Martin
President: Eugene Buckley
Secretary/Treasurer: Tom Gunn
ME Vice President: C. Rande Vause
SE Vice President: Ernest Reisenfeld
MW Vice President: John Macrino
SW Vice President: Timothy J. Hughes
W. Vice President: Walter Young
International Vice President: Luciano Forazani
Directors: Peter J. Cross, Jerry M. Bazzetta, Peter Cross, Jerry M. Bazzetta, Peter Cross, Jerry M. Bazzetta
Technical Director: Dr. John Shaw
Membership Chair: Kaydon Stanzione
VFF Chair: William W. Walls
Journal Editor: Robert Huston
Forum Technical Director: Emmett Knight

1989-1990
Chair: W. W. Walls
President: S. Martin
Secretary/Treasurer: E. Buckley
ME Vice President: C. R. Vause
SE Vice President: D. S. Hart
MW Vice President: E. F. Knight
SW Vice President: J. M. Bazzetta
W. Vice President: J. G. Yen
International Vice President: Alain Cassier
Membership Chair: Kaydon Stanzione
VFF Chair: William W. Walls
Journal Editor: Robert Huston
Forum Technical Director: Jerry G. Yen

1988-1989
Chair: W. J. Crawford III
President: W. W. Walls
Secretary/Treasurer: S. Martin
ME Vice President: D. E. Cooper
SE Vice President: E. F. Knight
MW Vice President: J. M. Bazzetta
W. Vice President: J. W. White
International Vice President: W. P. Nelsms
Directors: A. W. Myers, D. E. Cooper, A. W. Myers, D. E. Cooper, A. W. Myers, D. E. Cooper
Technical Director: T. L. House
Membership Chair: J. T. Brieger
Journal Editor: D. A. Peters
Forum Technical Chair: D. Banerjee

1991-1992
Chair: Eugene Buckley
President: Thomas Gunn
Secretary/Treasurer: Edward J. Renouard
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MW Vice President: David J. Weller
SW Vice President: Warren H. Young
W. Vice President: William J. Snyder
International Vice President: Luciano Forazani
Directors: Peter J. Cross, Jerry M. Bazzetta, Derek S. Hart, Emmett F. Knight, Jing G. Yen, Dean E. Cooper, Thomas L. House, John J. Shapley, John D. Mimnaugh
Technical Director: T. L. House
Membership Chair: J. T. Brieger
Journal Editor: D. A. Peters
Forum Technical Chair: D. Banerjee

1990-1991
SW Vice President  J. G. Yen
W Vice President   P. J. Cross
International Vice President D. K. Berrington
Directors   A. L. Pucker
D. M. Brewer
A. H. Schoen
K. M. Rosen
J. W. White
A. W. Myers
C. C. Crawford, Jr.
J. J. Shapley
J. D. Mimnaugh
W. H. Dekert
Technical Director  T. L. House
Membership Chair  E. G. Riesenfeld
VFF Chair   R. B. Lewis II
Journal Peters  D. A. Peters
Forum Technical Chair  T. L. Wood
1985-1986
Chair    L. M. Homer
President   R. Zincone
Secretary/Treasurer  R. E. Carter
NE Vice President  C. D. McCall
ME Vice President  T. L. House
SE Vice President  D. M. Brewer
MW Vice President  E. G. Lilley
W Vice President   A. L. Pucker
International Vice President H. B. Huber
Directors   J. C. Ziemba
Technical Director  D. S. Jenny
Membership Chair  C. R. Melgin, Jr.
VFF Chair   J. Shaw
Journal Editor   J. Vause
Forum Technical Chair  E. R. Wood

1986-1987
Chair    R. B. Lewis
President   L. M. Homer
Secretary/Treasurer  R. Zincone
NE Vice President  E. S. Carter
ME Vice President  C. D. McCall
SE Vice President  D. M. Brewer
MW Vice President  T. L. House
W Vice President   D. M. Brewer
International Vice President H. B. Huber
Directors   J. C. Ziemba
Technical Director  D. S. Jenny
Membership Chair  E. Z. Castillo
VFF Chair   J. Shaw
Journal Editor   J. Vause
Forum Technical Chair  E. R. Wood

1987- 1988
Chair    N. B. Hirsh
President   W. J. Crawford III
Secretary/Treasurer  W. W. Walls
NE Vice President  E. E. Cooper
ME Vice President  D. M. Brewer
SE Vice President  J. W. White
MW Vice President  J. M. Bazzetta
W Vice President   A. W. Myers
International Vice President D. K. Berrington
Technical Director  D. S. Jenny
Membership Chair  C. R. Melgin, Jr.
Forum Technical Chair   E. E. Cooper
1984-1985
Chair    R. B. Lewis
President   L. M. Homer
Secretary/Treasurer  R. E. Carter
NE Vice President  C. D. McCall
ME Vice President  T. L. House
SE Vice President  D. M. Brewer
MW Vice President  E. G. Lilley
W Vice President   A. L. Pucker
International Vice President H. B. Huber
Directors   J. C. Ziemba
Technical Director  D. S. Jenny
Membership Chair  E. Z. Castillo
Forum Technical Chair   E. E. Cooper
1983-1984
Chair    J. Mallen
President   R. B. Lewis
Secretary/Treasurer  L. M. Homer
NE Vice President  E. S. Carter
ME Vice President  J. C. Ziemba
SE Vice President  R. L. Stoessner
MW Vice President  D. P. Schrage
W Vice President   J. Mallen
International Vice President H. B. Huber
Directors   J. C. Ziemba
Technical Director  D. S. Jenny
Membership Chair  E. Z. Castillo
VFF Chair   J. Mallen
Forum Technical Chair  W. A. Kuczynski
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**1982-1983**

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