

Technical Structure

Technical Council

The Technical Council and technical committees of the Society work toward establishing and maintaining the Society's reputation as an organization that industry, academia, government, and the general public can look to for assistance and direction in the field of vertical flight technology. The technical committees provide the membership with up-to-date, high quality technical information through papers and summaries of various state-of-the-art technologies.

Technical Director

Mr. Daniel Newman

Sr Tech Fellow - Airplane Product Development
Commercial Airplanes
Email: daniel.i.newman@boeing.com

Deputy Director, Aeromechanics

Dr. Marvin Moulton

Aerospace Engineer
U.S. Army Aviation & Missile Research Development &
Engineering Center
Phone: (256) 313-9024
Fax: (256) 842-9867
Email: marvin.moulton@us.army.mil

Deputy Director, Operations/Product Support

Mr. John O'Neill

Chief of Experimental Aeromechanics
Sikorsky Aircraft Corporation
Phone: (203) 386-6883
Fax: (860) 998-5893
Email: joneill@sikorsky.com

Deputy Director, System Engineering

Ms. Theodora Saunders

Manager, System Engineering Process Group
Sikorsky Aircraft Corporation
Phone: (203) 386-6349
Fax: (860) 998-5473
Email: tsaunders@sikorsky.com

Deputy Director, Systems Integration

Mr. Dale Johnson

Aerospace Engineer
U.S. Army Aviation Applied technology Directorate
Phone: (757) 878-0123
Fax: (757) 878-2053
Email: dale.l.johnson46.civ@mail.mil

Deputy Director, Vehicle Design

Mr. Andrew Keith

Chief Engineer Proposal Center of Excellence
Sikorsky Aircraft Corporation
Phone: (203) 386-7729
Email: akeith@sikorsky.com

Deputy Director, Vehicle Integrity

Mr. Robert Wardlaw

Tech Fellow Structures
Bell Helicopter Textron, Inc.
Phone: (817) 280-5914
Email: rwardlaw@bellhelicopter.textron.com

Journal Editor-in-Chief

Prof. J.V.R. Prasad

Professor
Georgia Institute of Technology
Phone: (404) 894-3043
Fax: (404) 894-2760
Email: jvr.prasad@aerospace.gatech.edu

Forum Technical Chair

Mr. Michael Smith

Chief, Structural Dynamics
Bell Helicopter Textron, Inc.
Phone: (817) 280-5005
Fax: (817) 278-5005
Email: mrsmith@bellhelicopter.textron.com

Deputy Forum Technical Chair

Dr. Marilyn Smith

Associate Professor
Georgia Institute of Technology
Phone: (404) 894-3065
Fax: (404) 894-2760
Email: marilyn.smith@ae.gatech.edu

Appointed Members

Dr. John Berry

Supervisory Aerospace Engineer
U.S. Army AMRDEC-AFDD-JRPO
Phone: (757) 864-4650
Email: john.berry@us.army.mil

Mr. Joseph Carbonaro

Technical Director, HX-21 (former Rotary Wing)
U.S. Navy Naval Air Warfare Center Aircraft Division
Phone: (301) 342-1776
Fax: (301) 341-1764
Email: joseph.carbonaro@navy.mil

Mr. Yves Favennec

V.P. Research and Innovation
Eurocopter Eurocopter Marignane
Phone: 33 442-856274
Fax: 33 442-858605
Email: yves.favennec@eurocopter.com

Ms. Sandra Hoff

Deputy Commander AATD
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-3507
Fax: (757) 878-1323
Email: sandy.hoff@us.army.mil

Mr. John Kinzer

Program Officer, Air Warfare
U.S. Navy Office of Naval Research
Phone: (703) 696-7917
Fax: (703) 696-4274
Email: john.kinzer@navy.mil

Dr. John Leverton

Leverton Associates International
Phone: (803) 802-9976
Fax: (803) 802-9976
Email: lai@comporium.net

Mr. Wayne Mantay

Chief Aero Performance Div.
NASA Langley Research Center U.S. Army
Phone: (757) 864-3953
Fax: (757) 864-3970
Email: Manyleaves@cox.net

Mr. John McKeown

Consultant
Consultant
Phone: (540) 373-0911
Email: jcmckeown@verizon.net

Dr. Shigeru Saito

Japan Aerospace Exploration Agency
Phone: 81-50-3362-3152
Fax: 81-422-40-3235
Email: ssaito@chofu.jaxa.jp

Dr. James Wang

Vice President for Research & Development
AgustaWestland
Phone: -3466603298
Email: james.wang@agustawestland.com

Phone: (240) 893-1943
Email: arbiter@umd.edu

Educational Representative**Prof. Mark Costello**

Associate Professor
Georgia Institute of Technology
Phone: (404) 385-4303
Email: mark.costello@ae.gatech.edu

Human Powered Helicopter Coordinator**Mr. Benjamin Hein**

Engineer
Sikorsky Aircraft Corp
Phone: (301) 405-1142
Email: bhein@sikorsky.com

History Chair**Mr. Robert Beggs**

Sr. Manager, Global Services & Support
The Boeing Company
Phone: (610) 591-8362
Email: robert.m.beggs@boeing.com

Ex-Officio**Mr. John Davis**

Consultant
Email: john.m.davis.us@gmail.com

Ms. Susan Gorton

Project Manager, Subsonic Rotary Wing
NASA Langley Research Center
Phone: (757) 864-5059
Email: susan.a.gorton@nasa.gov

Mr. Charles Hughes

Consultant
Phone: (480) 325-3320
Email: charleswhughesjr@msn.com

Mr. Marc Sheffler

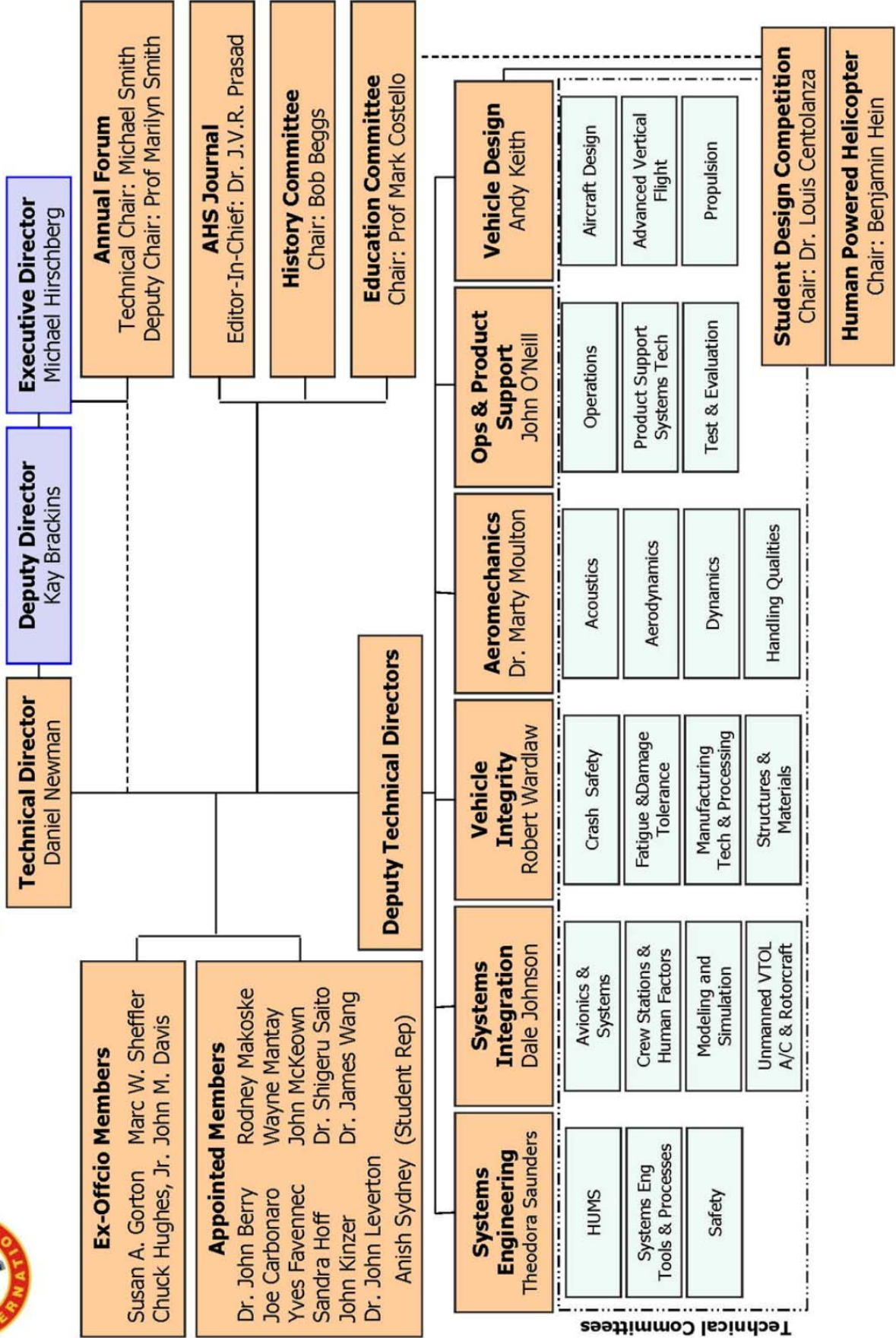
Retired
Email: marcsheffler@comcast.net

Student Member**Mr. Anish Sydney**

Student
University of Maryland



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Technical Organization Chart

Technical Committees

Updated October 2012

ACOUSTICS COMMITTEE: This committee studies component and full-system noise generation and propagation of internal and external noise alleviation through active and passive control are also investigated.

Chair

Dr. David Boyd

Research Aerospace Engineer
NASA Langley Research Center
Phone: (757) 864-5947
Fax: (757) 864-8290
Email: D.D.Boyd@nasa.gov

Deputy Chair

Mr. Perry Ziegenbein

Technical Fellow
The Boeing Company
Phone: (610) 591-2269
Fax: (610) 591-2448
Email: perry.r.ziegenbein@boeing.com

Session Chair

Mr. Timothy Samuels

Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-1472
Email: tosamuels@bellhelicopter.textron.com

Deputy Session Chair

Mr Christopher Hobbs

Senior Acoustician
Wyle Labs EERC
Phone: (703) 415-4550 ext. 39
Fax: (703) 415-4556
Email: chris.hobbs@wyle.com

Technical Council Liaison

Dr. Marvin Moulton

Aerospace Engineer
U.S. Army Aviation & Missile Research Development & Engineering Center
Phone: (256) 313-9024
Fax: (256) 842-9867
Email: marvin.moulton@us.army.mil

Members

Mr. David Conner

Aerospace Engineer
NASA Langley Research Center U.S. Army
Phone: (757) 864-5276
Fax: (757) 864-8290
Email: david.a.conner@nasa.gov

Dr. Fabrice Falissard

ONERA
Phone: +33 14 673 4650
Fax: +33 14 376 4166
Email: Fabrice.Falissard@onera.fr

Dr. Marc Gervais

Acoustics Dept.
Eurocopter Eurocopter Marignane
Phone: 33-44-285-8585
Email: Marc.Gervais@eurocopter.com

Mr. Eric Jacobs

Principal Engineer
Sikorsky Aircraft Corporation
Phone: (203) 386-6015
Fax: (860) 998-5819
Email: ejacobs@sikorsky.com

Dr. Ram JanakiRam

Manager
The Boeing Company
Phone: (480) 891-6057
Fax: (480) 891-7671
Email: ram.d.janakiram@boeing.com

Dr. Seungho Kim

Head of Rotor Department
Korea Aerospace Research Institute
Phone: 82-42-860-2287
Email: kseungho@kari.re.kr

Dr. David Schein

Program Manager
Northrop Grumman Corp. Aerospace Systems
Phone: (310) 332-6964
Fax: (310) 331-5323
Email: david.schein@ngc.com

Dr. Yasutada Tanabe

Associate Senior Researcher
Japan Aerospace Exploration Agency APG/OST
Phone: 81 422-40-3230
Fax: 81 422-40-3235
Email: tan@chofu.jaxa.jp

Prof. Charles Tinney

Assistant Professor
The University of Texas at Austin
Phone: (512) 471-4147
Email: cetinney@mail.utexas.edu

Dr. Gloria Yamauchi

Aerospace Engineer
NASA Ames Research Center
Phone: (650) 604-6719
Fax: (650) 604-6717
Email: Gloria.K.Yamauchi@nasa.gov

Student Member

Mr. Cal Sargent

Student
University of Maryland
Phone: (301) 651-2010
Email: calsgent@gmail.com

Honorary

Dr. John Leverton

Leverton Associates International
Phone: (803) 802-9976
Fax: (803) 802-9976
Email: lai@comporium.net

Prof. Fredric Schmitz

Educator
University of Maryland
Phone: (650) 604-2900
Email: fschmitz@umd.edu

ADVANCED VERTICAL FLIGHT COMMITTEE: This committee's purpose is to broaden the vertical flight technology base with emphasis on VSTOL concepts beyond the conventional rotorcraft area.

Chair

Dr. Naipei Bi

Aerospace Engineer
U.S. Navy Naval Surface Warfare Center, Carderock Division
Phone: (301) 227-4236
Fax: (301) 227-2584
Email: naipei.bi@navy.mil

Deputy Chair

Dr. Michael Yu

Research Associate
Continuum Dynamics, Inc.
Phone: (609) 538-0444 ext. 115
Fax: (609) 538-0464
Email: michael@continuum-dynamics.com

Session Chair

Mr. Kit Borden

Aerospace Engineer
U.S. Army Aviation Engineering Directorate
Phone: (256) 313-9007
Email: kit.borden@us.army.mil

Deputy Session Chair

Dr. Janet Sater

Research Staff
Institute of Defense Analyses
Phone: (703) 578-2978
Fax: (703) 931-7792
Email: jsater@ida.org

Secretariat

Dr. Mark Couch

Research Staff Member
Institute For Defense Analysis
Phone: (703) 845-2530
Fax: (703) 575-4690
Email: mcouch@ida.org

Technical Council Liaison

Mr. Andrew Keith

Chief Engineer Proposal Center of Excellence
Sikorsky Aircraft Corporation
Phone: (203) 386-7729
Email: akeith@sikorsky.com

Members

Dr. Paul Bevilaqua

Mgr. Advanced Development Projects
Lockheed Martin Corporation Aeronautics Company
Phone: (661) 572-6920
Fax: (661) 572-6198
Email: paul.bevilaqua@lmco.com

Mr. Charles Crawford

Technical Advisor
Georgia Tech Research Institute
Phone: (770) 617-0510
Fax: (404) 407-8077
Email: charlie.crawford@gtri.gatech.edu

Mr. Kevin Lewelling

Engineer
Lockheed Martin Corporation Aeronautics Co.
Phone: (661) 572-2423
Email: kwlstw@yahoo.com

Mr. Christopher Martin

Institute For Defense Analyses
Phone: (703) 578-2715
Email: cmartin@ida.org

Mr. Gene Munson

Consultant Boundary Research (LLC)
The Boeing Company (Ret.) Rotorcraft Division
Phone: (830) 992-2065
Email: gpmtestassoc@austin.rr.com

Mr. Tim Naumowicz

Aerospace Engineer
NASA Ames Research Center
Phone: (650) 604-6674
Fax: (650) 604-6990
Email: tim.naumowicz@nasa.gov

Dr. Jayant Sirohi

Assistant Professor
University of Texas Austin
Phone: (512) 471-4186
Email: jayant.sirohi@mail.utexas.edu

Dr. Bob Wood

Professor Emeritus
Naval Postgraduate School Dept. of Mechanical & Aerospace
Engineering
Phone: (831) 655-0559
Fax: (831) 656-7884
Email: helo609@att.net

AERODYNAMICS COMMITTEE: This committee studies lift and external propulsion components and systems and their interaction; airframe aerodynamics; noise mechanisms; overall performance; and air loads.

Chair**Dr. Glen Whitehouse**

Associate
Continuum Dynamics, Inc.
Phone: (609) 538-0444 ext. 126
Fax: (609) 538-0464
Email: glen@continuum-dynamics.com

Deputy Chair**Dr. Narayanan Komerath**

Professor
Georgia Institute of Technology
Phone: (404) 894-3017
Email: komerath@gatech.edu

Session Chair**Dr. Chunhua Sheng**

Associate Professor
University of Toledo
Phone: (419) 530-8248
Fax: (419) 530-8206
Email: chunhua.sheng@utoledo.edu

Deputy Session Chair**Mr. Mark Potsdam**

Aerospace Engineer
U.S. Army Aeroflightdynamics Directorate
Phone: (650) 604-4455
Fax: (650) 604-5713
Email: mark.potsdam@us.army.mil

Technical Council Liaison**Dr. Marvin Moulton**

Aerospace Engineer
U.S. Army Aviation & Missile Research Development &
Engineering Center
Phone: (256) 313-9024
Fax: (256) 842-9867
Email: marvin.moulton@us.army.mil

Members**Dr. Jennifer Abras**

Aerospace Engineer
U.S. Navy Naval Air Systems Command
Phone: (301) 342-8539
Fax: (301) 342-8588
Email: jennifer.abras@navy.mil

Mr. Philippe Beaumier

Engineer
ONERA
Phone: 33-1-4673-4238
Fax: 33-1-4673-64146
Email: beaumier@onera.fr

Dr. Neal Chaderjian

Research Scientist
NASA Ames Research Center
Phone: (650) 604-4472
Email: neal.chaderjian@nasa.gov

Mr. Michael Farrell

Associate Technical Fellow - Aerodynamics
Bell Helicopter Textron, Inc.
Phone: (817) 280-5061
Fax: (817) 278-5061
Email: mfarrell@bellhelicopter.textron.com

Prof. Kenneth Hall

Professor
Duke University
Phone: (919) 660-5328
Email: kenneth.c.hall@duke.edu

Prof. Oh Joon Kwon

Professor
Korea Advanced Institute of Science & Technology Dept. of
Aerospace Engineering
Phone: 8242-350-3720
Fax: 8242-350-3710
Email: ojkwon@kaist.ac.kr

Ms. Elizabeth M. Lee-Rausch

Research Engineer
NASA Langley Research Center
Phone: (757) 864-8422
Fax: (757) 864-8816
Email: e.lee-rausch@nasa.gov

Mr Edward Reed

Sikorsky Aircraft Corp.
Email: edward.reed@gmail.com

Mrs. Beth Romanowski

Flight Performance Engineer
The Boeing Company
Phone: (480) 891-4739
beth.a.romanowski@boeing.com

Dr. Tin-Chee Wong

Aerospace Engineer
U.S. Army
Phone: (256) 313-9036
Fax: (256) 842-9867
Email: tinchee.wong@us.army.mil

Mr. Thomas Zientek

Sr. Engineer, Acoustics
The Boeing Company
Phone: (610) 591-2402
Fax: (610) 591-2448
Email: thomas.a.zientek@boeing.com

Honorary Member**Mr. William Bousman**

Consultant
Quercus Associates
Phone: (650) 322-5282
Email: barlowi@earthlink.net

AIRCRAFT DESIGN COMMITTEE: This committee coordinates Society activities on (a) overall aircraft, subsystem, and component design; (b) design technology, design criteria, and design synthesis; (c) interdisciplinary design considerations including performance, reliability, maintainability, weights, and economics; and (d) vulnerability and crash safety considerations.

Chair**Dr. Martin Sekula**

Research Engineer
NASA Langley Research Center
Phone: (757) 864-1269
Fax: (757) 864-8678
Email: martin.k.sekula@nasa.gov

Deputy Chair**Mr. Luigi Ricci Moretti**

Engineering Licenses and Support
AgustaWestland
Phone: 39-0331-229 458
Email: Luigi.RicciMoretti@agustawestland.com

Session Chair**Mr. Charles Kilmain**

Director - Rotors and Drive System Design
Bell Helicopter Textron, Inc.
Phone: (817) 280-5889
Email: ckilmain@bellhelicopter.textron.com

Deputy Session Chair**Mr. Dennis McGuire**

Senior Staff Engineer
Lord Corporation
Phone: (814) 868-5424 ext. 6630
Fax: (814) 860-3513
Email: dennis.mcguire@lord.com

Secretary**Dr. Farhan Gandhi**

Professor of Aerospace Eng
Pennsylvania State University
Phone: (814) 865-1164
Fax: (814) 865-7092
Email: fgandhi@psu.edu

Generations POC**Mr. Roger Lacy**

Technology Integration Engineer
The Boeing Company
Phone: (610) 591-5175
Fax: (610) 591-8238
Email: roger.w.lacy@boeing.com

Highlights Editor**Dr. Louis Centolanza**

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-4292
Fax: (757) 878-4330
Email: louis.r.centolanza.civ@mail.mil

Technical Council Liaison**Mr. Andrew Keith**

Chief Engineer Proposal Center of Excellence
Sikorsky Aircraft Corporation
Phone: (203) 386-7729
Email: akeith@sikorsky.com

Members**Dr. Uwe Arnold**

Director Development Rotor Components
ZF Luftfahrttechnik GmbH
Phone: 49-5674-701-402
Fax: 49-5674-701-499
Email: uwe.arnold@zf.com

Mr. Mark Dreier

Staff Engineer, Pre-Design
Bell Helicopter Textron, Inc.
Phone: (817) 280-5890
Fax: (817) 278-5890
Email: mdreier@bh.com

Mr. Hiroshi Ito

Senior Staff Officer, Helicopter Proj. Eng. Dept.
Kawasaki Heavy Industries Ltd.
Phone: 81-583-82-3112
Fax: 81-583-82-5195
Email: ito_hiroshi@khi.co.jp

Mr. Robert Kufeld

Aerospace Engineer
NASA Ames Research Center
Phone: (650) 604-5664
Fax: (650) 604-6717
Email: robert.kufeld@nasa.gov

Mr. Wolf-Dieter Kuhnla

SVP Engineering
Diehl Aircabin GmbH
Phone: 49-9097-920490
Fax: 49-9097-920125
Email: dieter.kuhnla@diehl-aircabin.de

Dr. Richard Markiewicz

Rotorcraft Systems Engineer
Defence Science and Technology Laboratory (DSTL)
Phone: 44-239253-7102
Fax: 44-239253-7790
Email: rhmarkiewicz@dstl.gov.uk

Dr. Vengalattore Nagaraj

Senior Research Scientist
University of Maryland
Phone: (301) 405-1143
Fax: (301) 314-9001
Email: vnagaraj@umd.edu

Mr. Frederick Piasecki

Chairman of the Board & Chief Technology Officer
Piasecki Aircraft Corporation
Phone: (610) 521-5700
Fax: (610) 521-5935
Email: piasecki_fw@piasecki.com

Mr. James Renna

VP - Engineering Safety, Test & Evaluation
Sikorsky Aircraft Corporation
Phone: (203) 386-4241
Fax: (860) 998-6503
Email: jrenna@sikorsky.com

Dr. Mark Robeson

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-3029
Fax: (757) 878-4330
Email: mark.robeson@us.army.mil

Dr. Arvind Sinha

Director of Engineering
Australian Department of Defense
Phone: 61-39-256-3673
Fax: 61-39-256-1968
Email: arvind.sinha1@defence.gov.au

Mr. Jeffrey Sinsay

Aerospace Engineer
U.S. Army Aeroflightdynamics Directorate
Phone: (650) 604-6157
Email: sinsay@merlin.arc.nasa.gov

Mr. Robert Stroub

Consultant
Phone: (775) 882-6425
Email: bstroub@yahoo.com

Dr. Marat Tishchenko

Professor
Moscow State Aviation Institute (Technical University)
Phone: 07-495-683-7829
Email: marat.tishchenko@gmail.com

AVIONICS & SYSTEMS COMMITTEE: This committee studies avionics, armament, and other mission equipment, and human engineering subsystems synthesis, integration and design relating to aircraft missions.

Chair**Mr. Ryland Barlow**

MH-47 Deputy Product Manager
U.S. Army Technology Applications Program Office
Phone: (757) 878-0730 ext. 233
Email: ryland.barlow@us.army.mil

Deputy Chair**Mr. Allen Walker**

Electrical Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-2516
Fax: (757) 878-2053
Email: allen.d.walker@us.army.mil

Session Chair**Dr. Melvin Johnson**

Lead Engineer, Avionics
U.S. Army Aviation Engineering Directorate
Phone: (256) 313-8461
Email: mel.johnson1@us.army.mil

Deputy Session Chair**Dr. Walter Rawle**

Director, Advanced Projects & Research
Ultra Electronic Flightline Systems
Phone: (585) 742-5384
Email: walter.rawle@ultra-fei.com

Technical Council Liaison**Mr. Dale Johnson**

Aerospace Engineer
U.S. Army Aviation Applied technology Directorate
Phone: (757) 878-0123
Fax: (757) 878-2053
Email: dale.l.johnson46.civ@mail.mil

Members**Mr. Andrew Augenstein**

Integration Engineer
The Boeing Company
Phone: (602) 793-6801
Email: andrewaugenstein@aol.com

Mr. Chris Bodenhorn
Senior Program Manager
Lockheed Martin Corporation
Phone: (607) 751-5699
Fax: (607) 751-6109
Email: chris.bodenhorn@lmco.com

Mr. John Colclough
Staff Engineer
Honeywell
Phone: (505) 828-7862
Fax: (505) 828-5500
Email: john.colclough@honeywell.com

Mr. Daniel Cooper
Sikorsky Aircraft Corporation
Phone: (203) 386-7226
Email: dmcooper@sikorsky.com

Mr. Joseph Franiak
Business Development Manager
Northrop Grumman Corp.
Phone: (818) 715-4716
Fax: (818) 715-4776
Email: joseph.franiak@ngc.com

Mr. Ronald Koontz
Associate Technical Fellow
The Boeing Company
Phone: (480) 891-2065
Fax: (480) 891-4946
Email: ron.j.koontz@boeing.com

Mr. John Makadi
Senior Systems Engineer
CMC Electronics Inc.
Phone: (613) 592-7416
Fax: (613) 592-7419
Email: john.makadi@cmcelectronics.ca

Mr. Paul Meyers
Manager, Attack Helicopter Programs Modernization
The Boeing Company Boeing Military Aircraft
Phone: (480) 891-6538
Fax: (480) 891-6922
Email: paul.r.meyers@boeing.com

Mr. Paul Rannik
Chief Engineer
EADS North America Rotorcraft
Phone: (703) 466-5797
Email: paul.rannik@eads-na.com

Mr. Harold Tiedeman
Principal System Architect
Rockwell Collins
Phone: (319) 295-0424
Email: hgtiedem@rockwellcollins.com

Mr. Chris Weaver
Principal Systems Engineer
BAE Systems
Phone: (607) 770-2960
Email: chris.weaver@baesystems.com

CRASH SAFETY COMMITTEE: This committee studies all aspects of rotorcraft crashworthiness technology including human tolerance to crash impacts, in-flight obstacle strike, cockpit delethalization, crashworthy fuel systems, ditching and post-impact flotation, energy absorbing components such as landing gears, subfloor structure, seats and restraint systems with associated design criteria formulation, analytical model development, testing, and system integration into a crashworthy rotorcraft design.

Chair

Mr. Lindley Bark
Principal Engineer
Honeywell Intl.
Phone: (480) 699-3690
Email: Lindley.Bark@Honeywell.com

Secretary

Dr. David Laananen
Professor Emeritus (Retired)
Arizona State University (Ret)
Phone: (541) 846-0500
Email: david.laananen@asu.edu

Session Chair

Dr. Cheng-Ho Tho
Principal Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-8462
Fax: (817) 278-8462
Email: ctho@bh.com

Deputy Session Chair

Dr. Akif Bolukbasi
Senior Technical Fellow
The Boeing Company
Phone: (480) 891-5111
Fax: (480) 891-7671
Email: akif.o.bolukbasi@boeing.com

Technical Council Liaison

Mr. Robert Wardlaw
Tech Fellow Structures
Bell Helicopter Textron, Inc.
Phone: (817) 280-5914
Email: rwardlaw@bellhelicopter.textron.com

Members

Mr. Allan Abramowitz
RPD Manager Crashworthiness
Federal Aviation Administration
Phone: (609) 485-5885
Email: allan.abramowitz@faa.gov

Mr. LeRoy Burrows

Self Employed Consultant
Retired
Phone: (757) 784-0351
Email: royburrows1@cox.net

Mr. Charles Clarke

Senior Analyst
Sikorsky Aircraft Corporation
Phone: (203) 386-3515
Fax: (860) 998-5810
Email: Cclarke@sikorsky.com

Mr. John Crocco

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-3008
Email: John.P.Crocco.Civ@mail.mil

Dr. Stanley Desjardins

President
Safe, Inc.
Phone: (480) 820-2032 ext. 204
Fax: (480) 820-2072
Email: stan.desjardins@safeinc.us

Mr. Roy Fox

Email: rgfox10@gmail.com

Mr. Alexander Harris

Program Manager
BAE Systems, Land & Armaments, Mobility & Protection Systems
Phone: (602) 643-7216
Fax:
Email: alex.harris@baesystems.com

Dr. Karen Jackson

Aerospace Engineer
NASA Langley Research Center
Phone: (757) 864-4147
Fax: (757) 864-8547
Email: Karen.E.Jackson-1@nasa.gov

Mr. Christof Kindervater

Department Chief Structural Integrity
German Aerospace Research Center (DLR)
Phone: 49-711-6862-280
Fax: 49-711-6862-227
Email: christof.kindervater@dlr.de

Ms. Heidi Moore

Aerospace Engineer
U.S. Navy Naval Air Systems Command
Phone: (301) 342-2795
Fax: (301) 342-9404
Email: heidi.r.moore@navy.mil

Dr. Joseph Pelletiere

Chief Scientific and Technical Advisor for Crash Dynamics
Federal Aviation Administration

Phone: (937) 822-1073
Email: joseph.pelletiere@faa.gov

Mr. Bryan Pilati

Aerospace Engineer
US Army
Phone: (757) 878-5839
Email: bryan.pilati@us.army.mil

Mr. Michael Schultz

Mechanical Engineer
U.S. Navy Naval Air Warfare Center
Phone: (301) 342-8451
Fax: (301) 757-8503
Email: michael.schultz@navy.mil

Prof. Norman Wereley

Professor
University of Maryland
Phone: (301) 405-1927
Fax: (301) 314-9001
Email: wereley@umd.edu

CREW STATIONS & HUMAN FACTORS ENGINEERING COMMITTEE:

This committee studies operational environments and mission requirements for identification of the aircrew and maintainer vehicle interface issues that impact workload and mission success. This includes the study of integrated crew station design; control concepts; information transfer; display methodology; symbology and formats; automation and artificial intelligence concepts; prototyping of crew systems; and the interdisciplinary interface of crew systems with other vehicle systems.

Chair

Mr. Roy Wagner

Systems Engineer
Lockheed Martin Corporation
Phone: (607) 751-2117
Fax: (607) 751-6896
Email: roy.wagner@lmco.com

Session Chair

Ms. Kristin Little

The Boeing Company
Email: kristin.little@boeing.com

Deputy Session Chair

Mr. Jeffery Erwin

Human Factors Engineering & Crew Systems Design
Bell Helicopter Textron, Inc.
Phone: (817) 280-1928
Fax: (817) 278-1928
Email: jerwin@bellhelicopter.textron.com

Technical Council Liaison

Mr. Dale Johnson

Aerospace Engineer
U.S. Army Aviation Applied technology Directorate

Phone: (757) 878-0123
Fax: (757) 878-2053
Email: dale.l.johnson46.civ@mail.mil

Members

Mr. James Grenell

Manager, Crew Station/Human Factors
The Boeing Company
Phone: (610) 591-6906
Fax: (610) 591-8238
Email: james.f.grenell@boeing.com

Mr. Matthew Hannen

Associate Technical Fellow
The Boeing Company
Phone: (480) 891-7409
Fax: (480) 891-1823
Email: matt.hannen@boeing.com

Mr. Shawn Hefner

Aerospace Engineer
U.S. Army
Phone: (757) 878-2374
Email: shawn.hefner@us.army.mil

Mr. Patrick Mason

Technology Applications Project Officer
US Army
Phone: (757) 878-3299 ext. 224
Email: phmason2216@gmail.com

Mr. Dennis Schmickley

Technical Fellow
The Boeing Company
Phone: (480) 891-6521
Fax: (480) 891-1823
Email: dennis.l.schmickley@boeing.com

Mr. Robert Shively

Human Systems Group Ldr.
US Army
Phone: (650) 604-6249
Fax: (650) 604-2414
Email: robert.j.shively@us.army.mil

Mrs. Adrienne Sullivan

Human Factors Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-2796
Email: arsullivan@bellhelicopter.textron.com

Mr. Zoltan Szoboszlai

Engineer
U.S. Army Aeroflightdynamics Directorate
Phone: (650) 604-5164
Email: z.szoboszlai@us.army.mil

DYNAMICS COMMITTEE: This committee studies aeroelasticity; mechanical stability, vibration characteristics and isolation; structural response to steady and unsteady aerodynamics and other loading, including: noise, gusts, landing, and criteria.

Chair

Dr. Hyeonsoo Yeo

Research Scientist
U.S. Army Aeroflightdynamics Directorate
Phone: (650) 604-6168
Fax: (650) 604-5173
Email: hyeonsoo.yeo@us.army.mil

Deputy Chair

Dr. Ing. Peter Konstanzer

Manager Dynamics & Vibration
Eurocopter Deutschland GmbH
Phone: 49-89-6000-8846
Email: peter.konstanzer@eurocopter.com

Session Chair

Dr. Mark Wasikowski

Principal Engineer, Rotor Dynamics & Aeromechanics
Bell Helicopter Textron, Inc.
Phone: (817) 280-7774
Fax: (817) 278-7774
Email: markwasikowski@bh.com

Deputy Session Chair

Dr. Matthew Floros

Research Aerospace Engineer
U.S. Army Research Laboratory
Phone: (410) 278-7752
Fax: (410) 278-4983
Email: matthew.w.floros.civ@mail.mil

Technical Council Liaison

Dr. Marvin Moulton

Aerospace Engineer
U.S. Army Aviation & Missile Research Development & Engineering Center
Phone: (256) 313-9024
Fax: (256) 842-9867
Email: marvin.moulton@us.army.mil

Members

Dr. Sandeep Agarwal

Rotor Dynamics Engineer
The Boeing Company
Phone: (480) 891-0800
Email: sandeep.agarwal2@boeing.com

Dr. James Baeder

Associate Professor
University of Maryland
Phone: (301) 405-1107
Fax: (301) 405-9001
Email: baeder@umd.edu

Dr. Jinsong Bao

Dynamicist
Sikorsky Aircraft Corporation Dynamics & Internal Acoustics
Phone: (203) 386-7527
Email: jbao@sikorsky.com

Dr. Christian Brackbill

Aerospace Engineer
U.S. Army AMRDEC
Phone: (256) 313-9008
Email: christian.brackbill@us.army.mil

Mr. Italo Cafarelli

Engineer
ONERA
Phone: 33-14673-4673
Fax: 33-14673-4143
Email: italo.cafarelli@onera.fr

Prof. Peretz Friedmann

Prof. of Aerospace Eng.
University of Michigan
Phone: (734) 763-2354
Fax: (734) 763-0578
Email: peretzf@umich.edu

Dr. Chengjian He

Director of R & D
Advanced Rotorcraft Technology, Inc.
Phone: (408) 523-5103
Fax: (408) 732-1206
Email: he@flightlab.com

Prof. Dewey Hodges

Professor
Georgia Institute of Technology
Phone: (404) 894-8201
Fax: (404) 894-9313
Email: dhodges@gatech.edu

Dr. Barbara McCown-McClintick

Lead V-22 Dynamics Engineer
The Boeing Company
Phone: (610) 591-2816
Fax: (610) 591-2116
Email: barbara.mccown-mcclintick@boeing.com

Mr. Carl Russell

NASA
Phone: (650) 604-0744
Fax: (650) 604-6717
Email: Carl.R.Russell@nasa.gov

Prof. Sangjoon Shin

Associate Professor
Seoul National University School of Mechanical and Aerospace
Engr.
Phone: (822) 880-1642
Fax: (822) 887-2662
Email: ssjoon@snu.ac.kr

Dr. Edward Smith

Associate Prof. of Aero Engr.
Pennsylvania State University
Phone: (814) 863-0966
Fax: (814) 865-7092
Email: ecs5@psu.edu

Mr. John Vorwald

Aerospace Engineer
U.S. Navy
Phone: (301) 227-1582
Fax: (301) 227-2584
Email: john.vorwald@navy.mil

Honorary Members**Dr. Wayne Johnson**

Aerospace Engineer
NASA Ames Research Center
Phone: (650) 604-2242
Fax: (650) 604-6717
Email: wayne.johnson@nasa.gov

Prof. Robert Loewy

Retired Professor
Georgia Institute of Technology
Phone: (215) 546-2757
Fax: (404) 894-2760
Email: robert.loewy@ae.gatech.edu

HANDLING QUALITIES COMMITTEE: This Committee studies flying qualities, stability and controls; response modeling criteria, control systems; and ground and water handling.

Chair**Mr. John Schillings**

Chief, Handling Qualities
Bell Helicopter Textron, Inc.
Phone: (817) 280-5056
Fax: (817) 278-5056
Email: jschillings@bellhelicopter.textron.com

Session Chair**Mr. Marc Hoefinger**

Head of Rotorcraft Department
German Aerospace Research Center (DLR) Flight Systems
Phone: +49 531 295 3249
Fax: +49 531 295 2641
Email: marc.hoefinger@dlr.de

Deputy Session Chair**Dr. Michael Jump**

Lecturer
The University of Liverpool
Phone: 44-151-794-6845
Email: mjump1@liverpool.ac.uk

Safety TC Liaison

Mr. James Pritchard

Aeronautical Engineer
U.S. Marine Corps.
Phone: (301) 342-8546
Email: james.a.pritchard@navy.mil

Technical Council Liaison

Dr. Marvin Moulton

Aerospace Engineer
U.S. Army Aviation & Missile Research Development &
Engineering Center
Phone: (256) 313-9024
Fax: (256) 842-9867
Email: marvin.moulton@us.army.mil

Members

Mr. Daniel Alvarez

Staff Engineer, Research
Systems Technology, Inc.
Phone: (310) 679-2281
Email: dalvarez@systemstech.com

Mr. Riccardo Bianco-Mengotti

Flight Mechanics Manager
Agusta Italy
Phone: 39-0331-229-288
Fax: 39-0331-711-813
Email: riccardo.biancomengotti@agustawestland.com

Mr. Chris Blanken

Chief, Flight Control & Cockpit Integration Division
U.S. Army Aeroflightdynamics Directorate
Phone: (650) 604-5836
Fax: (650) 604-2414
Email: chris.l.blanken@us.army.mil

Dr. Roberto Celi

Professor
University of Maryland
Phone: (301) 405-1132
Fax: (301) 314-9001
Email: celi@eng.umd.edu

Mr. James Downs

Guidance & Control Analyst
Northrop Grumman Corp.
Phone: (858) 618-3408
Email: james_d_downs@yahoo.com

Mr. Joseph Driscoll

Handling Qualities
Sikorsky Aircraft Corporation
Phone: (203) 386-7377
Email: jdriscoll@sikorsky.com

Mr. Michael Fallon

Rotorcraft Technical Specialist
U.S. Navy Naval Air Systems Command
Phone: (301) 342-7890
Fax: (301) 342-8597
Email: michael.fallon@navy.mil

Mr. William Geyer

Academic Instructor
U.S. Navy US Naval Test Pilot School
Phone: (301) 757-5057
Fax: (301) 342-5003
Email: william.geyer@navy.mil

Mr. Arthur Gubbels

Research Officer
National Research Council of Canada
Phone: (613) 998-3567
Fax: (613) 952-1704
Email: bill.gubbels@nrc.ca

Mr. Mario Hamers

Flight Test Engineer / Scientist
Eurocopter Eurocopter Deutschland GmbH
Phone: 49-906-71-2797
Fax: 49-906-71-4580
Email: Mario.Hamers@eurocopter.com

Dr. Joseph Horn

Associate Professor
Pennsylvania State University
Phone: (814) 865-6434
Fax: (814) 865-7092
Email: joehorn@psu.edu

Mr. Michael Lawler

Aerospace Engineer
U.S. Army AMRDEC
Phone: (256) 313-9017
Fax: (256) 313-3197
Email: Michael.Lawler1@US.Army.mil

Mr. David Miller

Technical Fellow
The Boeing Company
Phone: (610) 591-5882
Fax: (610) 591-2448
Email: david.g.miller@boeing.com

Prof. J.V.R. Prasad

Professor
Georgia Institute of Technology
Phone: (404) 894-3043
Fax: (404) 894-2760
Email: jvr.prasad@aerospace.gatech.edu

Mr. Robert Pupalaikis

Experimental Test Pilot
US Army Rotary Wing Test Squadron
Email: robert.pupalaikis@us.army.mil

Mr. Paul Schifferle

Manager
Calspan Flight Research
Phone: (716) 236-1065
Fax: (716) 236-1001
Email: paul.schifferle@calspan.com

Dr. Paul Taylor

Technical Leader Aircraft Dynamics Rotary Wing
QinetiQ Rotary Wing Evaluation Services
Phone: 44-1980-664667
Fax: 44-1980-664289
Email: ptaylor6@Qinetiq.com

Dr. Colin Theodore

Senior Research Engineer
NASA Ames Research Center
Phone: (650) 604-1180
Email: colin.theodore@nasa.gov

Mr. George Wiggins

Aerospace Engineer
U.S. Army
Phone: (256) 313-9034
Fax: (256) 313-9034
Email: les.wiggins@us.army.mil

Honorary Members**Mr. Roger Hoh**

President
Hoh Aeronautics, Inc.
Phone: (310) 325-7255
Fax: (310) 325-7234
Email: rhoh@hoh-aero.com

Mr. James Howlett

Chief, Handling Qualities & CLAWS Analysis
Sikorsky Aircraft Corporation
Phone: (203) 386-6010
Fax: (860) 998-5820
Email: jhowlett@sikorsky.com

Prof. Gareth Padfield

Chief Scientific Officer, Virtual Engineering Centre
The University of Liverpool
Phone: 44-151-749-4800 Ext. 4859
Fax: 44-151794-4848
Email: gareth.padfield@liverpool.ac.uk

HEALTH AND USAGE MONITORING SYSTEMS (HUMS):

This committee studies the application and benefits of Helicopter Health and Usage monitoring system technology. The emphasis is focused on the application of helicopter monitoring systems, and monitoring system technologies, that have the potential of providing reduced helicopter direct operating costs and enhanced safety.

Chair**Mrs. Robab Safa-Bakhsh**

Associate Technical Fellow
The Boeing Company
Phone: (610) 591-6154
Fax: (314) 545-8682
Email: robab.safa-bakhsh@boeing.com

Deputy Chair**Mr. Nathaniel Bordick**

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-1322
Fax: (757) 878-4330
Email: nate.bordick@us.army.mil

Session Chair**Mr. Mark Davis**

Manager, Aircraft Health Management
Sikorsky Aircraft Corporation
Phone: (203) 386-7639
Fax: (860) 660-1029
Email: MADavis@sikorsky.com

Deputy Session Chair**Mr. Brian Tucker**

Principal Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-4795
Email: btucker4@bellhelicopter.textron.com

Technical Council Liaison**Ms. Theodora Saunders**

Manager, System Engineering Process Group
Sikorsky Aircraft Corporation
Phone: (203) 386-6349
Fax: (860) 998-5473
Email: tsaunders@sikorsky.com

Members**Mr. Treven Baker**

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-0155
Fax: (757) 878-0007
Email: treven.e.baker.civ@mail.mil

Mr. Brad Cameron

Principal Engr. Diagnostic Systems
AgustaWestland AgustaWestland Ltd.
Phone: 44-193-570-5126
Email: brad.cameron@agustawestland.com

Mr. Eric-Paul Carney

Aerospace Engineer
U.S. Navy Naval Air Warfare Center Aircraft Division
Phone: (301) 757-0520
Fax: (301) 995.2951
Email: eric.carney@navy.mil

Mr. Piet Ephraim

Business Unit Dir., Data Mgmt.
General Electric Aviation, Digital Systems
Phone: (616) 241-7432
Fax: (616) 241-7740
Email: piet.ephraim@smiths-aerospace.com

Mr. Graham Forsyth

Engineer
Australia DSTO
Email: GrahamFForsyth@hotmail.com

Dr. Victor Giurgiutiu

Professor
University of South Carolina
Phone: (803) 777-8018
Email: victorg@sc.edu

Dr. Adrian Hood

Research Engineer
ARL-VTD
Phone: (301) 437-1186
Fax: (410) 672-2994
Email: adrian.a.hood@us.army.mil

Dr. Jonathan Keller

Aerospace Engineer
U.S. Army
Phone: (256) 313-9015
Fax: (256) 842-9867
Email: jonathan.a.keller@us.army.mil

Mr. Praneet Menon

Email: praneet.menon@goodrich.com

Mr. Jean-Marc Pouradier

R & D Internationalization
Eurocopter Eurocopter Marignane
Phone: 33-442-85-7566
Fax: 33-442-85-8648
Email: jean-marc.pouradier@eurocopter.com

Prof. Daniel Schrage

Professor/Director CERT,CASE&IPLE Lab
Georgia Institute of Technology
Phone: (404) 894-6257
Fax: (404) 894-2760
Email: daniel.schrage@aerospace.gatech.edu

Prof. Ed Smith

Professor
Pennsylvania State University
Phone: (814) 863-0966
Fax: (814) 865-7092
Email: ecs5@psu.edu

Ms. Traci Stadtmueller

FAA HUMS Program
Federal Aviation Administration
Phone: (609) 485-4768
Fax: (609) 485-4004
Email: traci.stadtmueller@faa.gov

Mr. Jason Thomas

Structures CBM Lead
U.S. Navy Naval Air Systems Command
Phone: (301) 757-3707
Fax: (301) 342-9415
Email: jason.thomas2@navy.mil

Mr. Daniel Wade

Aerospace Engineer
U.S. Army Aviation Engineering Directorate
Phone: (256) 426-2102
Email: daniel.r.wade@us.army.mil

Honorary Member**Mr. Michael Augustin**

President/Principal Investigator
IVHM Inc.
Email: Mike@IVHM-INC.com

HISTORY COMMITTEE: The purpose of this Committee is to document and preserve the history of the theoretical and practical discoveries that led to the achievement of vertical flight.

Chair**Mr. Robert Beggs**

Sr. Manager, Global Services & Support
The Boeing Company
Phone: (610) 591-8362
Email: robert.m.beggs@boeing.com

Session Chair**Dr. Bruce Charnov**

Associate Professor Emeritus
Hofstra University
Phone: (858) 598-6284
Email: bruce.h.chnov@hofstra.edu

Members**Mr. Kenneth Bartie**

Graphic Artist
The Boeing Company Advanced Mobility
Phone: (610) 591-7271
Fax: (610) 591-3022
Email: Kenneth.m.bartie@boeing.com

COL Samuel Evans

Research Associate
Pennsylvania State University
Phone: (814) 865-8232
Email: sse11@psu.edu

LTC Paul Fardink

Director
Allied Industries - The Resource Center
Phone: (716) 661-1048
Fax: (716) 763-0024
Email: pfardink@gmail.com

Mr. Szabolcs Fulop

UH-60 Helicopter Repairer
Kansas Army National Guard
Phone: (678) 451-5715
Email: usafe@freemail.hu

Mr. David Gibbings

Flight Test Engineer (Ret.)
AgustaWestland
Phone: 44-1935-862-199
Email: gibbings@globalnet.co.uk

Mr. William Hodges

U.S. Army (Ret.)
Phone: (757) 865-2669
Email: toddhodges1@yahoo.com

Dr. Jason Pereira

Chief Aerodynamicist
Avericon
Email: jason.l.pereira@gmail.com

Mr. Erasmo Pinero

Principal Engineer
Phone: (817) 280-5588
Email: bpinero@1scom.net

Dr. John Romanski

Senior Structural Engineer
Piasecki Aircraft Corporation
Phone: (610) 521-5700 ext. 118
Fax: (610) 521-5935
Email: romanski_jw@piasecki.com

Mr. Tommy Thomason

Consultant
Hanlon Services, LLC
Phone: (203) 877-6570
Email: tommythomason@sbcglobal.net

Dr. Berend van der Wall

Senior Scientist
German Aerospace Center (DLR) Institute of Flight Systems - Helicopter
Phone: 49-531-295-2849
Fax: 49-531-295-2641
Email: berend.vanderwall@dlr.de

Dr. Bob Wood

Professor Emeritus
Naval Postgraduate School Dept. of Mechanical & Aerospace Engineering
Phone: (831) 655-0559
Fax: (831) 656-7884
Email: helo609@att.net

Advisors**Mr. Roger Connor**

Curator
Smithsonian Institution
Phone: (202) 633-2634
Fax: (202) 786-2447
Email: connorr@si.edu

Mr. Raymond Prouty

Consultant
Phone: (818) 889-8995
Email: rayprouty@aol.com

MANUFACTURING TECHNOLOGY AND PROCESSING:

This committee coordinates AHS activities related to advanced manufacturing processes that enable deployment of rotary wing products or product capabilities. These include but are not limited novel manufacturing techniques, production planning and control approaches, and design optimization methods. The ultimate goal is to publicize how Integrated Manufacturing Process and Control technologies are providing the impetus that realizes the transformation of design concepts into functional product.

Chair**Mr. Donn Hethcock**

Staff Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-3107
Email: dhethcock@bellhelicopter.textron.com

Deputy Chair/Deputy Session Chair**Mr. Jon Schuck**

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-2101
Fax: (757) 878-4330
Email: jon.c.schuck@us.army.mil

Session Chair**Mr. William Harris**

Principal Engineer
Sikorsky Aircraft Corporation
Phone: (203) 386-3568
Fax: (860) 998-6224
Email: wharris@sikorsky.com

Technical Council Liaison

Mr. Robert Wardlaw

Tech Fellow Structures
Bell Helicopter Textron, Inc.
Phone: (817) 280-5914
Email: rwardlaw@bellhelicopter.textron.com

Members

Mr. Karl Bernetich

Manufacturing & Engineering
The Boeing Company
Phone: (610) 591-3087
Email: karl.r.bernetich@boeing.com

Dr. Andrew Makeev

Associate Professor
University of Texas at Arlington Aerospace Engineering
Phone: (817) 272-3747
Email: makeev@uta.edu

Mr. Paul Oldroyd

Bell Helicopter Textron, Inc.
Phone: (817) 280-2471
Fax: (817) 278-2471
Email: poldroyd@bellhelicopter.textron.com

Prof. Daniel Schrage

Professor/Director CERT, CASE&IPLE Lab
Georgia Institute of Technology
Phone: (404) 894-6257
Fax: (404) 894-2760
Email: daniel.schrage@aerospace.gatech.edu

Mr. Dan Ursenbach

Blades Engineering
Sikorsky Aircraft Corporation
Phone: (253) 778-6747
Fax: (860) 998-8840
Email: dursenbach@sikorsky.com

MODELING AND SIMULATION COMMITTEE: This committee provides focus on the use of manned simulation in support of rotorcraft engineering design, test and evaluation, and aircrew training. The primary orientation of the committee will be toward effective scientific and engineering applications of manned flight simulation as opposed to facilities, per se.

Chair

Mr. Dean Carico

Aerospace Engineer
U.S. Navy Naval Air Systems Command
Phone: (301) 342-1382
Fax: (301) 342-1340
Email: dean.carico@navy.mil

Deputy Chair

Mr. Mark Dreier

Staff Engineer, Pre-Design
Bell Helicopter Textron, Inc.
Phone: (817) 280-5890
Fax: (817) 278-5890
Email: mdreier@bh.com

Session Chair

Dr. Rajneesh Singh

U.S. Army Research Labs
Phone: (410) 278-4983
Email: rajneesh_singh@hotmail.com

Deputy Session Chair

Dr. Mark White

Flight Simulation Lab Manager
The University of Liverpool
Phone: (44) 151794-6848
Fax: (44) 151794-6841
Email: mdw@liv.ac.uk

Safety TC Liaison

Dr. Geoffrey Jeram

Aerospace Cavalryman
U.S. Army
Phone: (216) 407-0627
Email: jeram@carefreemaneuver.com

Technical Council Liaison

Mr. Dale Johnson

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-0123
Fax: (757) 878-2053
Email: dale.l.johnson46.civ@mail.mil

Members

Mr. Bimal Aponso

Chief, Aerospace Simulation Research and Development Branch
NASA Ames Research Center
Phone: (650) 604-0471
Fax: (650) 604-3952
Email: bimal.l.aponso@nasa.gov

Dr. Marilena Bos-Pavel

Lecturer
TU Delft
Phone: (31) 15-2785374
Fax: (31) 15-2783444
Email: m.d.pavel@tudelft.nl

Mr. Christopher Bothwell

Chief Handling Qualities
Bell Helicopter Textron, Inc.
Phone: (817) 280-6073
Fax: (817) 278-6073
Email: cbothwell@bellhelicopter.textron.com

Dr. Chang Chen

Principal Member of Technical Staff
DSO National Laboratories
Phone: (656) 871-3069
Fax: (656) 872-0433
Email: cchang@dso.org.sg

Prof. Keeyoung Choi

Inha University Dept. Aerospace Engineering
Phone: 82-32-860-7352
Fax: 82-32-865-5401
Email: kchoi@inha.ac.kr

Dr. Ronald Du Val

President
Advanced Rotorcraft Technology, Inc.
Phone: (650) 968-1464
Fax: (650) 968-1978
Email: ron@flightlab.com

Mr. James Exter

Vice President & General Mgr
Mettters Incorporated
Phone: (407) 658-6084
Fax: (407) 380-5227
Email: jexter@metters-orlando.com

Prof. Gopal Gaonkar

Prof. Mechanical Engineering
Florida Atlantic University
Phone: (561) 297-3417
Fax: (561) 297-2825
Email: gaonkar@fau.edu

Dr. Jerry Higman

Apache PMO, Chief, Aircraft Branch, TMD
U.S. Army Program Executive Office, Aviation
Phone: (256) 313-4191
Fax: (256) 313-4569
Email: jerry.higman@us.army.mil

Mr. Stephen Margetich

Engineer
The Boeing Company
Phone: (610) 591-2711
Fax: (610) 591-5636
Email: stephen.j.margetich@boeing.com

Dr. Robert McKillip

Sr. Associate
Continuum Dynamics, Inc.
Phone: (609) 538-0444
Fax: (609) 538-0464
Email: bob@continuum-dynamics.com

Mr. Brian Sill

Principle Software Engineer
L-3 Communications Link Simulation & Training
Phone: (817) 619-2753
Fax: (817) 619-2210
Email: besill@link.com

Mr. Matthew Smith

Sikorsky Aircraft Corp.
Phone: (203) 386-5723
Email: msmith@sikorsky.com

Mr. Daniel Spira

Technical Specialist, Flight Simulation Software
CAE Inc.
Phone: (514) 341-2000 ext. 6590
Email: daniel.spira@cae.com

Mr. Norman Suhs

Aerospace Engineer
U.S. Army Aviation Engineering Directorate
Phone: (256) 313-9030
Fax: (256) 842-9867
Email: norman.suhs@us.army.mil

Mr. Duc Tran

Vertical Motion Simulator Lab Manager
NASA Ames Research Center
Phone: (650) 604-5931
Email: Duc.T.Tran@nasa.gov

Dr. Hong Xin

Handling Qualities Lead Engineer
Sikorsky Aircraft Corporation
Ft Worth System Integration Center
Phone: (817) 377-7504
Email: hong.xin@sikorsky.com

Honorary Member**Prof. Gareth Padfield**

Chief Scientific Officer, Virtual Engineering Centre
The University of Liverpool
Phone: 44-151-749-4800 Ext. 4859
Fax: 44-151794-4848
Email: gareth.padfield@liverpool.ac.uk

OPERATIONS COMMITTEE: This committee works to enhance the effectiveness of civil and military vertical flight operations.

Chair**Mr. Charles Shepard**

Manager of Advanced Technology, Military Business
Development
Bell Helicopter Textron, Inc.
Phone: (817) 280-7409
Email: cmshepard@bellhelicopter.textron.com

Deputy Chair

Mr. Scott Swinsick

Operations Research Analyst
The Boeing Company Global Strike
Phone: (480) 891-8429
Fax: (480) 891-6542
Email: scott.swinsick@boeing.com

Session Chair

Mr. Malcolm Dinning

Deputy Director for Aviation
U.S. Army Office of the Assistant Secretary of the Army -
Research & Technology
Phone: (703) 617-0449
Email: malcolm.w.dinning.civ@mail.mil

Deputy Session Chair

Mr. John Barber

Program Manager
Bell Helicopter Textron, Inc.
Phone: (817) 280-5828
Email: jbarber@bellhelicopter.textron.com

Technical Council Liaison

Mr. John O'Neill

Chief of Experimental Aeromechanics
Sikorsky Aircraft Corporation
Phone: (203) 386-6883
Fax: (860) 998-5893
Email: joneill@sikorsky.com

Members

Mrs. Suzan DeRosa

S/V Manager
Sikorsky Aircraft Corporation
Phone: (203) 383-5858
Email: suzan.derosa@sikorsky.com

Mr. Keith Harper

Manager, Aviation Safety Operations
Sikorsky Aircraft Corporation
Phone: (203) 386-3229
Email: Kharper@Sikorsky.com

Mr. Allen Huber

Deputy Division Chief, Air Maneuver Battle Lab
U.S. Army United States Army Aviation Center of Excellence
Phone: (334) 255-3652
Fax: (334) 255-9789
Email: allen.huber@us.army.mil

Mr. Rupert Seals

Associate Technical Fellow
The Boeing Company
Phone: (610) 591-3092
Fax: (610) 591-5636
Email: rupert.l.seals@boeing.com

Mr. Steven Webster

AVX Aircraft Company
Phone: (817) 709-7576
Email: steve@avxaircraft.com

Mr. James Young

Branch Head/Program Manager
U.S. Navy Naval Air Systems Command
Phone: (301) 342-0157
Fax: (301) 342-8355
Email: james.c.young@navy.mil

PRODUCT SUPPORT SYSTEMS TECHNOLOGY

COMMITTEE: This Committee strives to influence the industry to implement product support enhancements by recognizing the diversity of requirements in new and existing fleets. It promotes compatible design concepts that will contribute to the operators' supportability, safety, and economy of operation.

Chair

Mr. Joseph Marciano

Tech Fellow - Reliability Engineering
Sikorsky Aircraft Corporation
Phone: (203) 386-4461
Fax: (860) 998-5849
Email: jmarciano@sikorsky.com

Deputy Chair

Mr. Steven Woolston

Director, Customer Support Technologies
Bell Helicopter Textron, Inc.
Phone: (817) 280-3553
Email: swoolston@bellhelicopter.textron.com

Session Chair

Mr. Ronald Walterick

Lead Aerospace Engineer
U.S. Army Research Development & Engineering Command
Phone: (361) 961-6477
Fax: (361) 961-3414
Email: ronald.walterick@us.army.mil

Deputy Session Chair

Mr. Treven Baker

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-0155
Fax: (757) 878-0007
Email: treven.e.baker.civ@mail.mil

Technical Council Liaison

Mr. John O'Neill

Chief of Experimental Aeromechanics
Sikorsky Aircraft Corporation
Phone: (203) 386-6883
Fax: (860) 998-5893
Email: joneill@sikorsky.com

Members

Mr. Rajendra Agrawal

Chief Engineer, Analytical Sys. Integration SME
Pratt & Whitney
Phone: (860) 565-9279
Email: rajendra.agrawal@pw.utc.com

Mr. Mike Callahan

Military Field Service Manager
GE Aviation GE Aviation
Phone: (480) 891-3750
Fax: (480) 981-0723
Email: mike.callahan@ge.com

Mr. Joe Eltman

Commercial Product Support Manager
Sikorsky Aircraft Corporation
Phone: (203) 383-7054
Fax: (860) 998-5026
Email: jeltman@sikorsky.com

Mr. Ty Genteman

Product Line Mgr.
Aviall
Phone: (972) 586-1585
Fax: (972) 586-1922
Email: tgenteman@aviall.com

Mr. John Guasto

Chinook Business Development Manager
The Boeing Company
Email: john.m.guasto@boeing.com

Mr. Philip Hensley

Mgr, Fleet Mgt Engineering
Sikorsky Aircraft Corporation
Phone: (203) 386-4440
Fax: (860) 998-5850
Email: phensley@sikorsky.com

Mr. Chris Merlenbach

Senior Project Engineer
The Boeing Company Apache Support
Phone: (480) 891-2562
Fax: (480) 891-2160
Email: chris.merlenbach@boeing.com

Mr. Kevin Rees

Chief, Maintenance Eng. Div.
U.S. Army Aviation & Missile Research, Development, &
Engineering Center
Phone: (361) 961-3830
Fax: (361) 961-3352
Email: kevin.rees@us.army.mil

Mr. Clayton Vance

Supv. Aerospace Engineer
U.S. Army Research Development & Engineering Command
Phone: (361) 961-4129
Fax: (361) 961-3352
Email: clayton.vance@us.army.mil

PROPULSION COMMITTEE: This Committee studies powerplant and power transmission design and criteria including their interaction, airframe interface, operational environment, related accessories and subsystems with primary emphasis on the disciplines of thermodynamics, internal aerodynamics, dynamics and drive-system technology.

Chair

Mr. Ryan Ehinger

Engr Specialist
Bell Helicopter Textron, Inc.
Phone: (817) 280-5172
Fax: (817) 278-5172
Email: rehinger@bellhelicopter.textron.com

Deputy Chair

Dr. Jerry Higman

Apache PMO, Chief, Aircraft Branch, TMD
U.S. Army Program Executive Office, Aviation
Phone: (256) 313-4191
Fax: (256) 313-4569
Email: jerry.higman@us.army.mil

Session Chair

Mr. Isaac Lopez

Deputy Project Manager for Subsonic Rotary Wing
NASA Glenn Research Center
Phone: (216) 433-5893
Fax: (216) 433-5100
Email: isaac.lopez@nasa.gov

Deputy Session Chair

Mr. Eric Sinusas

Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-1309
Fax: (817) 278-1309
Email: esinusas@bellhelicopter.textron.com

Safety TC Liaison

Prof. Terrell Hansen

Project Engineer
The Boeing Company
Phone: (480) 891-3855
Fax: (480) 891-6433
Email: terrell.w.hansen@boeing.com

Technical Council Liaison**Mr. Andrew Keith**

Chief Engineer Proposal Center of Excellence
Sikorsky Aircraft Corporation
Phone: (203) 386-7729
Email: akeith@sikorsky.com

Members**Mr. Rajendra Agrawal**

Chief Engineer, Analytical Sys. Integration SME
Pratt & Whitney
Phone: (860) 565-9279
Email: rajendra.agrawal@pw.utc.com

Mr. George Bobula

Chief Engineer, Propulsion
U.S. Army
Phone: (256) 313-9080
Fax: (256) 313-2370
Email: george.a.bobula@us.army.mil

Mr. Gary Butler

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-1448
Fax: (757) 787-0007
Email: gary.l.butler@us.army.mil

Dr. Hans DeSmidt

Assoc. Professor of Aerospace Engineering
University of Tennessee
Phone: (865) 966-1384
Email: hdesmidt@utk.edu

Mr. Mark Jeude

Chief, Tech Division, UH PMO
U.S. Army PEO Aviation
Phone: (256) 955-6742
Fax: (256) 313-3770
Email: mark.jeude@us.army.mil

Mr. Gary Kellogg

Lead General Engineer
U.S. Army Common Engines Project Office
Phone: (256) 313-9108
Fax: (256) 313-8271
Email: gary.kellogg@us.army.mil

Mr. Charles Kilmain

Director - Rotors and Drive System Design
Bell Helicopter Textron, Inc.
Phone: (817) 280-5889
Email: ckilmain@bellhelicopter.textron.com

Ms. Anastasia Kozup

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-2963
Email: anastasia.j.kozup.civ@mail.mil

Mr. Paul Madej

Technical Fellow-Propulsion Systems
Bell Helicopter Textron, Inc.
Phone: (817) 280-8442
Fax: (817) 278-8442
Email: pmadej@bellhelicopter.textron.com

Dr. Emmanuel Mermoz

head of Drive System DO
Eurocopter
Email: emmanuel.mermoz@eurocopter.com

Mr. Curtis Orkin

Engineering Manager / Sr. Design Engineer Specialist
Timken Timken Aerospace Transmissions
Phone: (860) 645-4363
Fax: (860) 649-0306
Email: curtis.orkin@timken.com

Mr. Dennis Powelson

Business Development Director - Military
Goodrich Corporation
Phone: (860) 830-1348
Email: dennis.powelson@pw.utc.com

Dr. Zihni Saribay

Postdoctoral Research Scholar
Pennsylvania State University
Phone: (814) 865-1986
Fax: (814) 865-7092
Email: zbs101@psu.edu

Mr. Michael Spratt

Chief Design Engineer, Helicopters
Rolls-Royce Corporation
Phone: (317) 230-4515
Email: michael.k.spratt@rolls-royce.com

Mr. Samuel Spring

GE3000 Technical Manager
General Electric GE Aircraft Engines
Phone: (781) 594-8545
Fax: (781) 594-0987
Email: samuel.spring@ge.com

Mr. Robert Stenberg

Business Development Director
Aerospace Filtration Systems, Inc, A Donaldson Company
Phone: (636) 300-5205
Email: rstenberg@afsfilters.com

Mr. William Storey

Principal Systems Engineer
Goodrich Corporation Engine Control Systems
Phone: (860) 523-2219
Fax: (860) 523-2288
Email: bill.storey@goodrich.com

Mr. John Woracek

SME for Advanced Technology
U.S. Army Propulsion
Phone: (256) 313-9141
Fax: (256) 313-2370
Email: woracekj@knology.net

SAFETY COMMITTEE: The safety committee studies the application and benefits of technology and operational procedures in order to negate the safety critical hazards to commercial, private and military rotorcraft in worldwide operations. Safety is considered both at the component reliability level and integrally at the level of the helicopter and its operations.

Chair (Ex-Officio)**Mr. Roy Fox**

Bell Helicopter Textron (Ret.)
Email: rgfox10@gmail.com

Deputy Chair**Mr. William Randall**

Chief of Flight Safety
Bell Helicopter Textron
Phone: (817) 280-3836
Email: wrandall@bellhelicopter.textron.com

Technical Council Liaison**Ms. Theodora Saunders**

Manager, System Engineering Process Group
Sikorsky Aircraft Corporation
Phone: (203) 386-6349
Fax: (860) 998-5473
Email: tsaunders@sikorsky.com

Members**Mr. Frederick Brisbois**

Co-Chair, U.S. Safety Implementation Team, IHST
Sikorsky Aircraft Corporation
Phone: (203) 386-3559
Fax: (860) 998-6886
Email: fbrisbois@sikorsky.com

Mr. Luigi Candiani

Accident / Incident Investigation (civil) Manager
Agusta
Phone: 39-033-171-1956
Fax: 39-033-122-9046
Email: luigi.candiani@agustawestland.com

Mr. Michael Clemmons

Senior Manager, Product Integrity
The Boeing Company
Phone: (610) 591-4950
Email: michael.g.clemmons@boeing.com

Ms. Lindsay Cunningham

Accident Investigator
American Eurocopter
Phone: (972) 641-0000
Email: lindsay.cunningham@eurocopterususa.com

Liaison to Aircraft Design**Dr. Arvind Sinha**

Director of Engineering
Australian Department of Defense
Phone: 61-39-256-3673
Fax: 61-39-256-1968
Email: arvind.sinha1@defence.gov.au

Liaison to Avionics & Systems**Mr. Allen Walker**

Electrical Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-2516
Fax: (757) 878-2053
Email: allen.d.walker@us.army.mil

Liaison to Crash Safety**Mr. Roy Fox**

Bell Helicopter Textron (Ret.)
Email: rgfox10@gmail.com

Liaison to Handling Qualities**Mr. Dean Carico**

Aerospace Engineer
U.S. Navy Naval Air Systems Command
Phone: (301) 342-1382
Fax: (301) 342-1340
Email: dean.carico@navy.mil

Liaison to HUMS**Mr. Michael Augustin**

President/Principal Investigator
IVHM Inc.
Email: Mike@IVHM-INC.com

Liaison to Modeling & Simulation**Dr. Geoffrey Jeram**

Aerospace Cavalryman
U.S. Army
Phone: (216) 407-0627
Email: jeram@carefreemaneuver.com

Liaison to Operations

Mr. Rickey Simmons

Flight Test Pilot
Federal Aviation Administration Rotorcraft Certification Office
Phone: (817) 222-5178
Fax: (817) 222-5783
Email: Rick.C.Simmons@faa.gov

Liaison to Propulsion

Mr. Mark Jeude

Chief, Tech Division, UH PMO
U.S. Army PEO Aviation
Phone: (256) 955-6742
Fax: (256) 313-3770
Email: mark.jeude@us.army.mil

Liaison to Test & Evaluation

Mr. Carl Ockier

Head of Flight Test Team EC145
Eurocopter Deutschland GmbH
Phone: 49-90-671-4894
Fax: 49-90-671-2027
Email: carl.ockier@eurocopter.com

University Liaison

Prof. Gareth Padfield

Chief Scientific Officer, Virtual Engineering Centre
The University of Liverpool
Phone: 44-151-749-4800 Ext. 4859
Fax: 44-151794-4848
Email: gareth.padfield@liverpool.ac.uk

STRUCTURES & MATERIALS COMMITTEE: This

Committee studies structures and structural research, analysis, and testing; design criteria and position loads; material and processing technology.

Chair

Dr. Jack Zhao

Chief Engineer
Pratt and Whitney
Phone: (860) 565-4795
Email: Jack.Zhao@pw.utc.com

Deputy Chair

Dr. Suresh Moon

Chief Engineer
L-3 Communications Air Vehicle Engineering
Phone: (301) 863-2209
Fax: (240) 725-0047
Email: suresh.moon@l-3com.com

Session Chair

Dr. Stephen Conlon

Research Associate
Pennsylvania State University Applied Research Laboratory
Phone: (814) 863-9894
Fax: (814) 863-5578
Email: scc135@arl.psu.edu

Deputy Session Chair

Mr. Jeffrey Schaff

Chief, Structural Methods
Sikorsky Aircraft Corporation
Phone: (203) 386-7423
Fax: (860) 998-5367
Email: jschaff@sikorsky.com

Technical Council Liaison

Mr. Robert Wardlaw

Tech Fellow Structures
Bell Helicopter Textron, Inc.
Phone: (817) 280-5914
Email: rwardlaw@bellhelicopter.textron.com

Members

Dr. Robert Benton

Lead Aerospace Engineer
U.S. Army Research Development & Engineering Command
Phone: (256) 313-9111
Email: robert.e.benton@us.army.mil

Mr. Richard Christ

Mechanical Structural Engineer
The Boeing Company
Phone: (480) 891-0225
Email: richard.a.christ@boeing.com

Mr. Christopher Cline

Structures Engineer
The Boeing Company
Phone: (610) 591-3302
Email: christophercline@comcast.net

Mr. Timothy Davis

Mechanical Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-3303
Fax: (757) 878-4330
Email: tim.davis3@us.army.mil

Dr. LeRoy Fitzwater

Engineer
The Boeing Company
Phone: (408) 608-4933
Email: leroy.m.fitzwater@boeing.com

Dr. Mark Gurvich

Technical Fellow
United Technologies Research Center
Phone: (860) 610-7459
Fax: (860) 660-1493
Email: gurvicmr@utrc.utc.com

Mr. James Hethcock

Staff Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-3107
Email: dhethcock@bellhelicopter.textron.com

Mr. Paul Keary

Chief, Structural Analysis
Kaman Aerospace Corporation
Phone: (860) 286-4126
Fax: (860) 243-7001
Email: paul.keary@kaman.com

Mr. Michael Kiser

Aerospace Engineer
U.S. Army Aviation & Missile Research, Development, &
Engineering Center
Phone: (256) 313-8423
Fax:
Email: michael.r.kiser@us.army.mil

Mr. Terry Larchuk

Engineer
The Boeing Company
Phone: (610) 591-3877
Fax: (610) 591-3186
Email: terry.j.larchuk@boeing.com

Dr. Jian Li

Associate Technical Fellow
The Boeing Company BDS
Phone: (480) 891-7183
Fax: (480) 891-7671
Email: jian.li@boeing.com

Dr. Xiaoming Li

Principal Engineer
Bell Helicopter Textron, Inc.
Phone: (817) 280-4235
Fax: (817) 278-4235
Email: xli@bellhelicopter.textron.com

Dr. Andrew Makeev

Associate Professor
University of Texas at Arlington Aerospace Engineering
Phone: (817) 272-3747
Email: makeev@uta.edu

Mr. Dhiren Marjadi

Director, Business Development
Altair Engineering, Inc.
Phone: (508) 330-3880
Fax: (508) 302-5346
Email: dkm@altair.com

Ms. Heidi Moore

Aerospace Engineer
U.S. Navy Naval Air Systems Command
Phone: (301) 342-2795
Fax: (301) 342-9404
Email: heidi.r.moore@navy.mil

Dr. Yuriy Nikishkov

Senior Research Engineer
University of Texas at Arlington
Phone: (817) 272-9449
Email: yuri@uta.edu

Dr. Mark Robeson

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-3029
Fax: (757) 878-4330
Email: mark.robesson@us.army.mil

Dr. John Romanski

Senior Structural Engineer
Piasecki Aircraft Corporation
Phone: (610) 521-5700 ext. 118
Fax: (610) 521-5935
Email: romanski_jw@piasecki.com

Mr. Jon Schuck

Aerospace Engineer
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-2101
Fax: (757) 878-4330
Email: jon.c.schuck@us.army.mil

Mr. Clyde Simmerman

Rotary Wing Team Lead, Strength and Fatigue
U.S. Navy
Phone: (301) 342-9339
Fax: (301) 342-9404
Email: clyde.simmerman@navy.mil

Dr. Arvind Sinha

Director of Engineering
Australian Department of Defense
Phone: 61-39-256-3673
Fax: 61-39-256-1968
Email: arvind.sinha1@defence.gov.au

SYSTEM ENGINEERING TOOLS/PROCESSES: This Committee seeks a better understanding or communication implementing Systems Engineering elements within the AHS International community. This includes management, application, processes, tools, or results which illustrate the precepts of Systems Engineering integration across AHS technical areas. Specific topics of interest can range from understanding and documenting of customer requirements and design, through manufacturing and field support.

Chair**Mr. James Garman**

System Engineering Manager
Sikorsky Aircraft Corporation
Phone: (203) 386-5510
Fax: (860) 998-6889
Email: jgarman@sikorsky.com

Session Chair

Ms. Oxana Fedak

System Engineer
The Boeing Company Helicopters
Phone: (610) 591-4870
Email: oxana.s.fedak@boeing.com

Deputy Session Chair

Dr. Loan Pham

Principle Engr
Sikorsky Aircraft Corporation
Phone: (203) 386-5508
Email: jpham@sikorsky.com

Technical Council Liaison

Ms. Theodora Saunders

Manager, System Engineering Process Group
Sikorsky Aircraft Corporation
Phone: (203) 386-6349
Fax: (860) 998-5473
Email: tsaunders@sikorsky.com

Members

Mr. John Adams

Director, Systems Engineering
Bell Helicopter Textron, Inc.
Phone: (817) 280-5664
Email: jqadams@bellhelicopter.textron.com

Dr. Thomas Christian

Chief Systems Engineering
U.S. Air Force
Phone: (937) 255-1826
Email: thomas.christian@afit.edu

Ms. Christine Collins

Systems Architect Director
Lockheed Martin Corporation Mission Systems & Sensors
Phone: (607) 751-4817
Fax: (607) 751-2008
Email: christine.collins@lmco.com

Mr. Michael Gaydar

Deputy Director, Development Planning SE
NAVAIR Naval Air Systems Command
Phone: (301) 757-5549
Email: michael.gaydar@navy.mil

Mr. Serge Germanetti

Avionics Senior Expert
Eurocopter
Phone: 33-612-629-616
Fax: 33-442-857-019
Email: serge.germanetti@eurocopter.com

Dr. Hans-Peter Hoffmann

Chief Systems Methodologist
IBM Rational Software
Phone: (949) 885-2435
Fax: (845) 463-8698
Email: hoffmape@us.ibm.com

Mr. Nicholas Isaacs

AgustaWestland
Email: nickisaacs@mac.com

Mr. Peter Kim

Systems Engineering Manager
The Boeing Company
Phone: (480) 891-1781
Fax: (480) 891-8512
Email: peter.k.kim@boeing.com

Mr. Bernard Lettington

Sr. Engineering Manager
Rockwell Collins
Phone: (319) 295-0305
Email: bhlettin@rockwellcollins.com

Mr. Douglas Limbaugh

CEO
Kutta Technologies, Inc.
Phone: (602) 896-1976
Fax: (602) 896-1007
Email: dlimbaugh@kuttatech.com

Mr. John McKeown

Consultant
Consultant
Phone: (540) 373-0911
Email: jcmckeown@verizon.net

Ms. Sue O'Brien

Acting Director Rotorcraft Center
Univ. of Alabama in Huntsville Huntsville
Phone: 256.824.6133
Fax: (256) 824-6971
Email: obriens@uah.edu

Mr. Bruce Oestreich

Director- Integrated Strategy for Boeing Military Aircraft
The Boeing Company
Phone: (610) 591-3410
Fax: (610) 591-8238
Email: bruce.d.oestreich@boeing.com

Mr. Bryan Pilati

Aerospace Engineer
US Army
Phone: (757) 878-5839
Email: bryan.pilati@us.army.mil

Prof. Daniel Schrage

Professor/Director CERT,CASE&IPLE Lab
Georgia Institute of Technology
Phone: (404) 894-6257
Fax: (404) 894-2760
Email: daniel.schrage@aerospace.gatech.edu

Dr. Stephen Skinner

Manager, Systems Engineering
Bell Helicopter Textron, Inc.
Phone: (817) 280-1311
Email: scskinner@bellhelicopter.textron.com

TEST & EVALUATION COMMITTEE: This Committee studies testing of all operational aspects, e.g., availability, survivability, economics, interdisciplinary tests and procedures for aircraft and components—small scale, full scale or simulation.

Chair**Mr. Carl Ockier**

Head of Flight Test Team EC145
Eurocopter Deutschland GmbH
Phone: 49-90-671-4894
Fax: 49-90-671-2027
Email: carl.ockier@eurocopter.com

Deputy Chair**Dr. Oliver Wong**

Research Scientist
US Army AFDD U.S. Army
Phone: (757) 864-9556
Fax: (757) 864-8192
Email: Oliver.D.Wong@nasa.gov

Session Chair**Dr. Jose Palacios**

Research Associate
Pennsylvania State University
Phone: (814) 867-2982
Email: jlp324@psu.edu

Deputy Session Chair**Mr. Jay Fletcher**

Aerospace Engineer
U.S. Army
Phone: (650) 604-1846
Fax: (650) 604-4000
Email: jay.fletcher@us.army.mil

Journal Liaison**Mr. Philip Alldridge**

Flight Test / ODA Lead
Sikorsky Aircraft Corporation Development Flight Center
Phone: (561) 775-5179
Fax: (860) 998-8506
Email: palldridge@sikorsky.com

Technical Council Liaison**Mr. John O'Neill**

Chief of Experimental Aeromechanics
Sikorsky Aircraft Corporation
Phone: (203) 386-6883
Fax: (860) 998-5893
Email: joneill@sikorsky.com

Members**Dr. Naipei Bi**

Aerospace Engineer
U.S. Navy Naval Surface Warfare Center, Carderock Division
Phone: (301) 227-4236
Fax: (301) 227-2584
Email: naipei.bi@navy.mil

Mr. Donald Byrne

V-22 Contractor Flight Test Director
The Boeing Company
Phone: (301) 757-0164
Fax: (301) 757-2046
Email: donald.byrne@navy.mil

Mr. Raymond Dagenhart

V-22 Lead Test Engineer
U.S. Navy Naval Air Warfare Center Aircraft Division
Phone: (301) 757-0280
Fax: (301) 757-2046
Email: raymond.dagenhart@navy.mil

Mr. Peter DeVito

Senior Experimental Aeromechanics Engineer
Sikorsky Aircraft Corporation
Phone: (203) 386-3041
Email: peter.devito@sikorsky.com

Mr. Joost F. Hakkaart

Department Manager Helicopters & Aeroacoustics
National Aerospace Laboratory NLR
Phone: +31 885113452
Email: joost.hakkaart@nlr.nl

Mr. Ed Lambert

Chief Engineer
Bell Helicopter Textron, Canada
Phone: (450) 971-6500 ext. 6750
Fax: (450) 437-0438
Email: elambert@bellhelicopter.textron.com

Mr. Tiziano Piazza

Program Manager NH90
Agusta Italy
Phone: 39-331-229-111
Fax: 39-331-229-605
Email: tiziano.piazza@agustawestland.com

Mr. Patrick Shinoda

Aerospace Engineer
NASA Ames Research Center Aeroflightdynamics Directorate
Phone: (650) 604-6732
Fax: (650) 604-5173
Email: pshinoda@mail.arc.nasa.gov

Mr. Rickey Simmons

Flight Test Pilot
Federal Aviation Administration Rotorcraft Certification Office
Phone: (817) 222-5178
Fax: (817) 222-5783
Email: Rick.C.Simmons@faa.gov

Dr. Paul Taylor

Technical Leader Aircraft Dynamics Rotary Wing
QinetiQ Rotary Wing Evaluation Services
Phone: 44-1980-664667
Fax: 44-1980-664289
Email: ptaylor6@Qinetiq.com

Dr. Berend van der Wall

Senior Scientist
German Aerospace Center (DLR) Institute of Flight Systems -
Helicopter
Phone: 49-531-295-2849
Fax: 49-531-295-2641
Email: berend.vanderwall@dlr.de

Mr. Ronald Walden

Rotary Wing Loads, Criteria & Dynamics
U.S. Navy Naval Air Systems Command
Phone: (301) 342-0285
Fax: (301) 342-9406
Email: ronald.walden@navy.mil

Prof. Norman Wereley

Professor
University of Maryland
Phone: (301) 405-1927
Fax: (301) 314-9001
Email: wereley@umd.edu

Mrs. Toni Wimmer

Flight Test Engineer
The Boeing Company
Phone: (480) 891-3776
Email: Toni.Wimmer@gmail.com

Mr. Leon Zmroczek

Manager-V-22 Technology & Test
The Boeing Company
Phone: (610) 591-5884
Fax: (610) 591-8022

Operability; Reliability and Robustness; Payloads, Sensors
and Data Links; Performance; and Survivability.

Chair**Mr. Igor Cherepinsky**

Flight Controls Engineer
Sikorsky Aircraft Corp.
Phone: (203) 386-3902
Email: icherepinsky@sikorsky.com

Deputy Chair**Mr. Ajay Sehgal**

Chief Engineer
Wyle Aerospace Group
Phone: (240) 298-0570
Email: ajay.sehgal@wyle.com

Session Chair**Dr. Harshad Sane**

Staff Engineer
Sikorsky Aircraft Corp.
Phone: (203) 386-8695
Fax: (860) 660-9786
Email: Harshad.Sane@sikorsky.com

Deputy Session Chair**Mr. Patrick Fabiani**

Director
ONERA
Phone: 33-5-62-252-561
Fax: 33-5-62-252-564
Email: patrick.fabiani@onera.fr

Technical Council Liaison**Mr. Dale Johnson**

Aerospace Engineer
U.S. Army Aviation Applied technology Directorate
Phone: (757) 878-0123
Fax: (757) 878-2053
Email: dale.l.johnson46.civ@mail.mil

Members**Mr. Jonathan Almond**

Guidance, Navigation and Control Engr
Northrop Grumman Corp. Unmanned Systems
Phone: (858) 618-7399
Email: jon.almond@ngc.com

Mr. Keith Arthur

Team Leader, Teaming & Intelligent Systems
U.S. Army Aviation Applied Technology Directorate
Phone: (757) 878-2772
Fax: (757) 878-0101
Email: keith.arthur@us.army.mil

UNMANNED VTOL AIRCRAFT & ROTORCRAFT

COMMITTEE: The committee seeks to focus on new
technologies for UAV systems with a balanced
consideration of five broad areas: Autonomy and

Prof. Inderjit Chopra
Professor
University of Maryland
Phone: (301) 405-1122
Fax: (301) 314-9001
Email: chopra@umd.edu

Mr. Joerg Dittrich
Research Scientist
German Aerospace Research Center (DLR)
Phone: 49-531-295-2670
Fax: 49-531-295-2647
Email: joerg.dittrich@dlr.de

Mr. Jerry Franke
Manager, Intelligent Autonomy Programs
Lockheed Martin Corporation
Phone: (856) 792-9723
Fax: (856) 792-9920
Email: jfranke@atl.lmco.com

Dr. Kingsley Fregene
Engineer
Lockheed Martin Corporation
Phone: (856) 792-9855
Email: kingsley.fregene@lmco.com

Mr. Mark Hardesty
Flight Test Director
The Boeing Company
Phone: (480) 891-1875
Fax: (480) 891-3765
Email: mark.hardesty@boeing.com

Prof. Jack Langelaan
Assistant Professor
Pennsylvania State University Aerospace Engineering
Phone: (814) 863-6817
Email: jwl16@psu.edu

Prof. J.V.R. Prasad
Professor
Georgia Institute of Technology
Phone: (404) 894-3043
Fax: (404) 894-2760
Email: jvr.prasad@aerospace.gatech.edu

Mr. Akira Sato
Professional Engineer
Churyo Engineering Co., Ltd.
Phone: 81-52-612-3536
Fax: 81-52-614-0046
Email: gba01736@nifty.com

Mr. Charles Shepard
Manager of Advanced Technology, Military Business
Development
Bell Helicopter Textron, Inc.
Phone: (817) 280-7409
Email: cmshepard@bellhelicopter.textron.com

Mr. Eric Silberg
Engineer
U.S. Navy Naval Surface Warfare Center, Carderock Division
Phone: (301) 227-1595
Fax: (301) 227-2584
Email: eric.silberg@navy.mil

Mr. Andrew Smith
Programs Manager-survivability Technologies
Rolls-Royce Corporation Libertyworks
Phone: (317) 230-8162
Email: andrew.smith@liberty.rolls-royce.com

Dr. Robert Szczerba
Lockheed Martin Senior Fellow
Lockheed Martin Corporation
Phone: (607) 751-3624
Fax: (607) 751-3163
Email: robert.j.szczerba@lmco.com

Mr. Clay Thomas
PX Factor
Phone: (202) 660-8665
Email: clay@pxfactor.com

Mr. Ronald Walden
Rotary Wing Loads, Criteria & Dynamics
U.S. Navy Naval Air Systems Command
Phone: (301) 342-0285
Fax: (301) 342-9406
Email: ronald.walden@navy.mil

Mr. Matthew Whalley
Engineer
U.S. Army Aeroflightdynamics Directorate
Phone: (650) 604-3505
Fax: (650) 604-4000
Email: matt.whalley@us.army.mil

Mr. Robert Williams
Aerospace Consultant
Directed Technology Inc.
Phone: (703) 244-0828
Fax: (703) 425-1130
Email: bob_williams1@verizon.net

Honorary

Mr. Cecil Richardson
Retired
Lockheed Martin Corporation (Ret.)
Email: cecilr@sccoast.net

Technical Committee Operating Guidelines

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.
Deputy Directors to initiate procedure for selection of new Technical Director (1996, 1998, 2000, etc.)
- 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:** Deadline for following year's Specialists' Meeting proposals.
Notify winners and losers of Lichten competition.
Consult with incoming Technical Director.
Prepare guideline revisions for discussion/adoption at May/June Board Meeting.
Prepare Report of the Technical Director for input in Board Book.
Issue notice of meeting of the Technical Council to be held during the Forum.
- 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.
 Attend Technical Council Meeting at Forum.
 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.

Table II

Position	Tenure	How Appointed	Reference
Technical Director	2 years	Appointed by President from candidates proposed by Technical Council	Bylaws & Guidelines Sect III, Para 7.a. (4)
Journal Editor	3 years	Appointed by Technical Director	Sect. I, Para 6
Deputy Director	1-2 years	Appointed by Technical Director	Guidelines Sect. I Para 7, Sect II Para 4.n.
Committee Chairs	1-2 years	Appointed by Deputy Director from 2 proposed by retiring Chair	Guidelines Sect. II Para 4.j.
Committee Member	2 years	Appointed by Committee Chair with concurrence of Deputy	Guidelines Sect. II Para 4.e.
Tech Session Chair	1 year	Appointed by Tech Committee Chair	Guideline Sect. II Para 4.1
Forum Tech Chair	1 year	Appointed by Technical Director	Guideline Sect. I Para 8
Tech Council Members	1 year	Appointed by Technical Director	Guideline Sect. I Para 5
Subcommittees	1 year	Proposed by anyone. Approved by Tech Director. Ratified by Board.	Guideline Sect. II Para 5.a.
Subcommittee Chair	1 year	Appointed by Committee Chairmen	Guideline Sect. II Para 5.e.
Subcommittee Members	1 year	Appointed by Committee or subcommittee Chairman	None

Table III

PORTION	MAINTAINED & REVISED BY	DISTRIBUTED TO
<p>Guidelines, Sect. I</p>	<p>Technical Director</p>	<p>Technical Director Forum Tech. Chairman Journal Editor Technical Council Committee Chairmen Committee Members</p>
<p>Guidelines, Sect. II</p>	<p>Deputy Technical Directors</p>	<p>As Section I</p>
<p>Guidelines, Sect. III <i>Tech. Director's Annual Checklist</i> <i>Dept. Tech Dir. Annual Checklist</i> <i>Nat'l Specialists' Meeting</i> <i>Proposal Procedure</i> <i>Specialists' Meeting Guidelines</i> <i>Journal Editor Annual Checklist</i> <i>Journal Manuscript Review</i> <i>Forum Tech. Chair Guidelines</i> <i>Requirements for Forum</i> <i>Presentations</i> <i>Lichten Award Procedure</i> <i>Nikolsky Lectureship Procedures</i> <i>Copyright Release</i></p>	<p>Technical Director Deputy Tech Director Technical Director</p> <p>Technical Director Journal Editor Journal Editor Forum Technical Chair Forum Technical Chair</p> <p>Technical Chairmen Technical Chairmen Executive Director</p>	<p>Incoming Tech. Director Incoming Deputy Dir. Committee Chairmen Regional VP's Specialists' Mtg. Chairs Incoming Journal Editor As Sect. I plus Authors Incoming Forum Chair All Authors & Speakers for Forum & Spec. Mtgs. Regional VP's Awards Committee As Sect. I</p>
<p>Guidelines, Sect. IV Past Office Holders</p>	<p>Technical Director</p>	<p>Technical Director Deputy Technical Director Forum Tech. Chairman Specialists Mtg. Chiars</p>

TECHNICAL COMMITTEE CHARTERS

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 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.

Aerodynamics Technical Committee Charter: Mission Statement—Drafted 3/9/99

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 system. 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 within 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 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 than 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.