AHS International
The Vertical Flight Technical Society
Marking 70 Years of Service to Vertical Flight

Forum
May 20-22, 2014
Montréal, Québec
Canada

Celebrating International Cooperation in Vertical Flight Technology

Registration Kit

www.vtol.org/forum

Current Forum 70 Sponsors

AIRBUS HELICOPTERS
LORD
BOEING
CAE
AUTOMATED DYNAMICS
Pratt & Whitney Canada
SAFRAN
Tencate
YOU'RE INVITED ... TO FORUM 70!

Don't miss our 70th Annual Forum and Technology Display!

For 70 years, the AHS Forum has been the premier event for government, industry and academia to exchange ideas, discuss the latest breakthroughs in theory and technology, and work together to tackle the toughest challenges in vertical flight. Since its inception, the Annual Forum has brought together the best technical minds with the world’s leading vertical flight developers. This tradition and legacy is still unmatched today by any other event in the world.

AHS International’s 70th Annual Forum and Technology Display will be held May 20-22, 2014 at the Palais des congrès de Montréal in Montréal, Québec. This year’s theme is “Celebrating International Cooperation in Vertical Flight Technology” as we look at the productive partnerships both within North America and with industry, academia and governments around the world. With some 1200 attendees annually, Forum 70 offers you networking opportunities with leading researchers and the key representatives from the world’s most important vertical flight technology organizations in industry, academia and government.

A full day of activities precedes the Forum on Monday, May 19. This year, AHS features two short courses, taught by industry experts: “The Aerodynamics of Helicopter Accidents,” presented by Jack Cress, and “Rotorcraft Technology,” presented by Dr. Dick Bennett. Alternatively, Monday morning also includes industry tours of Bell Helicopter Canada and CAE. Finally, the 2nd Annual Micro Air Vehicle Student Challenge will see AHS student members compete in a head-to-head MAV fly-off for up to $10,000 in prizes.

Forum 70 will be the biggest ever, featuring some 300 technical presentations on vertical flight research and advanced technology initiatives, in disciplines from acoustics to wind energy. The Forum also includes special panel sessions, the Exhibitor Reception, the Vertical Flight Foundation (VFF) Reception, the Grand Awards Banquet, and the Technology Display – the most extensive exposition of cutting-edge vertical flight technologies in the world.

Forum 70 will continue with its interactive CEO Panel with the chief executives of the international helicopter industry. Moderated by Kenneth Swartz – an award-winning communicator and contributing editor at Canada’s Vertical, Vertical 911 and Canadian Skies magazines – the panel will explore how to enhance continued “International Cooperation in Vertical Flight Technology.”

The CEO Panel will be followed by this year’s esteemed Alexander A. Nikolsky Honorary Lecture, delivered by Prof. Dewey H. Hodges, Georgia Institute of Technology. The title of his lecture is “Unified Approach for Accurate and Efficient Modeling of Composite Rotor Blade Dynamics.”

In keeping with our long tradition, the US Navy and US Army Program Executive Officers (PEOs) for rotorcraft acquisition and their program managers will brief attendees on the latest developments and plans for modernization. Brigadier General Robert Marion, Army PEO for Aviation, will lead the US Army program manager briefings, and Rear Admiral Cindy “CJ” Jaynes, Navy PEO for Air ASW, Assault & Special Mission Programs, will moderate the US Navy/Marine Corps program manager panel. These sessions have always been found to be extremely insightful regarding future US military rotorcraft development needs.

In addition, two special session panels this year spotlight Canada’s vertical flight capabilities and opportunities. The Suppliers and Subsystems Technology Panel features leaders in the Québec rotorcraft industry. Canadian Rotorcraft: From Research to Operations features leaders from Canadian agencies and associations covering rotorcraft. Québec represents 70% of Canada’s aerospace R&D spending, produces more than $12 billion in sales annually, 80% from exports. Collectively, Québec’s aerospace community is comprised of 200+ firms employing more than 42,500 engineers, technicians and other skilled aerospace workers.

Please join us May 20-22, 2014 in Montréal, Québec. You don’t want to miss The Biggest and Best Vertical Flight Technology Conference in the World!

Very sincerely,

Michael J. Hirschberg
AHS Executive Director
AHS gratefully thanks the following companies for their generous support of the AHS 70th Annual Forum and Technology Display.

**FORUM 70 Sponsors**

- Airbus Helicopters
  Registration Bags
- Boeing Company
  Exhibit Hall Luncheons
- Pratt & Whitney Canada
  Badge Holders
- AVX Aircraft
  Hotel Key Card
- CAE, Inc.
  Technical Session Refreshment Break
- Safran USA
  General Session Refreshment Break
- Automated Dynamics
  Technical Session Refreshment Break
- Sikorsky Aircraft
  Exhibitor/Industry Reception
- Bell Helicopter Textron
  Vertical Flight Foundation Reception & The Grand Awards Banquet
- TenCate
  Technical Session Refreshment Break

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**Schedule of Events**

All events will take place at the Palais des congrès de Montréal unless otherwise noted.

**Sunday, May 18, 2014**

- **Exhibitor Move-In**
  9:00 a.m. – 5:00 p.m.
  Exhibit Halls 210, 220A and 230 (Exhibitors Only)

- **Exhibitor Registration Open**
  9:00 a.m. – 5:00 p.m.
  Lobby

- **Attendee Registration Open**
  2:00 p.m. – 5:00 p.m.
  Lobby

**Monday, May 19, 2014**

- **Show Office**
  6:00 a.m. – 5:00 p.m.

- **Student Volunteer Office**
  6:00 a.m. – 5:00 p.m.

- **Registration Open**
  (Exhibitors and Registrants)
  7:00 a.m. – 5:00 p.m.
  Lobby

- **Speaker Ready Room**
  7:00 a.m. – 5:00 p.m.

- **Exhibitor Move-In**
  8:00 a.m. – 5:30 p.m.
  Exhibit Halls 210, 220A and 230 (Exhibitors Only)

- **AHS Technical Council Meeting**
  8:00 a.m. – 12 noon

- **Rotorcraft Technology Short Course**
  Presented by Dr. Richard (Dick) Bennett
  9:00 a.m. – 4:00 p.m.

- **Short Course on Aerodynamics of Helicopter Accidents**
  Presented by John (Jack) Cress
  9:00 a.m. – 4:00 p.m.

- **Journal Editor’s Meeting**
  12 noon – 1:30 p.m.

- **Session Chair Meeting**
  1:30 p.m. – 2:30 p.m.

**Tuesday, May 20, 2014**

- **Student Volunteer Meeting**
  2:30 p.m. – 4:00 p.m.

- **MAV Student Challenge**
  4:00 p.m. – 6:00 p.m.

- **Show Office**
  6:00 a.m. – 5:00 p.m.

- **Student Volunteer Office**
  6:00 a.m. – 5:00 p.m.

- **Registration Open**
  (Exhibitors and Registrants)
  7:00 a.m. – 5:00 p.m.
  Lobby

- **Speaker Ready Room**
  7:00 a.m. – 5:00 p.m.

- **Special Session**
  **US Army Aviation Program Manager Briefings**
  Moderated by Brigadier General Robert Marion, Army PEO for Aviation
  8:00 a.m. – 12 noon

- **Technical Session A**
  8:00 a.m. – 12 noon
  - Aerodynamics I
  - Dynamics I
  - Handling Qualities I
  - Manufacturing Technology & Processing I
  - Operations I
  - Product Support Systems Technology
  - Test & Evaluation I
  - Wind Energy I

- **Technical Session A Refreshment Break**
  9:30 a.m. – 10:00 a.m.

- **Exhibit Hall Open**
  11:00 a.m. – 7:00 p.m.
  Exhibit Halls 210, 220A and 230

- **Exhibit Hall Luncheon**
  12 noon – 1:30 p.m.

**Sponsored by The Boeing Company**
Tuesday, May 20, 2014 (Cont.)

Opening General Session
1:30 p.m. – 3:30 p.m

Welcome

Keynote Address

CEO Panel
“International Cooperation in Vertical Flight Technology”
Moderated by Kenneth Swartz, contributing editor at Canada’s Vertical, Vertical 911 and Canadian Skies magazines

Refreshment Break
3:30 p.m. – 4:00 p.m.
Sponsored by Safran/Turbomeca Canada

Alexander A. Nikolsky
Honorary Lectureship
4:00 p.m. – 5:00 p.m.
Prof. Prof. Dewey Hodges, Georgia Institute of Technology, "Unified Approach for Accurate and Efficient Modeling of Composite Rotor Blade Dynamics"

Exhibitor/Industry Reception
5:00 p.m. – 7:00 p.m.
Sponsored by Sikorsky Aircraft Corp.

Wednesday, May 21, 2014

Show Office
6:00 a.m. – 5:00 p.m.

Student Volunteer Office
6:00 a.m. – 5:00 p.m.

Registration Open
7:00 a.m. – 5:30 p.m.
(Exhibitors and Registrants)

Lobby

Speaker Ready Room
7:00 a.m. – 5:00 p.m.

Special Session
US Navy/Marine Corps Aviation Program Manager Briefings
Moderated by Rear Admiral Cindy “CJ” Jaynes, Navy PEO for Air ASW, Assault & Special Mission Programs

Technical Session B
8:00 a.m. – 12:15 p.m.
Acoustics I
Joint Aerodynamics/Dynamics
Crew Stations & Human Factors
Handling Qualities II
HUMS/CBM I
Modeling & Simulation I
Structures & Materials I
Unmanned VTOL Aircraft & Rotorcraft I

Technical Session B Coffee Break
9:30 a.m. – 10:15 a.m.

Exhibit Hall Open
9:00 a.m. – 5:00 p.m.

AHS Board of Directors Meeting
9:00 a.m. – 12 noon

Exhibit Hall Luncheon
12:15 p.m. – 1:45 p.m.
Sponsored by The Boeing Company

Thursday, May 22, 2014

Show Office
6:00 a.m. – 5:00 p.m.

Student Volunteer Office
6:00 a.m. – 5:00 p.m.

Registration Open
7:30 a.m. – 1:00 p.m.

Lobby

Tech Committee Chair/Session Chair Meeting
7:30 a.m. – 9:00 a.m.

Special Session:
Canadian Rotorcraft: From Research to Operations
8:00 a.m. – 12:15 p.m.

Technical Session D
8:00 a.m. – 12:15 p.m.
Advanced Vertical Flight I
Aerodynamics II
Aircraft Design I
Awards Presentations (1/2)/Manufacturing Technology & Processing II (1/2)
History
Modeling & Simulation III
Propulsion I
Structures & Materials II

Technical Session D Refreshment Break
9:30 a.m. – 10:15 a.m.

Exhibit Hall
9:00 a.m. – 12:00 noon
Thursday, May 22, 2014 (Cont.)

Technical Session E  1:30 p.m. – 6:00 p.m.
Advanced Vertical Flight II
Aerodynamics III
Aircraft Design II
Dynamics III (1/2)/Wind Energy II (1/2)
HUMS/CBM III
Propulsion II
Test & Evaluation III
Unmanned VTOL Aircraft & Rotorcraft II

Technical Session E Refreshment Break  3:30 p.m. – 4:00 p.m.

General Information

Passport and Visa Information
Please visit www.vtol.org/forum-travel for Canadian travel requirements.

All Forum 70 attendees must register to receive a badge. Badges must be visibly displayed to gain admittance to both the Exhibit Hall and the technical sessions. FULL THREE-DAY REGISTRATION includes:

- Admittance to all sessions and coffee breaks
- Entry to the Exhibit Hall during scheduled hours
- Tickets to Luncheons, the Exhibitor/Industry Reception, Vertical Flight Foundation Reception and Grand Awards Banquet
- Forum 70 Proceedings CD-ROM

Registration Hours
Sunday, May 18, 2014  2:00 p.m. – 5:00 p.m.
Monday, May 19, 2014  7:00 a.m. – 5:00 p.m.
Tuesday, May 20, 2014  7:00 a.m. – 5:00 p.m.
Wednesday, May 21, 2014  7:00 a.m. – 5:30 p.m.
Thursday, May 22, 2014  7:00 a.m. – 1:00 p.m.

Forum 70 Proceedings
Proceedings will be available in two formats – printed or the CD-ROM version – and contain all papers presented at the technical sessions. Printed Proceedings will not be available until after the Forum.

Registration Fees

<table>
<thead>
<tr>
<th></th>
<th>(member / non-member)</th>
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<tr>
<td></td>
<td>Three Days (by April 16th)</td>
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<tr>
<td>Regular Attendee</td>
<td>$765 / $865</td>
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<tr>
<td>Speaker or Gov’t Employee</td>
<td>$715 / $815</td>
</tr>
<tr>
<td>Accompanying Spouse</td>
<td>$200</td>
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All attendees registering at the non-member rate will be given a complimentary 1-year membership in AHS International.

What registration includes:

- Admittance to all technical and special sessions and entry to the Exhibit Hall during scheduled hours
- Tickets to luncheon(s) and access to all refreshment breaks
- Tickets to the Vertical Flight Foundation Reception and the Grand Awards Banquet
- Forum 70 Proceedings CD-ROM (3 Day Registrants Only! $89 for all other attendees.)
- Discounted attendance at the Short Courses

How to register:

- If you are an AHS member, go to www.vtol.org/my-AHS. Log in and click the link for Forum 70 Online registration under “Register online for upcoming meetings and events!” As a way of saying thanks to our loyal members, and to help celebrate 70 years of being the world’s premier professional vertical flight technical society, we’re offering special registration discounts at this year’s Forum. Log in to My AHS to get your individual coupon code and a 5% discount for every 5 years of membership. Been a member for 20 years? You’ll get 20% off! The discount applies only to online registration.
- If you are not an AHS member, you may register online by visiting our membership portal https://ahs.portal.daxko.com. Select the link for “Forum 70” under “Register for Featured Events.” If you have previously registered on this website, log in with your existing Login ID and Password. Those who register at the non-member rate receive a complimentary 1-year membership in AHS.
- You can also download the printable registration form at www.vtol.org/forum and fax it to AHS at +1-703-739-9279, ATTN: Holly Cafferelli or email it to Holly at hcafferelli@vtol.org.
- Should you have any questions about registration, please contact Holly Cafferelli (+1-703-684-6777 x100 or hcafferelli@vtol.org).
- Exhibitors have a separate registration site. If you have already applied for exhibit space and wish to register booth personnel, the link for this site will be sent to you by your booth’s point of contact. For further information, please contact Liz Malleck (+1-703-684-6777 x107). Speakers may not register as exhibitors.
The CD-ROM is complimentary for all Full Three-Day Registrants! Other registrants may purchase it onsite at the reduced rate of $205.00.

Publication Bins
Publication bins will be located in the registration area stocked with the May/June 2014 issue of Vertiflite and industry relevant periodicals and literature.

Speaker Ready Room
Speakers may organize and review their presentations in the Speaker Ready Room. Hours are from 7:00 a.m. – 5:00 p.m. on Monday, Tuesday, and Wednesday and from 7:00 a.m. – 3:00 p.m. on Thursday.

AHS Novelty Desk
AHS publications, shirts, hats, mugs, key chains, golf balls and other new novelty items will be available for purchase at the Novelty Desk located in the AHS Registration area.

Technology Display
Be sure to allocate ample time to visit the Forum 70 Technology Display in the Exhibit Hall. Scores of companies and organizations will be presenting the latest developments in vertical flight technology and showing the advancements in airframe, propulsion, avionics, systems integration, simulation technology and much more.

To maximize the opportunity to view exhibits, the Exhibit Hall Technical Briefings and social events such as lunches on Tuesday and Wednesday and the Exhibitor/Industry Reception are held in the Exhibit Hall. The technology display is open to registrants. AHS reserves the right to make modest changes to the Exhibit Hall hours without advance notification to exhibitors or registrants.

Exhibit Hall Hours and Events

**Tuesday, May 20, 2014**
- **Exhibit Hall Open**: 11:00 a.m. – 7:00 p.m.
- **Exhibit Hall Luncheon**: 12 noon – 1:30 p.m.
- **Exhibitor/Industry Reception**: 5:00 p.m. – 7:00 p.m.

**Wednesday, May 21, 2014**
- **Exhibit Hall Open**: 9:00 a.m. – 5:00 p.m.
- **Refreshment Break**: 9:30 a.m. – 10:15 a.m.
- **Exhibit Hall Luncheon**: 12:15 p.m. – 1:45 p.m.
- **Refreshment Break**: 3:15 p.m. – 4:00 p.m.

**Thursday, May 22, 2014**
- **Exhibit Hall Open**: 9:00 a.m. – 12:00 noon
- **Refreshment Break**: 9:30 a.m. – 10:15 a.m.

Exhibitor/Industry Reception
**Tuesday, May 20, 2014**
12 noon – 1:30 p.m.
Exhibit Halls 210, 220A and 230
All exhibitors and Forum 70 attendees registered for Tuesday will automatically receive tickets to this event.

Vertical Flight Foundation (VFF) Reception and Grand Awards Banquet
**Wednesday, May 21, 2014**
The VFF Reception will be held 6:00 p.m. – 7:00 p.m. and the Grand Awards Banquet 7:00 p.m. – 9:30 p.m. Distinguished guests from government agencies and military branches, as well as the international vertical flight industry, will be among the attendees. This exciting event will honor distinguished award recipients for their achievements. Attendees will enjoy an excellent dinner and entertainment. Full registration includes a ticket to this event; all others must purchase tickets in advance. The event is business attire and military uniforms.

Exhibit Hall Luncheons
**Tuesday, May 20, 2014**
12 noon – 1:30 p.m.
**Wednesday, May 21, 2014**
12:15 p.m. – 1:45 p.m.

Hotel Reservations
AHS International has negotiated exceptional rates with several hotels in Montréal.

ALL ROOM RESERVATIONS MUST BE MADE ONLINE AT www.vtol.org/forum-hotel – PLEASE DO NOT CONTACT HOTEL DIRECTLY. Please book through this link as it defrays the cost of Forum 70, keeping your costs to a minimum.

To receive a discounted Forum 70 room rate, you must confirm guest room reservations by April 16, 2014. After April 16, Forum 70 room reservations will be confirmed on a space-available basis at the prevailing room rate. All reservations must be guaranteed by a major credit card. Guest room rates are posted in Canadian dollars. Please read and make note of hotel cancellation policies before confirming a reservation.

**NOTE:** if you are eligible to receive a U.S. federal government per diem rate, a federal government photo I.D. is required upon check-in to verify eligibility.
Forum 70 Exhibits

The Forum 70 Technology Display plays an essential role in advancing vertical flight technology by bringing together the industry’s most creative minds and visionaries with the world’s leading aerospace manufacturers and suppliers. Your company can be part of this dynamic technology showcase by joining AHS as a Forum 70 exhibitor. For more information, please contact David Renzi at AHS Headquarters (see below).

Exhibit Package Includes:

- Quality backdrop draping and divider rails.
- Booth identification sign
- Company listing in the Forum 70 Final Program
- Complimentary guest passes for distribution to your customers.
- 24-hour security in the Exhibit Hall
- One Forum 70 “FULL” registration package* for each 10’ X 10’ space purchased (limited to a maximum of five badges). Badges provide access to technical sessions, exhibit hall lunches and receptions, the AHS Vertical Flight Foundation Reception and the Grand Awards Banquet.
- Two exhibitor badges for each 10’ X 10’ unit of display space (not to exceed a maximum of ten badges). This badge provides access to the exhibit hall during scheduled hours and includes exhibitor lunches and receptions.

* The Society requests that full registration badges be issued only to personnel manning exhibit booths and not to AHS Forum speakers.

Showcasing the Most Advanced Vertical Flight Technology:

Airframes • Avionics and Sensors • Components • Design Capabilities
• Display Systems • Electro-optics • Engine/Propulsion • Fabricators • Fuel and Utility Systems (FUS) • Health and Usage Monitoring Systems (HUMS) • Mission Support • Research and Development • Safety Systems • Simulation and Training • UAVs

Exhibitor Rates

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<tr>
<th>Exhibition Category</th>
<th>Rate</th>
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<tbody>
<tr>
<td>AHS Corporate Member</td>
<td>$2,650 for each 10’ X 10’ Unit</td>
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<tr>
<td>Non-Corporate Member</td>
<td>$2,750 for each 10’ X 10’ Unit</td>
</tr>
<tr>
<td>Educational Member</td>
<td>$1,950 for each 10’ X 10’ Unit</td>
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</tbody>
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For exhibit information contact:

AHS International
The Vertical Flight Technical Society
217 N. Washington Street
Alexandria, VA 22314-2538 USA
Phone: 1-703-684-6777
Toll Free: 1-855-AHS-INTL
Fax: 1-703-739-9279
Email: AHSExhibits@vtol.org
Web Site: www.vtol.org

Gain access to a leading helicopter manufacturing market.

Exhibiting at Forum 70 will introduce your company to the world’s second-ranked aerospace industry center measured in terms of jobs per capita. Located in the Province of Québec, the region represents 70% of Canada’s aerospace R&D spending. The Québec aerospace industry produces more than $12 billion in sales annually, 80% from exports. Collectively, Québec’s aerospace community is comprised of 200+ firms employing more than 42,500 engineers, technicians and other skilled aerospace workers. 98% of these workers are concentrated in greater Montréal.

Leading Vertical Lift Technology and Aerospace Corporations located in the region:

- Bell Helicopter Textron
- CAE
- Safran/Messier-Dowty Inc.
- Pratt & Whitney Canada
- Thales Avionics
- Esterline CMC Electronics
- Héroux-Devtek
- Bombardier Aerospace
AHS FORUM 70 Exhibitors - as of 2/24/2014

Palais des congrès de Montréal
Exhibit Hall 210, 220A & 230
(as of 2/24/14)

Lunch Area

Exhibitor ................................................. Booth #

Advanced Rotorcraft Technology, Inc.  617
Advanced Torque Products LLC.  903
Advanced Turbine Engine Company (ATEC)  427
AIAA .................................................. 426
Airbus Helicopters  915
Alcoa Fastening Systems  212
Altair Engineering, Inc.  217
Applied Composites Engineering (ACE)  810
Armofy of Connecticut, Inc.  811
Aurora Flight Sciences  213
Automated Dynamics  623
Avion Solutions, Inc.  112
AVIOR Integrated Products  1010
BAE Systems  214
Bell Helicopter Textron, Inc.  703
Boeing Company  403
CAE .............................................. 226
CD-adapco  515
Cobham ......................................... 412
Continuum Dynamics, Inc.  314
Eagle Technologies LLC  117
East/West Industries, Inc.  414
Esterline CMC Electronics  312
Fatigue Technology, Inc.  910
Flight Light Inc.  711
GARMIN USA  914
GasTOPS Ltd.  627
GE Aviation  116

Exhibitor ................................................. Booth #

Georgia Institute of Technology  1007
Hutchinson Aerospace  815
ITT Endine, Inc.  415
Kamatico RWG  909
Karem Aircraft, Inc.  603
Lord Corporation  611
MDS Coating Technologies Corporation  315
MicroTek Finishing, LLC  614
NSE Automatic  905
Penn State University  220
Placetcoc Inc.  911
Pratt & Whitney Canada  321
QuesTek Innovations LLC  625
REM Surface Engineering  1008
RF System Lab  327
Rotor & Wing Magazine  120
Rotorcraft Operations Ltd.  1013
RTI International Metals, Inc.  227
Saab Defense and Security ISA  527
Sentient Corporation  303
Shimco North America  127
Sikorsky Aircraft Corporation  103
TenCate Advanced Composites  722
Triumph Aerospace Systems - Newport News  311
University of Maryland  724
University of South Carolina (CBM)  921
UTC Aerospace Systems  221
West Coast Industries  514
EXHIBIT SPACE APPLICATION AND CONTRACT

FORUM 70

AHS International 70th Annual Forum and Technology Display
Palais des congrès de Montréal ♦ Montréal, Québec
May 20-22, 2014

<table>
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<tr>
<td>Exhibiting Company:</td>
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<tr>
<td>Contact: ____________________________ Title: ____________________________</td>
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<td>Address: ____________________________________________________________</td>
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<td>Booth Preference: 1st Choice ______________ 2nd Choice ______________ 3rd Choice ______________</td>
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<tr>
<td>Early Bird Exhibit Rates (On or Before November 30, 2013)</td>
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<tr>
<td>AHS Corporate Member $2,550 per 10'x10' Unit</td>
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<tr>
<td>Non-Corporate Member $2,650 per 10'x10' Unit</td>
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<tr>
<td>Education Member $1,850 per 10'x10' Unit</td>
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<tr>
<td>Regular Exhibit Rates (After November 30, 2013)</td>
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<td>AHS Corporate Member $2,650 per 10'x10' Unit</td>
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<tr>
<td>Education Member $1,950 per 10'x10' Unit</td>
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<tr>
<td>List Companies you wish to be near: ____________________________________________________________</td>
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<tr>
<th>Payment Information</th>
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<td>Early Bird Payment due November 30, 2013</td>
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<tr>
<td>Regular Rate due December 1, 2013</td>
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<tr>
<td>Make Checks Payable to: AHS International</td>
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<tr>
<td>217 N. Washington Street ♦ Alexandria, VA 22314</td>
</tr>
<tr>
<td>Tel: 703-684-6777 ♦ Fax: 703-739-9279 ♦ Email: <a href="mailto:AHSExhibits@vtol.org">AHSExhibits@vtol.org</a></td>
</tr>
<tr>
<td>Credit Card Payment: Visa MasterCard American Express</td>
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<tr>
<td>Card Number: ____________________________________________ Amount: $ ____________________________</td>
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<td>Expiration Date: ____________________________ Name on Card: ____________________________</td>
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<tr>
<td>Card Signature: ___________________________________________________________________________</td>
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</tbody>
</table>

This application shall become a contract only upon acceptance by AHS. If accepted, the undersigned agrees to abide with terms and conditions described in the Forum 70 Exhibitor Prospectus, Exposition Rules and Registration Manual. This writing embodies the complete agreement between the undersigned and AHS, unless modified by written consent of both parties.

Exhibitor Signature: ____________________________ Date: ____________________________
AHS Signature: ____________________________ Booth: ____________ Size: ____________ Date: ____________________________
FORUM 70 EXPOSITION RULES

1. SPACE RESERVATION

FORUM 70 exhibit space will be allocated on a first-come, first-served basis. Space requests will be accepted via mail, facsimile, and onsite at Forum 69. AHS International will make every effort to locate exhibits in accordance with exhibitor’s space preferences. AHS International reserves the right to assign exhibit space subject to such parameters as booth space size, design and relationship to similar exhibits. AHS International retains the exclusive right to revise the exhibition hall floor plan and/or move assigned exhibitors as necessary.

2. SUBLEASING OF SPACE

Exhibitor may not sublet exhibit space, nor any part thereof, nor exhibit, offer for sale, or advertise articles not manufactured or sold by the exhibiting company, except where such articles are necessary for proper demonstration or operation of the exhibitor’s display.

3. EXHIBIT SPACE PAYMENT

A signed exhibit application and contract with payment must be received on or before November 30, 2013 to qualify for the “Early Bird Exhibit Rate.” A signed exhibit application and contract with payment received after December 1, 2013 will qualify for the Regular Exhibit Rate.” Unpaid exhibit space may be released on January 1, 2014 and made available for resale.

4. CANCELLATION BY EXHIBITOR

Exhibitors may reduce or cancel exhibit space by submitting written notice to AHS no later than December 31, 2013. If an exhibitor cancels exhibit space, AHS will charge an administrative fee of fifteen percent (15%) of the total display space cost up until December 31, 2013. No refunds will be made by AHS if the written cancellation notice is received at AHS Headquarters after December 31, 2013. All exhibit applications become a binding contract upon acceptance by AHS, including applications received without payment. An exhibitor is obligated to pay the fifteen percent (15%) administrative fee if exhibit space is canceled before December 31, 2013. After December 31, 2013 the exhibiting company is obligated to pay a 100% administration fee and payment is due within 30 days from receipt of a cancellation invoice or five (5) business days prior to move-in of the show or which ever is soonest.

5. OCCUPANCY DEFAULT

Any exhibitor failing to occupy exhibit space shall not be relieved of the obligation of paying the full rental charge of such space. If not occupied by the time set for completion of the installation of the displays, such space shall be taken by AHS International, and re-located or reassigned for such purposes or use as AHS International may see fit.

6. CERTIFICATE OF INSURANCE

Upon signing the Exhibit Space Application and Contract, the exhibiting firm is asked to provide the AHS with a certificate of insurance or an affidavit that it carries $500,000 in liability insurance applicable to its exhibiting at the AHS 70th Annual Forum and Technology Display by March 29, 2014

7. AGREEMENT TO RULES

An Exhibit Space Application and Contract signed by both the AHS and exhibitor representative, constitutes the complete agreement for the right to use the allocated space. AHS is not liable for resultant expenses or loss of revenue in the event that fire, flood, earthquake, strike, labor disorders, or other circumstances beyond the control of AHS prevent the use of the exhibitors' space inside the exhibit hall. The exhibitor, by accepting the allocated space, agrees to the terms and conditions and exhibit hall hours contained in this Exhibitor Prospectus, Forum regulations and subsequent bulletins. Any violation of AHS terms and conditions shall constitute a breach of this contract. AHS's remedy to any breach includes, but is not limited to, termination of any and all rights to the exhibit space assigned by AHS and the forfeiture of any fees paid.
AHS International offers its sincere thanks to the Forum 70 Chairs:

Prof. Marilyn J. Smith, Georgia Institute of Technology – Forum Technical Chair
MMe. Blanche Demaret, ONERA – Deputy Forum Technical Chair
Dr. Marc Gervais, Airbus Helicopters – Acoustics Session Chair
Dr. Charles Tinney, The University of Texas at Austin – Acoustics Session Deputy Chair
Kit Borden, U.S. Army – Advanced Vertical Flight Session Chair
Michael Strauss, Sikorsky Aircraft Corporation – Advanced Vertical Flight Session Deputy Chair
Mark Potsdam, U.S. Army – Aerodynamics Session Chair
Edward Reed, Sikorsky Aircraft Corp. – Aerodynamics Session Deputy Chair
Dennis McGuire, Lord Corporation – Aircraft Design Session Chair
Dr. Richard Markiewicz, Defence Science and Technology Laboratory (DSTL) – Aircraft Design Session Deputy Chair
Dr. Melvin Johnson, U.S. Army Aviation Engineering Directorate – Avionics and Systems Session Chair
Dr. Walter Rawle, Ultra Electronics Flightline Systems – Avionics and Systems Session Deputy Chair
Dr. Akif Bolubas, The Boeing Company – Crash Safety Session Chair
Christof Kindervater, German Aerospace Research Center (DLR) – Crash Safety Session Deputy Chair
J. Kristin Little, The Boeing Company – Crew Stations Session Chair
Jeffery Erwin, Bell Helicopter Textron, Inc. – Crew Stations Session Deputy Chair
Dr. Matthew Floros, U.S. Army Research Lab – Dynamics Session Chair
Dr. Jinsong Bao, Sikorsky Aircraft Corp. – Dynamics Session Deputy Chair
Dr. Michael Jump, The University of Liverpool – Handling Qualities Session Chair
Joseph Driscoll, Sikorsky Aircraft Corporation – Handling Qualities Session Deputy Chair
Brian Tucker, Bell Helicopter Textron, Inc. – Health and Usage Monitoring Systems (HUMS) Session Chair
Eric-Paul Carney, NAVAIR – Health and Usage Monitoring Systems (HUMS) Session Deputy Chair
Dr. Bruce Charnov, Hofstra University – History Session Chair
Prof. Daniel Schrage, Georgia Institute of Technology – Manufacturing Technology & Processing Session Chair
William Harris, Sikorsky Aircraft Corp. – Manufacturing Technology & Processing Session Deputy Chair
Dr. Mark White, The University of Liverpool – Modeling and Simulation Session Chair
Daniel Spira, CAE Inc. – Modeling and Simulation Session Deputy Chair
John Barber, Bell Helicopter Textron, Inc. – Operations Session Chair
Terry Parisher, Northrop Grumman Corp. – Operations Session Deputy Chair
Trevon Baker, U.S. Army AATD – Product Support Systems Technology Session Chair
Jason Johnson, Heli-One – Product Support Systems Technology Session Deputy Chair
Eric Sinusas, Bell Helicopter Textron, Inc. – Propulsion Session Chair
Michael Spratt, Rolls-Royce Corporation – Propulsion Session Deputy Chair
Jeffery Schaff, Sikorsky Aircraft Corporation – Structures & Materials Session Chair
Mark Gurvich, United Technologies Research Center – Structures & Materials Session Deputy Chair
Oxana Fedak, The Boeing Company – System Engineering Session Chair
Dr. Joan Pham, Sikorsky Aircraft Corp. – System Engineering Session Deputy Chair
Paul Taylor, QinetiQ Australia – Test & Evaluation Session Chair
Marc Alexander, National Research Council of Canada – Test & Evaluation Session Deputy Chair
Patrick Fabiani, ONERA – Unmanned VTOL Aircraft & Rotorcraft Session Chair
Chad Goerzen, San Jose State University – Unmanned VTOL Aircraft & Rotorcraft Session Deputy Chair
Glen Whitehouse, Continuum Dynamics, Inc. – Wind Energy Technology Session Chair
Prof. Jonathan Naughton, University of Wyoming – Wind Energy Technology Session Deputy Chair
FORUM 70 Short Courses

Short Course on Rotorcraft Technology
Monday, May 19, 2014 - 9:00 a.m. - 4:00 p.m.
Presented by Dick Bennett, Bell Helicopter Textron (Retired)

This 6-hour short course is designed to present the fundamental technology concepts associated with helicopters to professional personnel who have not had a formal introduction to rotorcraft. Upon completion of the lectures, the attendees will have a better appreciation of the helicopter complexities, a working knowledge of the helicopter terminology/vocabulary, and design practices. The lectures will focus on practical applications of the distinct classical engineering disciplines: dynamics, aerodynamics, mechanics of materials – and how these disciplines are interrelated in the modern helicopter. The mathematical basis will be briefly covered, but the emphasis will be on the practical applications. Specific topics to be covered include: helicopter configurations, requirements for rotor blades and hubs, isolated rotor aerodynamics, fuselage vibrations, handling qualities, and the helicopter design process.

The lectures will be supplemented with actual helicopter hardware and video clips illustrating the lecture topics. Class handouts will include all PowerPoint files, video clips, and a copy of the text "Introduction to Helicopter Analysis" (as a pdf file).

Cost: $350

Lecturer: Dr. Richard L. (Dick) Bennett.

Dr. Bennett retired from Bell Helicopter’s research department in 2001, after thirty-five years of focusing primarily on the areas of rotor aeroelasticity, helicopter flight simulation, and active fuselage vibration control systems. Since retirement he has served as rotorcraft consultant to Lockheed Martin, Boeing Helicopters, Sikorsky, LORD Corporation, BAE, Moog, Bell Helicopter, and the National Research Council Canada. He has been a long-time lecturer at The Pennsylvania State University’s “Rotary Wing Technology Short Course.”

Short Course on the Aerodynamics of Helicopter Accidents
Monday, May 19, 2014 - 9:00 a.m. - 4:00 p.m.
Presented by Jack Cress, Vortechs Helicopter Analytics

This course will cover hover performance, transition to forward flight, downwind effects, anti-torque issues, rotor system characteristics (articulated, teetering, bearingless, hybrids), turboshaft engine characteristics, high speed forward flight characteristics, descent phenomenon (VRS, autorotation), dynamic rollover and ground resonance.

The course is taught by Jack Cress, a former helicopter pilot and aeronautical engineer. He has 40 years of experience teaching short courses on related topics. The course would be beneficial to pilots, young engineers, prospective investigators and to experienced engineers interested in the interface of rotorcraft technology and common operational challenges. Participants will receive a notebook and a CD of the course material.

Cost: $350

Lecturer: John P. (Jack) Cress

Mr. Cress was a career helicopter pilot in the U.S. Marine Corps (USMC), having flown nearly 4,000 hours during his near 25 years of military service. His non-flying duties included those of a NAVAIR Program Director, Depot Engineering and Quality Officer, and IMA Maintenance Officer. He also was twice assigned to the U.S. Navy’s Aviation Safety School, where he initiated the course in helicopter aerodynamics and also taught elemental structural failure analysis. He has taught related courses for the University of Southern California, the NTSB, and at various international venues. Mr. Cress earned a B.S. in Aeronautical Engineering from the Ohio State University in 1967, and completed course work for the M.S. in Aeronautical Engineering at the Naval Postgraduate School in 1979. He also earned the Program Manager credential from the US Defense Systems Management College in 1991. Following military service, Mr. Cress was employed as a product manager with Simula Safety Systems, where he was closely involved in the development of crashworthy, energy-absorbing seating systems for numerous rotary wing aircraft. Mr. Cress is currently the proprietor of Vortechs Helicopter Analytics, where he serves in investigational, instructional, and consultancy roles relating to various domestic and international operations. He maintains active memberships in the International Society of Air Safety Investigators (ISASI), the ASM International and AHS International.