



# Momentum

News to accelerate the aerospace profession

Member e-Newsletter

December 2009

## AIAA News

### Douglas G. Talley Selected as Editor in Chief of AIAA's Journal of Propulsion and Power



AIAA has selected Douglas G. Talley, senior research physical scientist, Air Force Research Laboratory, Edwards Air Force Base, Lompoc, CA, to succeed Dr. Vigor Yang as the editor-in-chief of the Journal of Propulsion and Power. Talley began his career in engineering in the United States Navy, serving as a nuclear engineer on a submarine in 1976. He received his doctorate in mechanical engineering from Carnegie-Mellon University in 1984, and taught at the University of Michigan before accepting a position as a research scientist in the liquid rocket combustion group in the Propulsion Directorate of the Air Force Research Laboratory in 1991.

[More Info >](#)

### Rate Our Web Site - Help Us Help You

Please help us evaluate the [AIAA Web site](#) in an effort to improve functionality and navigation. You can assist simply by completing the short survey (23 questions). Please note that your [survey](#) is NOT completed until you click on the "Submit Survey" button at the very end. We appreciate your participation.

[Take the Survey >](#)

### AIAA to Implement New Conference Badge Policy Beginning January 2010

AIAA is committed to sponsoring world class conferences on current technical issues of the day in a safe and secure environment. As such, beginning January 2010 all delegates will be required to provide conference registrars identification prior to receiving a conference badge and associated materials. This entails providing a valid photo ID (driver's license or passport) when attendees check in; and for students a valid student ID will also be required.

[More Info >](#)

### AIAA to Host Patent Law Workshop at the 48th AIAA Aerospace Sciences Meeting and Exposition

## Honors & Awards

### Call for Nominations

Seeking nominations for AIAA's prestigious awards, including the George M. Low Space Transportation Award, de Florez Award for Flight Simulation, von Braun Award for Excellence in Space Program Management and others. Nominations must be received at AIAA Headquarters no later than 1 February 2010.

[More Info >](#)

### Awards to be Presented at the 48th AIAA Aerospace Sciences Meeting and Exposition

AIAA will present a number of prestigious awards during the 48th Aerospace Sciences Meeting and Exposition, 4-7 January, at the Orlando World Center Marriott, in Orlando, FL. The recipients will be honored in a public ceremony hosted by AIAA President David Thompson on 5 January.

[More Info >](#)

### AIAA Associate Fellows Dinner

One hundred ninety-five Institute members will be inducted as AIAA Associate Fellows during the AIAA Foundation Associate Fellows Dinner, which will be held Monday, 4 January,

AIAA will host a Patent Law Workshop at the 48th Annual Aerospace Sciences Meeting in Orlando, FL on 5 January. This workshop is designed to provide insight into the patent options that are available, as well as the process for obtaining patents. It will include recent changes to patent law to those who may have already navigated, or who are currently navigating this process and will also discuss some current suggested changes and what their impacts may be. This workshop is scheduled from 1500–1700 hrs on 5 January at the Orlando World Center Marriott Grand Ball Room 10.

[More Info >](#)

## White House Office of Science and Technology Policy to Host Public Meeting in Conjunction with the 48th AIAA Aerospace Sciences Meeting and Exposition

The White House Office of Science and Technology Policy will host a Public Meeting in conjunction with AIAA's 48th Annual Aerospace Sciences Meeting in Orlando, FL on 7 January from 1300-1530 hrs in the Crystal Ballroom A of the Orlando World Center Marriott. The focus of this listening session is to gain public input on the development of the draft National Aeronautics Research Development, Test and Evaluation (RDT&E) Infrastructure Plan.

[More Info >](#)

## AIAA Mourns Passing of Robert Fuhrman

*Played a central role in the creation of the Polaris and Poseidon submarine-launched missiles and was past president of AIAA*



AIAA mourns the passing of Robert A. Fuhrman, past president of AIAA and former president and CEO of Lockheed Martin Corp. Mr. Fuhrman died 21 November in Pebble Beach, CA. AIAA President Dave Thompson stated: "Robert Fuhrman's contributions to the engineering and management of the Polaris ballistic missile program, as well as his leadership of both Lockheed Martin and AIAA, contributed much to aerospace science and the security and prosperity of the United States. He was a true leader and visionary, and as we mourn his death, we salute his life and his efforts on behalf of the aerospace community and the nation."

[More Info >](#)

[Read related Washington Post article >](#)

## AIAA Commercial Space Group and AIAA Corporate Members to Offer Tour of Kennedy Space Center During the 48th AIAA Aerospace Sciences Meeting and Exposition

1900 hrs. Each year, the Institute recognizes exemplary professionals for their accomplishments in engineering or scientific work, outstanding merit, and contributions to the arts, sciences, or technology of aeronautics or astronautics. Please support your colleagues, and join us for the induction of AIAA's Associate Fellows class of 2010. Tickets to this prestigious event are available on a first-come, first-served basis and can be purchased via the registration form or on site for \$75, based on availability. Business attire is requested.

[More Info >](#)

## Featured Products

### Do Your Holiday Shopping at AIAA

Share your passion for aerospace with others. Here are a couple of suggestions for anyone interested in aviation and space.

- [100 Years of Flight: A Chronicle of Aerospace History, 1903-2003, Illustrated](#)  
Frank H. Winter, National Air and Space Museum and F. Robert van der Linden, National Air and Space Museum
- [Advice to Rocket Scientists: A Career Survival Guide for Scientists and Engineers](#)  
Jim Longuski, Purdue University
- [The Engines of Pratt & Whitney: A Technical History](#)  
Jack Connors
- [Blazing the Trail: The Early History of Spacecraft and Rocketry](#)  
Mike Gruntman
- [From RAINBOW to GUSTO: Stealth and the Design of the Lockheed Blackbird](#)  
Paul A. Suhler
- [Out of This World: The New Field of Space Architecture](#)  
A S. Howe, Brent Sherwood, and Syd

The AIAA Commercial Space Group and the AIAA Corporate Members have organized an exceptional tour at the Kennedy Space Center on Thursday, 7 January, during the AIAA Aerospace Sciences Meeting in Orlando, FL. All are welcome to attend the tour, but you will need to sign up in advance by contacting Grant Belden at [Grantb@aiaa.org](mailto:Grantb@aiaa.org) or via 703.264.7511. The tour will return no later than 3:00 PM to give people a chance to catch flights. The cost of the tour is \$40.00 and will include transportation and lunch. Space is limited, and due to required security checks, all registrations must be received by 21 December; and U.S. Citizenship is required.

[More Info >](#)

## Deadline Quickly Approaching for AIAA Board of Directors, Young Professional Liaison

**Deadline for submission of applications for the position: 1 Feb 2010**

**Position duration: May 2010 – May 2013**

The AIAA Board of Directors, Young Professional Liaison, position was instituted in January 2004, at the request of the AIAA Board of Directors through the AIAA Strategic Plan, which tasked AIAA to establish a liaison position on the Board of Directors for Young Professional (YP) members. The Liaison is to be a non-voting Board of Directors position lasting three years. The Liaison will be asked to attend Board of Directors meetings in January, May and August each year.

[More Info >](#)

## Conferences and Events

### Time Running Out to Save on the Registration Fee for the 48th AIAA Aerospace Sciences Meeting and Exposition



The early bird registration deadline for Aerospace Sciences Meeting including New Horizons Forum and Aerospace Exposition, set for 4–7 January in Orlando, FL, is quickly approaching. There are just a few days left to save money on the registration fee for the 2010 event – the early bird deadline is 7 December. Don't miss your chance to take part in over 275 technical sessions, a large exposition hall featuring industry and government exhibitors, multiple networking opportunities through receptions and luncheons, and just announced Monday, 4 January session on NASA Aeronautics Research: Then and Now. Register today to save! [www.aiaa.org/events/asm](http://www.aiaa.org/events/asm).

### Eight Short Courses Co-Located with the 48th AIAA Aerospace Sciences Meeting and Exposition

Mead

- [Success Stories in Satellite Systems](#)  
D.K. Sachdev

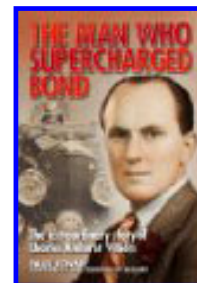
## Quick Takes

### Season's Greetings from AIAA



*Wishing you a holiday season of inspiration, joy, and peace.*

### ***The Man Who Supercharged Bond: The Extraordinary Story of Charles Amherst Villiers***



Who wrote the book *Chitty-Chitty-Bang-Bang*, on which the movie was later based? Answer: Ian Fleming, whom you may know better for his James Bond book series. But he had some help from one of our former presidents. For your reading pleasure, you might be interested in a brand new book that has just come out about Charles Amherst Villiers, who was president of the American Rocket Society in 1948. The book is *The Man Who Supercharged Bond: The Extraordinary Story of Charles Amherst Villiers*, by Paul Kenny. [More Info >](#)

- [Modeling Flight Dynamics With Tensors](#)
- [Fluid-Structure Interaction](#)
- [Flow Control for Specialists](#)
- [Large Eddy Simulations: Theory, Applications, and Advanced Topics](#)
- [Microfluidics and Nanofluidics: Fundamentals and Applications](#)
- [Systems Engineering Fundamentals](#)
- [Computational Multiphase Flow](#)
- [Best Practices in Wind Tunnel Testing](#)

[More Info >](#)

## Security Clearance Form Reminder for the AIAA Strategic and Tactical Missile Systems Conference



As a reminder, all security clearance forms are due for the AIAA Strategic and Tactical Missile Systems Conference on 28 December. The conference is set 20–21 January in Monterey, CA. Attendance to this conference is restricted to U.S. citizens who possess final SECRET security clearance verified by the Security Office Coordinator. It is extremely important that each attendee properly complete and submit the Security Clearance Form in addition to registering for the event. Just announced: three new speakers have been confirmed for this event: The Honorable Zachary J. Lemnios, Director, Defense Research and Engineering, Office of the Under Secretary of Defense (AT&L), Brig Gen Jeffrey G. Lofgren, Deputy Director of Operations, U.S. Northern Command, and RADM Stephen E. Johnson, USN, Director, Strategic Systems Programs, U.S. Navy. To view the complete agenda, or for more information on the security clearance forms and registration please visit [www.aiaa.org/events/strattac](http://www.aiaa.org/events/strattac).

## Two Short Courses Co-Located with the AIAA Strategic and Tactical Missile Systems Conference

- [Making Decisions in Missile Defense](#)
- [Tactical Missile Design – Integration](#)

## Early Bird Deadline for U.S. Air Force T&E Days 2010 Conference is One Month Away

The 2010 U.S. Air Force T&E Days will take place in Nashville, TN from 2–4 February. This year's theme will focus on Assessing the Strategic Posture of the Air Force T&E Enterprise and will feature high level speakers on all three days of the conference. General Norton A. Schwartz, Chief of Staff for the U.S. Air Force will deliver the opening keynote address on Tuesday, 2 February. Wednesday's plenary

## Become a Leader in Your Local Aerospace Community

Each Section has a set of elected and appointed officers who lead Section activities for the benefit of the members. Learn how to get involved, and get noticed.

[More Info >](#)

## Attention AIAA Members

Don't forget to check out [the new digital version](#) of *Aerospace America*. The December (The Year in Review) issue is now live.



## AIAA Career Center \*

AIAA is pleased to provide members with a Career Center, that lists extensive resumes and available positions. A powerful and user-friendly search tool allows you to find the ideal job or candidate.

[More Info >](#)

## Connect with AIAA

It's now easier than ever to social network with AIAA, via our [Facebook page](#), our [Twitter page](#), and our [YouTube page](#). Visit [www.aiaa.org](http://www.aiaa.org) and follow one of the links on the left side navigation.

presentation will be delivered by distinguished speaker: John T. Manclark, Director, Test and Evaluation, Headquarters U.S. Air Force and Thursday's plenary presentation will be given by distinguished speaker: Maj. Gen. Curtis M. Bedke, Commander, Air Force Research Laboratory. Don't miss your chance to save, register today at [www.aiaa.org/events/tedays](http://www.aiaa.org/events/tedays).

## Contact Us

[Contact the Editor](#) of AIAA Momentum—*News to Accelerate the Aerospace Profession*.  
[Submit](#) story ideas.

## Babbitt, Bolden and Kehler to Speak at the 13th FAA Commercial Space Transportation Conference



The 13th FAA Commercial Space Transportation Conference will take place from 10–11 February at the Crystal City Marriott in Arlington, VA. This year's event will feature multiple high level Keynote Speakers. The Honorable Randy Babbitt, Administrator for the FAA will deliver the welcome remarks for the conference on Wednesday morning. The Honorable Charles F. Bolden, Jr., Administrator for NASA will deliver the morning keynote address on Thursday, 11 February, and Gen C. Robert Kehler, Commander for U.S. Air Force Space Command will deliver the closing Keynote on Thursday afternoon. Additionally, the conference will feature multiple concurrent panel sessions and multiple networking opportunities. Register today at [www.aiaa.org/events/ast](http://www.aiaa.org/events/ast).

[More Info >](#)

## Don't Miss Your Chance to Attend the 2010 AIAA Congressional Visits Day

Every year, AIAA members – engineers, scientists, researchers, students, educators, and technology executives – come to Washington, D.C. to take part in AIAA's Congressional Visits Day program (CVD). They meet with national decision makers to discuss critical industry issues in civil aeronautics, civil astronautics, and defense. What's our goal? Through face-to-face meetings with Members of Congress, congressional staff, key administration officials, and other decision makers, Congressional Visits Day raises awareness of the long-term value that science, engineering, and technology bring to America. Registration for next year's AIAA Congressional Visits Day is now open. Let decision makers hear your voice at this important public policy event, set for 16–17 March in Washington, DC.

[More Info >](#)

## AIAA SPACE 2010 Conference & Exposition Call for Papers Now Open

The AIAA SPACE 2010 Conference & Exposition Call for Papers is now open. Conference organizers welcome the submittal of abstracts on all aspects of space systems and technologies. For more information or to submit an abstract visit: [www.aiaa.org/events/space/](http://www.aiaa.org/events/space/). Abstract deadline: 1 February. The conference is set for 31

August–2 September in Anaheim, CA.

[More Info >](#)

## AIAA International Communications Satellite Systems Conference (ICSSC-2010) Call for Papers Now Open

The AIAA International Communications Satellite Systems Conference (ICSSC-2010) Call for Papers is now open. The ICSSC-2010 technical program will focus on the ability of satellite systems to provide solutions that are adaptable to rapid changes in demand and in geographic coverage and that are universally interoperable with the terrestrial infrastructure. For more information or to submit an abstract visit: [www.aiaa.org/events/icssc](http://www.aiaa.org/events/icssc). The conference is set for 30 August–2 September in Anaheim, CA.

[More Info >](#)

## Call for Papers Now Open for the 2010 AIAA Missile Sciences Conference

The call for papers is now open for the 2010 AIAA Missile Sciences Conference, set for 16–18 November in Monterey, CA. The 2010 conference will focus on the technology and science as applied to missile system and sub-system design, from concept development to operational fielding and testing. Missile Sciences provides participants with a classified forum to communicate to a unique audience of peers who are involved in the detailed implementation of weapon system design and test. Developing science and technology are the keys to providing the most capable and robust strategic and tactical missile systems in the world to the U.S. military. For more information or to submit an abstract visit: [www.aiaa.org/events/missileciences](http://www.aiaa.org/events/missileciences). Abstract Deadline: 24 March 2010.

[More Info >](#)

The American Institute of Aeronautics and Astronautics (AIAA) is the world's largest technical society dedicated to the global aerospace profession.

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