



AIAA Baltimore Section

<http://www.aiaa-baltimore.org/>

[NOTE new web address!]



Newsletter, Winter 2005/Spring 2006

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During the past months we organized three programs with an international flavor.

- Dr. Andrei (Andrew) Zhalko-Tytarenko delivered a talk on the transition of aerospace industry in Ukraine from a totally military orientation during the Cold War era to a completely commercial orientation in the late nineties, from his unique perspective as the former Senior Deputy Director, [Science and Technology Centre in Ukraine](#), and the Deputy- and Acting Head of the [National Space Agency of Ukraine](#). He also served as the Director - European Community Directorate, National Centre for Implementation of International Technical Assistance to Ukraine in the 1990s.
- Dr. Jurgen Drescher, the Washington Representative of DLR, The German Aerospace Center, gave a comprehensive overview of German aerospace programs, together with its links with the EEU and US.
- Prof. Gad-el-Hak, an ASME Distinguished Lecturer, gave a talk about a joint US-Egypt project on management of disasters, with special emphasis on the role of scientists in modeling the atmospheric and geological phenomena.

On May 1 we had a joint program with the Glenn L. Martin Maryland Aviation Museum at the Lockheed Martin Auditorium, 2323 Eastern Boulevard (Rte. 150), Middle River, MD. Prof. David McLaughlin, AIAA Distinguished Lecturer, delivered a talk on *Futuristic Tracking of Storms*. This subject is important for the aerospace community not only because atmospheric phenomena affect it more than any other factor, but because modeling the atmosphere's behavior remains among the most challenging tasks that face modern scientists and mathematicians. The information on this program is available at

<http://www.aiaa.org/portal/index.cfm?adview=7&tcspageid=1096&getcomm=123>

Directions to the Lockheed Martin Auditorium are available at

<http://www.marylandaviationmuseum.org/>.

We had a very successful visit with the Congressional staff on Congressional Visit Day. Several AIAA members, some from Delaware, joined us in visiting our representatives on Capitol Hill. Members of the CVD team met with staff members from the offices of Reps. Cardin, Cummings, Hoyer, Ruppberger, Van Hollen, Wynn and Gilchrest, and Sen. Sarbanes, as well as brief meetings with Rep. Gilchrest and Rep. Calvert, the chair of the House Science Committee, at the end of the day. All expressed interest and support for AIAA and its purposes and goals.

Looking farther ahead, we are beginning to plan the Mid-Atlantic Young Professional & Student Conference scheduled for 10-11 November at the Kossiakoff Center, JHU/APL. The National Capital Section is playing a key role in helping us organize this program, along with other Region I Sections. During the past three years a large part of this program has been devoted to papers from students and young professionals. In 2006 we are making a special effort to tailor the program to attract members of AIAA from these categories. In organizing this program we need all the help we can get from AIAA members in our area. We will, consequently, greatly appreciate hearing from you.

Members At Large

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Related Links

AIAA National Capital Section:
<http://www.aiaa.org/portal/index.cfm?GetComm=181>

AIAA Delaware Section:
<http://mywebpages.comcast.net/blackre2/index.htm>

SNAME Chesapeake Section:
http://www.sname.org/hq_sections/chesapeake/

Glenn L. Martin Maryland Aviation Museum
<http://www.marylandaviationmuseum.org>

We hope you have a wonderful summer. Look forward to seeing you at the Annual Picnic in early fall.

Respectfully,

Pramud Rawat

>> From the Editor

>> FREE ASTRONAUT BOOK! <<

If I've caught your attention, that's the not-so-subtle purpose! Our section has been extremely busy coordinating many events through the year, and we would love to see some fresh faces at them. Not only are these events intellectually stimulating, but always serve that networking goal that is vital to many industries, such as the aerospace industry. Oh, and did I mention that they can be fun, as well? Meet old friends, make new ones, and make important business connections.

If you have read the newsletter to this point, at least part of my goal will have been accomplished. And as a reward for that, the Section will be giving away an **autographed copy** of local astronaut (retired) Dr. Tom Jones' newest book, "Sky Walking: An Astronaut's Memoir". If you've ever heard Tom talk at a local AIAA or other event, you know he is an engaging speaker, and his book reflects that style as well.

If you would like to be considered for this random drawing, please send an email to newsletter@aiaa-baltimore.org by May 31 to be considered in this random drawing, with the subject header "Sky Walking". Best of luck, and hope to see you at an event!

Carolyn Slivinski, Editor

>> Upcoming Events

5/11/06 Annual Space Systems Technical Committee Town Meeting

Our Annual SSTC Town Meeting held in conjunction with AIAA National Capital Section will be Thursday May 11, 2006 at the University of Maryland Inn and Conference Center. It will feature a Panel Discussion of NASA Science moderated by Dr. Wes Huntress and featuring Dr. Matt Mountain, Dr. Colleen Hartman, and Dr. Edward Weiler. For details [click here](#).

5/13/06 Baltimore County Community Waterfront Festival

This Saturday all-day event is projected to have an attendance of 25,000. One third of the event will be devoted to Maryland's presence in the aerospace community, including AIAA's Baltimore Section. See <http://www.marylandaviationmuseum.org/events/waterfest/index.html> for more details.

9/19 – 9/21/06 Space 2006: The Value Proposition for Space: Security, Discovery, Prosperity

San Jose McEnery Convention Center, San Jose, California
Plan now to attend this important event. Go to [Space 2006](#) for more information.

11-10 – 11/11/06 AIAA Mid-Atlantic Young Professional & Student Conference (Formerly Region I Technical Mini-Conference)

Last year's event was a success, and we hope to continue to grow this regional event. Put this on your calendar, and keep an eye out for more details.

12/07/06 Naval Aviation

Mark your calendar for the event to be held jointly with the Society of Naval Architects & Marine Engineers (SNAME). Details to follow.

<http://www.aiaa-baltimore.org/>



>> **Pre-College Activities: Thomas D. Milnes**

Shown in the photograph are the winners of the Elementary School Paper Plane Challenge, held on February 25 at the Baltimore Museum of Industry. Fifth grade students (from left to right) Sunitha Pawar, Sean Dunlap, Amanda Harris, and Tyler Conn display their AIAA award plaque. Teacher Joyce David, Principal Frank Tull, AIAA's Tom Milnes, and Teacher Margene Versace are clearly pleased with the results. Ms. David, Principal Tull, Ms. Versace, and the students are all from William Paca Old Post Elementary School in Harford County. Principal Tull is a pilot, and part of the kid's preparation for the paper plane challenge is a field trip to the airport where they observe his pre-flight preparations as well as a short flight around the airport. The fun is well integrated with the educational component. The kids have to complete an extensive worksheet on that activity at the airport before and while eating.



The Elementary School Paper Plane Challenge winners, 2006:
Sunitha, Sean, Amanda and Tyler

4/22/06 High School Electric Cargo Plane Challenge

Teams of high school students competed at the Baltimore Museum of Industry to design and construct an electrically powered model aircraft, which performed tethered flights, with and without cargo. While the motor is supplied by AIAA, the students created an aerodynamically-shaped aircraft. (See <http://www.thebmi.org/library/CargoPlaneRules2006.pdf>) More information will follow in the near future.

>> **Recent Events:**

- "Will My GPS Receiver Work on the Moon?"
1-25-06 [more info.](#)



- Aerospace Workforce Summit 1-26-06
[more info.](#)

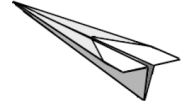




- Ukraine Aerospace: Military to Peaceful 2-22-06 [more info.](#)



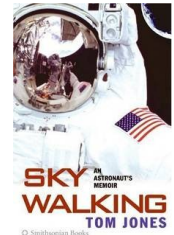
- Paper Airplane Challenge 2-25-06 [see above, Precollege](#)



- German Space Program 3-23-06 [more info.](#)



- Tom Jones, Astronaut 4-3-06 [more info.](#)



- "The Art and Science of Large Scale Disasters" 4-20-06 [more info.](#)



>> Of Interest

- [AIAA Partnership with the Maryland Aviation Museum](#)

The Baltimore Section of the American Institute of Aeronautics and Astronautics (AIAA) and the Glenn L. Martin Maryland Aviation Museum (MAM) are pleased to announce a partnership strengthening both organizations. For 75 years, AIAA has been the principal society of aerospace professionals. In this role, AIAA serves the aerospace community, including global scientists, engineers and allied professionals who design, develop, construct, and operate air and space vehicles. This alliance will increase the visibility of the extensive air and space community in Maryland. AIAA and the Museum are also both committed to improving public understanding of aerospace and its contributions through educational outreach activities; this partnership will allow us to broaden the scope of each organization's outreach to a wider audience, especially children, who we hope will discover how much the future of aerospace holds.

As this relationship develops, you will see indicators in the activities of both organizations. Last fall, the Museum was an exhibitor at the Baltimore Section's Technical Mini-Conference, and Jack Breihan, one of the members of the Museum's Board of Directors, gave a presentation on *Maryland Aloft*, a book he edited. Currently, AIAA members are organizing many of the aerospace exhibitors who will participate in the May 13th Baltimore County Community Waterfront Festival, and the Section will have an AIAA exhibit of its own. The MAM May speaker will be David McLaughlin, an AIAA Distinguished Lecturer whose visit is financially supported by AIAA headquarters. Additionally, both AIAA headquarters and the Baltimore Section have been assisting in developing plans for the Museum's new education center and associated youth programs based on their experience offering such programs over the years.

<http://www.aiaa-baltimore.org/>



Affiliations with other aerospace organizations such as the Bendix Radio Foundation, the Civil Air Patrol, and others allow the Museum to offer richer programs for their members and the public, supporting their objectives of education and enhancing Maryland's aviation and space community. The joint publicity possible through the Museum's affiliates increases attendance and participation in the Museum, already reflected in increased speaker program attendance and members of other organizations that have begun volunteering at the Museum.

Please take a minute to talk to members of our new partner and their affiliates at upcoming events. You will find them to be knowledgeable participants in aviation and space industries, with many common interests and a wide variety of fascinating backgrounds.

>> Other News of Interest

- SpaceX's Inaugural Falcon 1 Rocket lost just after launch
http://www.space.com/missionlaunches/060324_spacex_failure.html
- CloudSat successfully launched on its sixth attempt. This mission will provide crucial information about the vertical structure of clouds as part of the "A-Train" constellation of atmospheric satellites. <http://cloudsat.atmos.colostate.edu/>
- Launch of SPHERES (Synchronized Position Hold Engage Re-orient Satellite) –a battery-powered, gas-propelled ball designed to use ultrasound signals to determine its position in space. The technology could lead to improved automated docking systems for future missions.
http://www.space.com/business/technology/060503_techwed_spheres_iss.html
- General Dynamics gets \$50 million more for battlefield robotics
http://www.washingtontechnology.com/news/20_10/news/26231-1.html
- Northrup Grumman's Global Hawk Unmanned Aerial Vehicle returns after more than 4,800 flight hours <http://www.skycontrol.net/uav/global-hawk-unmanned-aerial-vehicle-returns-after-more-than-4800-flight-hours-in-fight-against-terrorism/>

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