



JUNE/JULY 2012

AIAA NEWSLETTER

2012-2013 DELAWARE SECTION ELECTIONS

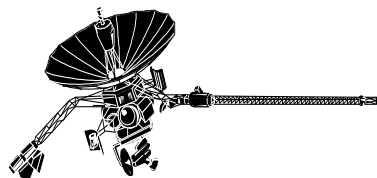
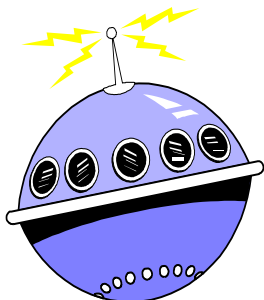
Robert Bonifant, Chairman of the Tellers Committee, advises that the following officers have been reelected for the 2012-2013 term of office:

Chairman
Vice Chair
Secretary
Treasurer

Eric Spero
Tim Dominick
Bernadette Goncz
Erika Conly

DELAWARE SECTION WEB SITE

The AIAA Delaware Section web site has been revamped. You are invited to visit the DE Section web site at: <https://info.aiaa.org/Regions/NE/Del/default.aspx> or navigate there via the AIAA National web site at: www.aiaa.org. We invite you to visit your section web site and provide any comments or suggestions.



THE DELAWARE FLIER

PUBLISHED BY AND FOR THE MEMBERS OF THE AIAA DELAWARE SECTION

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For your reference, the officers and council
members for the 2012-2013 term are listed below:

Chairperson

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Vice-Chair

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RAC Representatives

Dave Rosenberg and Eric Spero

THE DELAWARE SECTION

The Delaware Section is part of the American Institute of Aeronautics and Astronautics, the principal society and voice serving the Aerospace profession. The AIAA primary purpose is to advance the state of the art, sciences and technology of aeronautics and astronautics and to promote the professionalism of those engaged in these pursuits. The institute serves as the vehicle for focusing the energies and interests of its members in their own technical and professional development and service to society.

AIAA WEB SITE

The AIAA Web site (www.aiaa.org) continues to receive over 45,000 visits per month and serves as a point-of-purchase for memberships, meeting registrations and subscriptions. It also provides access to bibliographic data of AIAA meeting papers for the past five years as well as connections to web sites of individual AIAA section chapters.

MEMBERSHIP

We continue to be encouraged by the number of new or prospective members that have recently shown an interest in the Delaware AIAA. If you know of any prospective members, please have them call Dave Rosenberg, Membership Chair, to obtain an application. If you wish to be upgraded to Senior Member, Associate Fellow or Fellow, also contact him for details and an upgrade application form.

ARE YOU HAVING A MEMBERSHIP OR SUBSCRIPTION PROBLEM?

If you are having a membership or subscription problem you can contact AIAA customer service at 1/800-639-2422 or via fax at 703/264-7657.

If the AIAA staff is not responsive, let your AIAA Ombudsman, John Walsh, cut through the red tape for you.

John can be reached at 703-893-3610 or by writing to him at: 8800 Preswold Place, McLean, VA 22102

CHAIRMAN'S MESSAGE

Dear Fellow AIAA Delaware Section Members,

Greetings to all of you and thank you for the opportunity to serve you as the Chair of the AIAA Delaware Section for a second year. Returning officers Vice-Chair Tim Dominick, Treasurer Erika Conly, and Secretary Bernadette Goncz will continue to support the Section in their current roles.

Last year we made strides towards increasing our involvement with other Sections and in branching out our involvement in Science, Technology, Engineering, and Mathematics (STEM) activities. This year, we look to continue these efforts, as well as initiate some new ones. We set the bar for use of social media within AIAA Sections last year. I know that not all of our Section Members use Twitter, Facebook, or LinkedIn. However, recognizing that many of our activities are targeted at the STEM focus area, we must adapt and use the resources available to us to reach the next generation of aerospace professionals. As such, we will continue to advertise our social media presence during STEM events, as well as those events which deserve special mention (e.g., Conferences, significant space launch successes, and live updates from CVD). You can easily follow your AIAA Delaware Section on Twitter (@AIAA_DE) and Facebook (AIAA - Delaware Section), just like the office of Sen. Chris Coons (DE) does. Administratively, we had two Young Professional members step up and fill vacant Council positions of Young Professional Chair and Education Chair. Lastly, we updated our By-Laws to reflect our standing as a Very Small Section, and to better align with the AIAA By-Law template.

This Section is nationally recognized and perennially awarded by AIAA, thanks to the foundation laid by the previous Chairs and the hard work and volunteerism of this Section's Members. For my second term, I have set goals for increasing involvement of our Educator Associates in Section activities, better recognizing new Section Members and those achieving milestone years, increasing involvement in STEM activities, and holding joint events with other local AIAA Sections.

Educator Associates, K-12 teachers of STEM subjects, are our Section's direct line of communication with the STEM focus group. We currently have 11 Educator Associates in our Section. Please know that the Section Council is here for you; contact us for STEM education resources, speaking engagements, classroom presentations, and "Ask an Engineer" inquiries. If we cannot meet your needs directly, we can put you in touch with a Section Member who can. Last year we had a handful of new Members join our Section. However, we did a poor job of advertising who they are so this basically went unnoticed. This year, we will be recognizing our new Section Members (5 in June/July!) and those who are reaching milestone anniversaries (25, 40, 50, 60, 70). We'll be announcing your name, organization, and Member type in our monthly Lunch and Learn series. As we have in the previous several years, we continue to reach approximately 1,000 students annually. However, there are untapped STEM resources available to us, which can enable us to reach even more students across our territory. I plan to explore and disseminate further information in the coming year. Finally, we will expand our involvement in advertising, planning, and holding joint events with other local AIAA Sections, as well as with Sections/Chapters of other professional organizations. This cross-fertilization of experience will continue to advertise the AIAA brand as well as expand knowledge of what the AIAA Delaware Section can do for aerospace in the local community.

In addition to our monthly Lunch Lecture Series held between September and April, following is a reminder of some of the other activities that our Section will be participating in this year:

- Distinguished Lecture Dinner meeting, Fall 2012
- Cecil County Public Schools STEM Academy, Fall 2012
- National Engineer's Week and Introduce a Girl to Engineering Day, February 2013
- AIAA Congressional Visits Day (CVD), March 2013
- Distinguished Lecture & Awards Dinner meeting, Spring 2013
- Rockets for Delaware, May 2013
- Bus trip to the Smithsonian National Air and Space Museum, June 2013

I look forward to the opportunity to continue to serve you as the Chair of the Delaware Section. This Section has a strong focus on volunteering in STEM, and is annually rewarded by AIAA for such. I invite us all to continue this success through volunteerism, recalling that we are to be striving to advocate, advance, and stimulate aerospace in the local community. If you have questions, comments, or ideas to improve your AIAA Delaware Section, please feel free to contact me or any of the Section officers. Your participation in Section events is the key to our success!

Sincerely,

Eric Spero

AIAA Delaware Section Chair, 2012-2013

DE SECTION OFFICERS

Chairman - Eric Spero graduated from Colorado State University in 1997 with a bachelor's degree in Chemical Engineering, and from the Georgia Institute of Technology in 2007 with a master's degree in Aerospace Engineering. His graduate concentration was in parametric design and optimization of aerospace systems. He is currently employed by the U.S. Army Research Laboratory as a Research Aerospace Engineer in the Vehicle Technology Directorate. Previously, he worked for ATK as a Project Engineer and as a Systems Engineer. Prior to ATK, he was employed by the Air Force Research Laboratory in Edwards, CA in the Liquid Engine Branch, as a Project Engineer/Manager on technology demonstration projects. This will be his second term as Chair of the Delaware Section. Previously, he has served as the DE Section Vice-Chair and Education Chair.

Vice-Chairman – Timothy Dominick graduated from Rensselaer Polytechnic Institute in 1996 with a degree in Aerospace Engineering. He began working for ATK in June of 2004 as a Thermal Analyst in the Analysis Group and is now the Lead Analyst for SM-3 MDACS. Previously, he was employed by Fiber Materials, Inc. in Biddeford, Maine as a developer of carbon-carbon materials as they apply to nozzles and thermal protection systems. This will be Tim's second year as Vice-Chairman of the Delaware Section. Previously, he has served as the DE Section Chairman, Secretary, and Young Professional Chair and is currently the Deputy Director of Public Policy for Region I.

Treasurer – Erika Conly graduated from the University of Virginia in 2002 with a bachelor's degree in Aerospace Engineering and a minor in Applied Mathematics. Erika began working for ATK in April 2003 as a Project Engineer on the Standard Missile-3 (SM-3) Third Stage Rocket Motor (TSRM). This will be her second term as Treasurer, and she has previously held the Vice Chair and Secretary positions. Erika has been an active AIAA member since 2000, when she participated in her local UVA student section.

Secretary - Bernadette Goncz works as a Design Engineer for GE Aviation/Middle River Aircraft Systems in Baltimore, MD (2010-present). Prior to that, she worked as a Project Engineer at ATK (2005-2010). She graduated from the University of Virginia in 2005 with a degree in Aerospace Engineering and a Minor in Mechanical Engineering. She is currently working towards a Master's degree in Aerospace Engineering from the Georgia Institute of Technology (graduating in 2012). This will be her fifth term as Secretary.

AIAA INFORMATION

As of June 1, 2012, there were 26,949 professional AIAA members of whom 4,777 were international members. There are also 3,939 Educator Associate Members and 7,112 student members. There are 97 corporate members (including ATK) of which 12 are International companies. There are 66 technical committees. Your local Delaware AIAA Section has 73 professional members not including 11 Educator Associates and 7 Student Members. The Delaware Section membership distribution includes: Member 18, Associate Fellow 9, Fellow 2, Senior Member 43, Associate Member 1.

AIAA Membership

The AIAA Board of Directors approved the following dues schedule which took effect on 1 May 2010:

Associate Member/Member	\$105.00
Retired/Returned To Full Time Study/Spouse/Unemployed	52.50
Fellow	120.00
Retired Fellow	60.00
Affiliate Member	75.00
Recent Graduate: 1 st Year	free (unchanged)
2 nd Year	52.50
Student	20.00 (unchanged)

The AIAA is continuing its popular Membership Renewal program. Current members can obtain \$5 in AIAA store credits for each new member recruited. Details can be found at: <http://www.aiaa.org/content.cfm?pageid=332> by clicking on the right side under "Come Tell Your Friends about AIAA". So share the wealth. You know the valuable resources that AIAA offers. Tell a friend or colleague, today, about AIAA. Not only will you help AIAA grow, you will receive a \$5 bonus.

We are also offering a Special \$10 Discount for members that join at any of our section meetings. The new member just fills out the membership application form but crosses out the full amount and replaces it with \$10 less with the notation, "Joined at Delaware Section meeting on (enter date)" and has it certified by (Section Officer's name and position). The application must be then submitted to AIAA National.

If you know a Young Aerospace Professional in the first five years of professional practice, AIAA will cut their first year's dues in half! After the first year, regular membership rate applies. They cannot have been a member or student member previously. To apply, they will need to call customer service at 800-639-2422 and talk to them directly – it can't be done online.

AIAA also offers Free Educator Associate Memberships for educators in grades Kindergarten through 12 that are interested in the development and application of science, mathematics, and technology for their educational curriculum. To recommend a friend or colleague as an Educator Associate, contact Dave Rosenberg for an application.

Membership Upgrades - To request membership upgrade information or nomination forms, contact Dave Rosenberg, go to AIAA customer service at 800/639-AIAA or 703/264-7500 or visit the AIAA Web site at: <http://www.aiaa.org> . See the following link for more information: <http://www.aiaa.org/content.cfm?pageid=183>

Student Upgrades Any student who is a member of AIAA in good standing at the time of graduation will automatically receive one free year of professional membership and the second year at half price

NATIONAL AIR AND SPACE MUSEUM BUS TRIP – SATURDAY, JUNE 23, 2012

This year the trip down to the Washington DC to visit the National Air and Space Museum on the Mall was a success. We had 26 people sign up this year, AIAA members, non-members, ATK employees, and more. The bus left the ATK parking lot at 9 am to head down to Washington DC. AIAA-DE section organized the event to keep people already in the aerospace industry interested and to pique to interests of those who are not necessarily involved with the aerospace industry. It is also a wonderful way for young children to find out more about the aerospace industry and its fascinating history. Even the youngest participants were very excited to go as they boarded the bus. The bus arrived at the museum around 11 am and once we were off the bus, everyone was free to explore the museum independently and at their leisure. Everyone was given plenty of time to take a look at all the exhibits that the museum had to offer. The museum was as fascinating as it always is. Everyone on the trip clearly enjoyed the hands on experiences and history that the museum offers. A few even took advantage of the IMAX movies that are shown at the museum, such as the movie about the repair of the Hubble Space Telescope. It was also encouraging to see not only the enthusiasm of our own group, but the large number of people in general enthralled by the museum. The bus returned to the museum at 5 pm and the rest of the trip continued without any complications. We arrived back at the ATK parking lot around 7 pm. Even after a busy day down in Washington DC, everyone, the youngest members of our group especially, returned with their curiosity or continued interest piqued. The trip was undoubtedly a success and we will continue with the trip next year, perhaps to the Air and Space Museum at the Dulles airport to see the Space Shuttle Discovery.



PICTURE OF THE GROUP IN FRONT OF THE NATIONAL AIR AND SPACE MUSEUM

MAY 30, 2012 – RISING SUN AP STUDENT PLANT VISIT

As a treat for completing their AP Physics and Calculus exams, on May 30th 25 students from Rising Sun High School in Rising Sun, Maryland participated in a plant visit to ATK in Elkton, Maryland. Members from AIAA and other ATK employees played host to the students and their instructors. The students were treated to lunch while AIAA Vice Chair Tim Dominick explained some rocket motor history and gave a brief rocket motor 101 lesson. The students then toured part of the plant, including the machine shop. The students were then given a demonstration of the software MathCAD and provided with free student versions of the software as a parting gift. Many of the senior high school students on the trip will be starting their freshman semester in Engineering in the fall.

CECIL COUNTY STEM ACADEMY

On Friday, June 15th, the AIAA-Delaware Section and ATK hosted the Cecil County STEM Academy. Twenty students who are entering their sophomore year in the fall attended the visit along with their three coordinators. The students had been visiting local companies all week who employ graduates with a STEM degree to see the variety of careers available to them in the future, should they pursue a college degree in a STEM field. At ATK, the students were treated to a pizza lunch and heard the about a sampling of the positions available at ATK including design engineering, analysis, propellant chemists, and testing engineering. After the presentation the students were given a tour of the testing facilities and were able to see a static firing of a small motor. Then, AIAA STEM chair Breanne Wooten and Young Professional chair Jeremiah Shiflet gave the students a brief history of US manned spaceflight, highlighting ATK's contributions and played a trivia game to see what the students knew about our spaceflight history.



STEM Academy students and chaperones along with AIAA DE STEM Chair Breanne Wooten, AIAA YP Chair Jeremiah Shiflet and Dr. William Prins

STEM SUMMER CAMP PLANT VISIT

On Thursday, July 12th, the AIAA-Delaware Section and ATK hosted 32 Delaware Aerospace Academy middle school students. The students received an overview of ATK and its propellant manufacturing activities, toured testing facilities, and got to witness a static firing of two small rocket motors. Upon arrival at the ATK facility, the students were given lab coats and safety glasses for their protection during the tour. The students toured the environmental testing facility and its control room, and were given a presentation on the importance of environmental testing to ATK motors. During the tour, the students got to see high and low temperature testing equipment, as well as shock and vibration test equipment. The head of ATK testing provided an overview of the small motor tests and how their data determines propellant lot acceptance. At the end of the tour, the students were able to observe a test firing of two small motors. Although the students were not able to see the actual tests, they were outside of the test facility and were able to see the exhaust plume on a television monitor and hear the warning siren, countdown, and the actual motor firings.



DAA students and chaperones along with AIAA DE YP Chair Jeremiah Shiflet