



MAY 2012

AIAA NEWSLETTER

NATIONAL AIR AND SPACE MUSEUM BUS TRIP

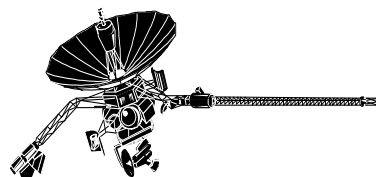
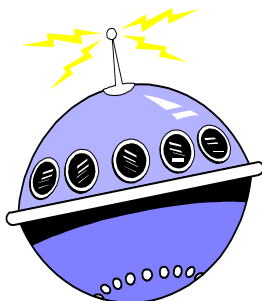
This bus trip is an annual event for the AIAA Delaware section and will be a great way to attract new members to AIAA and retain the current members as well as introduce young minds to the aerospace industry. This is a wonderful opportunity to whet the appetites of the people in the Delaware region who are excited about our industry. By sponsoring this day trip, we also hope to inspire and encourage children who attend to consider engineering or science careers. When some of these children are asked in the future, "When Did You Know?" it is hoped that their answer points to their AIAA-sponsored trip to the National Air and Space Museum. This year the trip will be on Saturday, June 23. ****An RSVP is required prior to June 14****

For more information please contact any of the officers below:

Eric Spero	410-278-8743
Tim Dominick	410 392-1069
Bernadette Goncz	410-682-1945
Erika Conly	410-996-3730

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 2011-2012 term are listed below:

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Timothy.Dominick@ATK.com

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Membership and Communications

Dave Rosenberg, ATK (Retired)

302-368-5978

MDROsenbrg@aol.com

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.

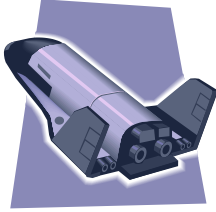
ARE YOU HAVING A MEMBERSHIP OR SUBSCRIPTION PROBLEM?

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 22102-2

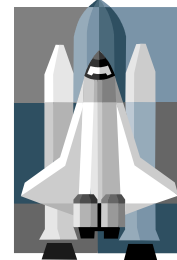
AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS



ANNUAL BUS TRIP TO



Smithsonian
National Air and Space Museum



— Saturday, June 23, 2012 —

What: Bus trip to the Smithsonian National Air and Space Museum in Washington, D.C.

When: Saturday, June 23, 2012

Where: Bus will depart from the ATK Elkton parking lot (off of Route 40)

{ Depart ATK Elkton 9 AM
Arrive at Smithsonian ~11 AM
Depart Smithsonian 5 PM
Return to ATK Elkton ~7 PM }

How much: \$5 for AIAA members, \$10 for non-members. Prepayment is requested and non-refundable.

Contact: Make a reservation on the bus by calling:

Taylor Donaldson – (410) 392-1022; william.donaldson@atk.com

Tim Dominick – (410) 392-1069; timothy.dominick@atk.com

RSVP by June 14, 2012

For more information on joining AIAA, contact:
Tim Dominick – (410) 392-1069; timothy.dominick@atk.com

2012-2013 DELAWARE SECTION ELECTIONS

It is time for the annual election of your AIAA DE Section Officers. Also, we are conducting a special election this year on our Section By-Laws. Instructions follow. Voting will close 20 days after the newsletter is published, on or around June 18.

Officer voting, Electronic:

- Follow this link: <https://info.aiaa.org/Regions/NE/Del/Lists/2012%20Officer%20Voting/overview.aspx>
- Sign into the site (upper right-hand corner)
- Click on "Respond to this Survey"
- Fill in your selection for each position
- Click "Finish"

****If you participate in Electronic voting, please do not submit a Paper ballot****

Officer voting, Paper:

- An Officer ballot is included in this newsletter
- Fill in your selection for each position
- Mail your ballot to the AIAA DE Section Tellers Committee as indicated

****If you participate in Paper voting, please do not submit an Electronic ballot****

By-Laws voting:

- Follow this link: <https://info.aiaa.org/Regions/NE/Del/Lists/Bylaws%20Voting/overview.aspx>
- Sign into the site (upper right-hand corner)
- Right-click on the link within the survey description and save the file to your computer so that you can view the document
- Review the By-Laws
- Click on "Respond to this Survey"
- Fill in your approval or disapproval and any comments you have
- Click "Finish"

MAY 2012 DISTINGUISHED LECTURE DINNER

The AIAA Distinguished Lecturer Dinner Program was held on May 15, 2012 starting at the Executive Banquet and Conference facility, 205 Executive Drive in Newark, DE. The topic was "Future Space Transportation". The speaker was Gene Austin. There were 21 attendees.



GENE AUSTIN



GENE AUSTIN AND TIM DOMINICK



GROUP PHOTOGRAPH

AIAA INFORMATION

As of April 1, 2012, there were 26,805 professional AIAA members of whom 4,024 were international members. There are also 3,918 Educator Associate Members and 7,085 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 70 professional members not including 9 Educator Associates and 6 Student Members. The Delaware Section membership distribution includes: Member 18, Associate Fellow 9, Fellow 2, Senior Member 40, 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

PURDUE UNIVERSITY DESIGN COMPETITION

This past spring members from the AIAA Delaware section acted as judges for a design competition held every semester at Purdue University. Aeronautical and astronautical engineering students are required to take AAE 251: Introduction to Aerospace Design. This course teaches the students the fundamentals of design, the importance of written and oral communication and how to work in a team. The students demonstrate these skills through their final project. The students are given a request for proposal that requires them to design an aircraft and a rocket that will meet their customer's needs. Their final design is presented in a written report as well as a presentation to their classmates. This project is much more than a grade to these students though, it is a source of pride. The professor instructing this course sends the top reports to Purdue alumni to review and rank. The reports are graded based on their technical content and the team's ability to communicate their design. The judges evaluated four teams on the efficiency, success and use of engineering principals in the design as well as the team's professionalism, organization and appropriateness of the report.

BOHEMIA MANOR CAREER DAY

On Thursday, May 17th, Bohemia Manor Middle School held their first career day, which the AIAA Delaware Section supported. The career day was open to all 8th grade students. The students selected four different 30 minute workshops to attend, each highlighting a different field. During the last 30 minutes of the morning the students were invited to visit the various classrooms during a "gallery walk" to allow them to discuss careers with professionals whose workshop they were not able to attend. STEM officer Breanne Wooten attended the career day as a representative for the field of engineering. The students were given a quick rocket motor introduction during the workshop, shown videos of the various programs one might work on in the aerospace industry, and given advice for classes and activities to participate in during high school to enhance their STEM experience. Approximately 50 students participated in the workshops, with another 10-15 visiting during the gallery walk, including all the participants from this year's Introduce a Girl to Engineering Day!

ROCKETS FOR SCHOOLS PROGRAM

This year was the 16th annual Rockets for School (RFS) program sponsored by the Delaware Aerospace Education Foundation (DASEF). The event was held at Cape Henlopen State Park in Lewes, DE on Saturday, May 5, 2012. AIAA-DE section supported the event to run a display booth and to provide award and contest prize money for the event. The categories that received prizes were: Design a Logo, Canister Rocket, Balloon Lifting, Bottle Rocket, Single Stage Rocket, and Advanced Rocket.

RFS is a hands-on learning program, developed by DASEF, which seeks to educate children on the importance of science and technology and stimulate academic interest and public awareness in engineering, math, technology, space, and environmental sciences.

Rockets designed and built by K-12 students in Delaware-area schools were on exhibit for all to see, and were launched throughout the day from the designated high powered launch areas. Canister rockets, constructed from 35-mm film canisters with an antacid-water propellant combination, were launched inside of the event exhibit tent. Bottle rockets using water and pressurized air for fuel, constructed from 2-liter soda bottles, were

pressurized and launched on the event field site. Single-stage rockets, splashed with each team's personalized logo, were launched on the event field site and recovered by the Civil Air Patrol (CAP). Advanced rockets, with a personalized paint job and payload, were on display inside of the event tent but were not launched due to low cloud cover.

The Delaware AIAA Section set up a display booth in conjunction with ATK Tactical Propulsion and Controls Division, Elkton Operations. Taylor Donaldson, Education Chair, helped answer questions about AIAA and rockets along with ATK representative Anthony LoRusso, and distributed prize money to the winners of each rocket category.

The Delaware Aerospace Education Department (in conjunction with the Delaware Teacher Center) provides high quality, aerospace educational programs and outreach science/math/technology activities to K-12 students throughout Delaware. These activities provide highly motivating and interdisciplinary opportunities for students to learn about science-based life skills and non-traditional career choices. DASEF is a non-profit organization that conducts the summer Delaware Aerospace Academies and other AeroTech educational support programs and outreach that serve as a framework for educating, exciting and motivating students.

For more information on DASEF and Rockets for Schools, please visit <http://www.dasef.org>.



TAYLOR EXPLAINS ROCKET PROPELLANT INGREDIENTS



TAYLOR WITH WINNERS OF THE ADVANCED ROCKET COMPETITION



SINGLE STAGE MODEL ROCKETS READY FOR LAUNCH

FUTURE PLANS

May 30, 2012 – Rising Sun AP Student Plant Visit

June 23, 2012 – Annual Bus Trip To The Smithsonian National Air and Space Museum

Week of June 11, 2012 – STEM Summer Camp Plant Visit

DELAWARE SECTION AIAA – ELECTION BALLOT 2012

The following slate of officers for the 2012-2013 term of office has been nominated for the Delaware Section of the American Institute of Aeronautics and Astronautics (AIAA). All terms of the office are for one year starting July 2012.

OFFICE	NOMINEE		AFFILIATION
Chairman	Eric Spero	[]	ARL
	_____	[]	nominee
Vice-Chairman	Tim Dominick	[]	ATK
	_____	[]	nominee
Secretary	Bernadette Goncz	[]	GE Aviation
	_____	[]	nominee
Treasurer	Erika Conly	[]	ATK
	_____	[]	nominee
AIAA Membership Number:	_____	(required)	<u>Due: June 18, 2012</u>

Special Note: Please include your AIAA Membership Number information on the ballot. The Membership number is the number found on your Aerospace America magazine label or your AIAA membership card. That number is the only means by which to verify that the ballot is valid and that any member has not voted more than once.

In accordance with the election procedure, section members may enter additional nominees for one, or all, of the section officers proposed by the nominating committee. If alternative names are presented, a written confirmation that the alternative member has agreed to serve the term of office will be required. Each petition nominee requires the support of at least 5% of the section membership. The nominee receiving a plurality of votes cast wins that office. Section members should mark and return their ballots to the Delaware Section Secretary by **Monday, June 18 2012**. The ballots can be sent to:

AIAA Delaware Section Teller's Committee
Robert Bonifant
55 Thiokol Rd.
Elkton, MD 21921

Your ballot vote can also be sent to the AIAA Tellers Committee (Chairperson Robert Bonifant) via e-mail to: Robert.Bonifant@ATK.com.

Electronic voting is also an option, using this link:
<https://info.aiaa.org/Regions/NE/Del/default.aspx>, by clicking the navigation bar on the left side of the homepage.

In addition to the Section Officers, committee chairpersons and committee members for the 2012/2013 term are to be appointed but do not have to be nominated or elected by ballot. The committee chairpersons work with the new officers as council members. The anticipated committees for the next year include membership, education, public policy, programs, young professional, technical, career enhancement, honors and awards, communications, and K-12 STEM outreach council representatives. If you would like to serve on any of these committees please let the section know, by telephone, e-mail, or regular mail.

If you have any ballot election questions or suggestions, please contact Bernadette Goncz:
Bernadette.goncz@ge.com.