



*From
the
Chairman...*

The Section has just finished a couple of very busy months.

On January 14, the Section co-sponsored the Tactical Missile Design Symposium held at the University of Alabama in Huntsville (UAH). This event was very successful and resulted in a significant contribution to our scholarship fund, as well as contributions to the UAH Foundation and the UAH AIAA Student Branch. The picture (to the right) shows Dr. Robert Frederick of UAH, a Co-Chair of the symposium, holding a certificate presented to the Section from the President of UAH for supporting this program. On the left is Mr. Victor Giuliano of our Board of Directors (Your Section Chair on the right).

Mr. Bruno Cavallo, one of the AIAA Distinguished Lecturers, spoke at the Section's dinner meeting on February 21. Mr. Cavallo's fascinating presentation on "Advanced, Experimental, and Conceptual German Aircraft 1936-1945" revealed many developments presaging subsequent trends in a wide variety of aircraft.

On February 22, the New Advancements in Key Aerospace Technologies seminar series began. Mr. Art Stephenson, Director of NASA/MSFC, kicked off the seminar with welcoming remarks in which he noted the importance of technology to our country, and the value of exchanges such as the seminar series. Mr. Bob Sackheim, Assistant Director and Chief Engineer for Propulsion at NASA/MSFC, presented an overview of the seminars. Our Section is fortunate to receive the direct support of upper level management such as this, who could easily claim more pressing affairs prevent their becoming involved at the Section level. This first seminar was on Information Technology issues. The seminars on March 1 and March 8 addressed Space Transportation and Access to Space, and U.S. Missile Defense Programs, respectively. The final session on March 15 will deal with Space Transportation Operations Technologies and Future Space Science Plans. More information about the seminars can be found in the last two issues of Telemetry, or on the Events page of our website at www1.msfc.nasa.gov/aiaa/.

Upcoming events include (1) the Annual Moonbuggy Races on April 11-12 at the U.S. Space and Rocket Center in Huntsville; (2) a dinner meeting on April 17 at which Mr. William Chana will speak on the Wright Brother's technical

development efforts; and (3) the Annual Section Awards and Officer Installation dinner on May 15.

I hope to see you soon at the activities of your Section.
-- Arloe Mayne



(L to R): Mr. Victor Giuliano, Dr. Robert Frederick and Dr. Arloe Mayne.

From the Young Professionals Director...

****** ANNOUNCING ******

Young Professionals Proposal Writing Seminar

"What It Takes to Win!"

**Tuesday, April 15, 6:30 pm to 8:30 pm
at the Huntsville Public Library
Auditorium
in Huntsville, AL**

The focus of this seminar is to expose young professionals to the proposal process and what it takes to write a successful proposal.

For more information, contact:

**Ms. Allison C. Cash
256-650-2738 or Allison.Cash@itt.com**

Centennial of Flight Celebration

Throughout 2003, Alabama will commemorate the centennial of flight by celebrating some of the state's greatest accomplishments in aviation. Alabama has witnessed the dream to flight develop through the years into the marvelous accomplishment of science and technology that it is today. This year will highlight several Alabama natives and aviation milestones. The state's rich history of aviation heritage includes the Tuskegee Airmen, Wright Field, and the economic support of the aerospace industry. The Alabama Aviation Hall of Fame, located in Birmingham, Alabama, recognizes the individuals that have contributed to the continual development of aviation technology. The centennial celebration will focus on the historical importance of the Wright brothers and the era following. Celebration events aimed at encouraging all ages to discover the excitement of aviation will continue throughout the year to honor Alabama's aviation importance.

Below are listed dates and Alabama locations for Centennial of Flight Celebration events. Updates and news regarding the event are made available at the Centennial of Flight web site: www.aerospace.state.al.us/centennial/.

June 13-14 -- Riverchase Galleria in Birmingham
 July 18-19 -- Wiregrass Commons Mall in Dothan
 August 29-30 -- Quintard Mall in Anniston
 September 26-27 -- Colonial Bel Air Mall in Mobile
 October 17-18 -- Colonial Mall in Auburn/Opelika
 November 14-15 -- Eastdale Mall in Montgomery

For more information, contact Mr. Kevin Connell, Section Director for Education at 256-782-5972, or by email at kconnell@jsucc.jsu.edu.

CVD 2003

AIAA's Seventh Annual Congressional Visits Day will be held April 7-8, 2003 (Monday and Tuesday) in Washington, D.C. Registration fee is currently \$300. Special rates for Government Employees and Retirees are \$150. Student rates are \$50. No registrations will be accepted after March 25, 2003.

CVD gives AIAA members the opportunity to educate their Congressional representatives and staff on the technical and public policy issues affecting the aerospace community. If you would like more information on the CVD events, go to:

<http://www.aiaa.org/about/index.hfm?abo=230>

For further information contact:

Mr. Paul Looney: paul@aiiaa.org, 703-264-7625

Mr. Michael Beavin: michaelb@aiiaa.org, 703-264-7517

AIAA AL-MS Section. P.O. Box 7208. Huntsville, AL 35807

AIAA National Elections

The ballots for the 2003 AIAA Elections have been sent to all eligible voters. There was an unexpected delay due to weather conditions in the Washington DC area. The ballots have been sent via first class and will arrive in an envelope marked "Ballot Enclosed".

Please mark and return your ballots upon receipt. **The deadline for receiving the completed ballot at AIAA Headquarters is March 26.**

Ballots for the upcoming AL-MS Section Elections will be mailed soon!

An Opportunity You Can't Pass Up!!

Now you can enjoy uninterrupted membership benefits for life!

How? By becoming a Lifetime member. You'll have the convenience of knowing that your dues are paid for life, protection against future dues increases and the prestige of being a lifetime member of the AIAA.

Becoming a Lifetime member is easy. Simply call an AIAA Customer Service Representative today! You have the option of making one dues payment of \$1275 or setting up installment payments of—two payments of \$637.50, four payments of \$318.75 or eight payments of \$159.37. Either way, you'll enjoy a lifetime of the cutting-edge technical information you need, the networking opportunities you desire, and the recognition you deserve from your peers.

Take advantage of this opportunity, and become an AIAA Lifetime member today by calling AIAA Customer Service at 800-639-2422 or 703-264-7500 (outside the U.S.).

A Reminder...

Associate Fellow nominations are due by April 15.

Associate Fellow references are due by May 15.

Fellow and Honorary Fellow nominations are due by June 15.

Fellow and Honorary Fellow references are due by July 15.

To request nomination forms, please contact AIAA Customer Service at 800/639-AIAA or 703/264-7500 or visit the AIAA web site at www.aiaa.org.

AIAA Seeking National Award Nominations

AIAA is currently accepting nominations for the following awards. Nomination deadline is July 1.

1) Aerospace Contribution to Society Award is presented for a notable contributions to society through the application of aerospace technology to societal needs.

2) Aerospace Software Engineering Award is presented for outstanding technical and/or management contributions to aeronautical or astronautical software engineering.

3) J. Leland Atwood Award is bestowed annually upon an aerospace engineering educator in recognition of outstanding contributions to the profession.

4) History Manuscript Award is presented for the best historical manuscript dealing with the science, technology, and/or impact or aeronautics and astronautics on society.

5) Excellence in Aerospace Standardization Award is presented to recognize contributions by individuals that advance the health of the aerospace community by enabling cooperation, competition, and growth through the standardization process.

6) Gardner-Lasser History Literature Award is presented for the best original contribution to the field of aeronautical or astronautical historical non-fiction literature published in the last five years dealing with the science, technology, and/or impact of aeronautics and astronautics of society.

7) Faculty Advisor Award is presented to the faculty advisor of a chartered AIAA Student Branch, who in the opinion of student branch members, and the AIAA Student Activities Committee, has made outstanding contributions as a student branch faculty advisor, as evidenced by the record of his/her student branch in local, regional, and national activities.

8) Losey Atmospheric Sciences Award is presented for recognition of outstanding contributions to the atmospheric sciences as applied to the advancement of aeronautics and astronautics.

9) Pendray Aerospace Literature Award is presented for an outstanding contribution or contributions to aeronautical and astronautical literature in the relatively recent past. The emphasis should be upon the high quality or major influence of the piece rather than, for example, the importance of the underlying technological contribution. The award is an incentive for aerospace professionals to write eloquently and persuasively about their field and should encompass editorials as well as papers or books.

10) Lawrence Sperry Award is presented for a notable contribution made by a young person to the advancement of aeronautics or astronautics. The nominee must be under 35 years of age on December 31 of the year preceding the presentation.

11) Haley Space Flight Award. This award was established in 1954 as the Astronautics Award and was renamed in 1966 as the Haley Astronautics Award. Today the Haley Space Flight Award, honoring Andrew G. Haley, is presented for outstanding contributions by an astronaut or flight test personnel to the advancement of the art, science or technology of astronautics.

12) Summerfield Book Award is named in honor of Dr. Martin Summerfield, founder and initial editor of the Progress in Astronautics and Aeronautics Series of books published by the AIAA. The award is presented to the author of the best book recently published by AIAA. Criteria for the selection include quality and professional acceptance as evidenced by impact on the field, citations, classroom adoptions and sales.

13) System Effectiveness and Safety Award is presented for outstanding contributions to the field of system effectiveness and safety or its related disciplines.

14) Jay Hollingsworth Speas Airport Award is co-sponsored by AIAA and the American Association of Airport Executives, and Airport Consultants Council. It is presented annually each Spring during the AAAE/ACC Airport Planning, Design, and Construction Symposium to the person or persons judged to have contributed most outstandingly during the recent past towards achieving compatible relationships between airports and/or heliports and adjacent environments. Examples of airport environmental enhancement include noise abatement for aircraft engines; aircraft flight-path modification to reduce time and space requirements for take-off and landing; airport design to improve compatibility with the surrounding area; and airport area ground-transportation systems to increase ease of airport use while minimizing interface with normal lifestyles and the ecosystem.

Nomination forms can be downloaded from the AIAA Web site. List your candidate's accomplishments, keeping in mind the scope of the Award, and include a brief biography, with request references that support the nomination. Upon submission, the AIAA Liaison and AIAA Subcommittees will address the nomination.

Again, the deadline for all above nominations is July 1, 2003.

To request a nomination form or additional information, please contact Ms. Aimée Munyan, Honors and Awards Liaison, at 703-264-7623 or via e-mail at aimeem@aiaa.org.

Call for Section Award Nominations

The AIAA Alabama-Mississippi Section is requesting nominations for the 2002-2003 Annual Section Awards. Nominees for the Section Awards should be individuals who have most closely met the specific award criteria. The awards will be presented at the annual Officers and Board of Director Installation and Awards Banquet, to be held on May 15, 2003.

When putting forth an awards nominee, please indicate:

- The Section Award under consideration.
- The name of the nominee (with proper title)
- The nominee's professional position/title and the name of his/her company or employer.
- The home or business address of the nominee.
- A telephone number and e-mail address of the nominee.

Please provide a reason and information in support of your nomination (one page is sufficient). And as the nominator, please provide us your name, address (including e-mail) and a telephone number.

You may put forward a nomination by mail to:

AIAA AL-MS Section
Attn: Honors and Awards
P.O. Box 7208
Huntsville, AL, 35807.

Or you may submit a nomination directly to the Section Director for Honors and Awards, Mr. Steven Noneman, either by fax at: 256-544-0603, or by e-mail at: steven.noneman@msfc.nasa.gov.

Questions may also be directed to Mr. Noneman at 256-544-2048.

Please submit all nominations by April 18, 2003.

The AIAA Alabama-Mississippi Annual Section Awards are described below:

1) The Hermann Oberth Award is presented to a Section member in recognition of outstanding individual scientific achievement in the fields of astronautics and the space sciences, or for the promotion and advancement of the aeronautical sciences. Presented to the recipient will be a bust of Professor Hermann Oberth and a framed certificate.

2) The Holger Toftoy Award is presented to a Section member in recognition of outstanding technical management in the fields of aeronautics and astronautics. An engraved plaque will be presented to the recipient.

3) The Martin Schilling Award is presented to a Section member in recognition of outstanding service to the Section, such as major contributions to its growth, technical programs, or administrative functions. The award is named for the Section's founding president, Dr. Martin Schilling.

4) The Professional of the Year is presented to a Section member in recognition of extraordinary dedication, creativity, and leadership while engaged in professional work or activity within the aerospace community.

5) The Aerospace Engineer of the Year is presented to an aerospace engineer and Section member in recognition of extraordinary technical ability, creativity, or leadership in the practice of his or her profession.

6) The Young Aerospace Engineer of the Year is presented to an aerospace engineer, 35 years of age or younger, and a Section member in recognition of extraordinary technical ability, creativity, or leadership in the practice of his or her profession.

7) The Software Engineer of the Year, is presented to a Section member in recognition of outstanding extraordinary technical ability, creativity, or leadership in the development of software to support significant aerospace programs or the industry at large.

AGAIN...

***** Please submit all nominations by April 18, 2003. *****

*****A reminder...Applications are being accepted!***

2003 AL-MS Section Engineering Scholarship Program

This scholarship is to promote, (1) a career in the aerospace industry, and (2) the pursuit of a related engineering or science degree at an Alabama or Mississippi university. Applicants must be graduating high school seniors currently living in the state of Alabama or Mississippi, and planning to attend an ABET-accredited university in the state of Alabama or Mississippi in pursuit of an engineering or science degree that would reasonably lead to a career in aeronautics or astronautics.

Three scholarships will be awarded: \$1500, \$1000, \$500.

***** Applications must be returned by March 31. *****

**For information and applications, go to:
<http://www1.msfc.nasa.gov/AIAA/>**

Or contact:

Mr. Victor J. Giuliano at 256-721-2422
(victor.giuliano@pw.utc.com)

Mr. G. Alan Lowrey at 256-544-7684
(gordon.lowrey@ums.msfc.nasa.gov)

Mr. Kevin S. Connell at 256-782-5972
(kconnell@jsucc.jsu.edu)

2003 Scholarship winners will be notified by May 16, 2003.

ASU AIAA Student Chapter Tackles UAV Project for 2003

Athens State's student chapter of the American Institute of Aeronautics and Astronautics (AIAA) has embarked on a challenging technical project for calendar year 2003 - an Unmanned Aerial Vehicle, widely known as a UAV in the defense industry. The ASU project, to be funded with contributions from the AL-MS Section of AIAA, industry donations, and funds raised (and to be raised) from Fiddlers refreshment and food booth operations, will serve as a test bed to demonstrate several critical UAV technologies. The project will be combined with aspects of course requirements within the School of Business Technology Department, namely, Management of Technology and Applied Technology coursework.

The UAV will be based on a simple radio-control aircraft platform, using commercial-off-the-shelf (COTS) components. AIAA student chapter Faculty Advisor, Dr. Wayne McCain stated, "The ASU AIAA UAV project will consist of a lightweight aerial vehicle that will be radio-controlled in flight. The vehicle will be capable of transmitting live video from altitude, precise location using global positioning system (GPS) technology, and will be enhanced for long duration flights (hours)."

"UAV's have been used for sometime in the military services, but the ASU project will investigate the feasibility of their application to homeland security", McCain said. One such UAV, the Air Force's "Predator" recently was news worthy in search and destroy missions regarding potential terrorist groups in Afghanistan. The Predator's mission is basically airborne surveillance, reconnaissance, and target acquisition but for the noted operations, the aircraft was fitted with air-to-ground missile capability.

The first controlled flight of the ASU aircraft is expected by late summer term with advanced experiments to begin in the Fall. "We are attempting to enhance our MOT and BSAT programs with hands-on, advanced technology projects. The UAV project will dovetail well with our technology department goals and those of our many students coming from Calhoun Community College's Aerospace Technology curriculum", said McCain. McCain failed to comment on whether major physical work on the vehicle would be done here on the ASU campus or jointly with Calhoun. Several ASU Applied Technology courses are taught at CCC where extensive advanced laboratory facilities are available.

"One possible use for a domestic UAV would be surveillance over critical facilities such as the Brown's Ferry Nuclear plant or even local water processing plants or other power generating facilities. Constant airborne monitoring of Redstone Arsenal, for instance, could be possible with the introduction of a 'commercialized UAV' that might offer lower up-front and operating costs."

McCain says that the AIAA group includes many students from the Calhoun program and some with on-the-job

experience with local aerospace companies and defense agencies. "We already have a 'jump start' on this project," he said.

For further information concerning the AIAA student chapter at Athens State, email Dr. McCain at drwayne@athens.edu or call 256-233-6501.



Air Force Predator UAV in Flight.

Huntsville International Airport presents
Airshow 2003
 featuring the
The US Navy Blue Angels
The US Army Shadow Warriors
parachute team
Plus numerous civilian acts and military demos.
Saturday and Sunday, March 29-30.

Gates open at 10:00am. Flying will begin at 12 Noon and last until 3:30pm. Gates will close at 4:30pm. There will be static displays and hands-on aviation fun for the whole family. **ADMISSION TO THE AIRSHOW IS FREE.** There will be a charge of \$5.00 per car to park. Food and beverage concessions will be available as well as a variety of novelty, t-shirt and other aviation specialty vendors.

For more information, check online at:

<http://www.hsairport.org/airshow/index.html>

The 10th Annual Great Moonbuggy
April 11-12, 2003

Teams from colleges, universities, and high schools from around the country will be coming to Huntsville, AL to participate in the 2003 competition, to be held on the grounds of the U.S. Space & Rocket Center. The event is inspired by the development of the first lunar roving vehicle, which was designed and tested at NASA's Marshall Space Flight Center (MSFC). The race challenges students to design and build a human-powered vehicle to address engineering problems similar to those faced by the original Marshall Center lunar rover team. The event is sponsored by the MSFC, the U.S. Space & Rocket Center, and AIAA. Additional information can be obtained at the Moonbuggy Website at: <http://moonbuggy.msfc.nasa.gov>.

2002-03 Section Officers and Board of Directors

Position	Name	Business Phone	E-mail Address
Chairman	Arloe W. Mayne, Ph.D	256/881-7124	ArloeWJr@cs.com
Vice Chairman	Thomas M. Hancock	256/722-5555	tom.hancock@msfc.nasa.gov
Secretary	Wanda G. Reece	256/544-2630	wanda.reece@msfc.nasa.gov
Treasurer	Syri Jo Koelfgen	256/544-1870	Syri.J.Koelfgen@msfc.nasa.gov
Membership	Victor J. Giuliano	256/721-2422	victor.giuliano@pw.utc.com
Education	Kevin S. Connell	256/782-5972	kconnell@jsucc.jsu.edu
Public Policy	John R. London	256/544-0914	john.london@msfc.nasa.gov
Honors & Awards	Steven R. Noneman	256/544-2048	steven.noneman@msfc.nasa.gov
Young Professional	Allison Cash	256/650-2738	Allison.Cash@itt.com
Technical	John Lassiter	256/544-3022	John.O.Lassiter@msfc.nasa.gov
Career Enhancement	J. Wayne McCain, Ph.D.	256/233-6501	drwayne@athens.edu
Pre-College Outreach	Victor J. Giuliano	256/721-2422	giuliano@pwfl.com
E-mail Coordinator & Webmaster	Todd Honeycutt	256/430-0753	thoneycutt@stslc.com
Newsletter	Gordon A.(Alan) Lowrey	256/544-7684	gordon.lowrey@ums.msfc.nasa.gov
Evolution of Flight	Alfred M. Wright	256/876-8037	alfred.wright@rdec.redstone.army.mil
National/RAC	Bobby G. Noblitt	256/461-1993	BobNoblitt@msn.com
Supernumerary	Earl H. Pearce	205/467-6349	epearce@alltel.net
Mailings	Eddie T. Lawhorn	256/880-2062	eddie.lawhorn@hsv.boeing.com
Previous Section Chair	Gordon A.(Alan) Lowrey	256/544-7684	gordon.lowrey@ums.msfc.nasa.gov
2000-2001 Section Chair	Robert (Bob) L. Sackheim	256/544-1938	bob.sackheim@msfc.nasa.gov

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