



The San Diego Flyer



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Editor- Nicholas Grela

SR-71 Blackbird An Engineering Marvel

San Diego State University AIAA Student Branch is pleased to present:

AIAA Distinguished Lecturer
Colonel Richard Graham (USAF, ret.)

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The New Internet Newsletter

Nicholas Grela, Newsletter Editor

Welcome to the first ever AIAA San Diego Section e-mail-friendly newsletter. We have recently upgraded our newsletter by offering hyperlinks for your search convenience. If you see the word in blue, click on it and you will be linked to a web page or to another location in the newsletter. The future e-mailed newsletter will offer more links and pictures. If you have any suggestions for improvements to the newsletter contact me at Editor@aiaa-sd.org.

If you would like to receive a mailed copy please contact the section chair at Chair@aiaa-sd.org.

Inspired Anyone Lately?

Greg Marien, Section Chair

Have I inspired a student today? That is the question I have been asking myself lately.

There is a known shortfall of engineers in today's training pipeline. In a recent Aviation Week article, Joseph C. Anselmo (February 5, 2007) lays out his argument for the troubled course ahead. With many engineers retiring there is plenty of upward mobility in jobs. Someday you or I may become a program

manager and there won't be enough people to hire to accomplish our goals. Many other nations around the world seem to be doing a great job recruiting engineering talent. So why is the United States falling behind?

We live in a country in which personal choice is very important to us. Some countries tell their people what they will be doing for the rest of their lives. I certainly don't want to be told what career I am going to pursue. So where does that leave us? What can we do to ensure our country stays competitive in the world market? The only known course is to inspire the younger generation to pursue engineering or other science related fields.

Keep that in mind around your workplace. Volunteer as much as you can when students come to visit and participate when you can in events that involve students. AIAA has about 31,000 members. If each member inspires a single student, at least once per year, to pursue a career in engineering, we could get out of the rut. I know engineers have busy lives, but we can work as a team to accomplish this lofty goal. Just keep asking yourself this question, "Have I inspired a student today?"

Good luck inspiring!



Atlas Program Reunion

Jim Peterson, Memberships

Mark your calendar for the "Fifty Years of Atlas Launches Reunion" celebrating the 50th anniversary of the first launch of the [Atlas](#) vehicle on 11 June 1957. The reunion will be held at the [Scottish Rite Center in Mission Valley](#) on Saturday 21 July 2007, from 1:00 PM to 5:00 PM, in the Corinthian Room.



Join your Atlas Team for this afternoon of warm reminiscence. Present and former employees of General Dynamics, Convair, LMCO, NASA, USAF, Associate Contractors and Sub-contractors are all invited to this reunion. Attendance is estimated to be from 200 to 1000.

For further information, go to the reunion website at: http://members.cox.net/atlas_reunion/

Send your RSVP to:
atlas.reunion@yahoo.com
Subject: Attendance Confirmation

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Supersonic Business Jet – Dinner Meeting

SAMPE and AIAA are teaming up for a joint meeting to listen to the future of supersonic business travel. [Aerion Corporation](#) will be discussing their research and development of aircraft. The talk describes the Aerion SBJ aerodynamic-propulsion optimization and integration, its systems, the planning and progress for development, and Aerion's approach to sonic boom regulation.



Richard Tracy (above, right) earned his Ph.D. from Cal Tech, has a patent on laminar flow wings that was demonstrated on the NASA F-15 several years ago, and was the Chief Engineer for Bill Lear's all carbon/epoxy Lear Fan 2100 of the 1970's and 1980's, which was the first all carbon/epoxy aircraft planned for commercialization. Jim Chase (above, left) was the advanced design leader at Lear Fan.

When: March 22, 2007, starting with a social hour at 6pm

Meeting Location: [Butcher Shop](#)

Get Map [Here](#)

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AIAA Region VI Annual Public Policy Colloquium Air & Space Issues for 2007

Phil Smith, Public Policy

Join Steve Goad, Deputy Director of Public Policy for Region VI, and Steve Howell, Government Relations Manager at AIAA, to review the 2007 AIAA Aerospace Issues, Region VI Public Policy programs, and planning for Congressional Visits Day (CVD). We will also meet Ed Park, the new Grassroots Program Coordinator at AIAA. Ed will discuss CVD and other AIAA programs aimed at increasing Section effectiveness in AIAA Public Policy activities.

If you are interested in becoming more involved in AIAA Public Policy, or are planning to attend this year's 10th annual CVD in Washington D.C. on 17-18 April, this day should be very informative and well worth your time invested.

When: Saturday, 24 February 2007
9:30 a.m. – 3:30 p.m.

Location:
AIAA West Coast Office ([map](#))
999 N. Sepulveda Boulevard, Suite 440
El Segundo, CA 90245

Agenda:
9:00 a.m. Continental Breakfast
9:30 a.m. Public Policy Training, Issues and Section Reports
12:00 p.m. Sandwich Lunch
1:00 p.m. Planning for Congressional Visits Day with Steve Howell and Ed Park

RSVP by Wednesday, February 21st
Phone: 800-683-2422
Email: susana@aiaa.org

High Tech Fair

Phil Smith, Public Policy

The California Education Advocates and I would like to personally invite each of you to participate in an interactive high tech education day that demonstrates the excitement of science and technology to 7th-12th grade students in San Diego County.

In 2006 the event attracted over 50 high technology firms and had 2,500 students and their teachers in attendance. Sponsors include the San Diego County of Education, San Diego City Schools and AT&T.

You can find out more about the High Tech Fair at <http://www.sdsa.org/HTF/index.html>

You can reply to me or directly to Cathy (the HTF director) at:

Cathy Akin
Akin & Associates or Phil Smith
(760) 929-9897
cathy@akinassoc.com psmith@csgf.org

Thanks in advance for considering participating in this event. Together, we can reach hundreds of potential high skilled workers and, it's a great reason to spend a few days in San Diego.

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UCSD Professional Panel

In November, UCSD hosted a panel in which students were able to ask questions to professionals about their educational backgrounds and gain some career advise. Six professionals were on the panel, including Kevin Dunivan and Rick Sozzi from Northrop Grumman, Michael Miller - Daimler-Benz, Dana Pugh - Boeing, Ron Pangilinan, - NAVAIR, and Dr. John Kosmatka - UCSD professor (pictured below). The students were enthusiastic and



even at the close of the panel the conversations endured for another hour. Panel events continue to be one of the best forums for disseminating information to the future members of the profession. Typically, SDSU and UCSD have one each year, so keep an eye out for the events.



The turnout was excellent with a total of 14 persons attending from companies like NAVAIR, Northrop Grumman, Pratt & Whitney Composites, and SDSU. AIAA provided the appetizers, which were delicious, but the best part of the evening was the F-18E Super-Hornet flyoff. Each participant got one shot at flying a number of missions including bombing, intercepting, and refueling. The winner, with 19520 points was Greg Marien who won a \$20 gift certificate.

Young Professionals

Maziar Sefidan, Young Professionals

The AIAA San Diego Section held a social gathering at Dave and Busters on January 24th, 2007. The goal of the Young Professionals social gathering is to provide a relaxed atmosphere for all AIAA members who are relatively new in their aerospace careers to meet, socialize, and network. This is an excellent opportunity for young professionals (either young at age or young at heart) to meet people in San Diego who are in the same field or have similar aerospace/aeronautics interests. In addition to AIAA members, non-members were invited to this social gathering because it allows them to see what AIAA is really all about, see that the San Diego section is very much active, and perhaps become a member themselves.



We invite those who missed this opportunity to meet and network with your fellow young professionals to keep an eye out for the next AIAA San Diego young professionals gathering.

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Membership News

Jim Peterson, [Memberships](#)

Section professional membership stands at 405 as of January 1st, 2007. In addition, the Section has 32 Educator Associate and 114 Student Members.

We would like to welcome the following new AIAA professional members to the San Diego Section over the last three months:

November 2006

Pat Barott	
Thomas Bateman	Northrop Grumman
Bradley Cordill	BAE Systems
Russ Elliott	Northrop Grumman
Michael Kelly	NADEP North Island
John Kohut	Raytheon
Roger Lin	
Tunney Oydna	
Bernard Schwartze	Maxim Systems
Philip Shacter	Northrop Grumman
David Sepucha	Sparta
Steven Testrake	Testrake Aviation Inc

December 2006

David Alexander	GA Aeronautical Systems
Joel Perez	UCSD
Bruce Pittman	Calif. Space Grant Foundation

January 2007

Sherrie Fisher	Goodrich Aerostructures
Michael Francis	General Atomics
William Jackson	SpaceDev
Gustaaf Jacobson	SDSU
Hyonny Kim	UCSD
Robert Maxwell	Retired
Mark Sirangelo	SpaceDev

If you have any questions about membership or advancing your membership grade, please contact Jim Peterson at (858) 279-1940, or E-mail to: jdpete@pacbell.net .

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For those that missed the Miramar Airshow, here are some photos.



Contact Information

Position	Name/Company	Work Phone/Fax	Email Address
Section Chair	Greg Marien, Northrop Grumman	(858) 618-5207	Chair@aiaa-sd.org
Secretary	Kevin Scanlon, Goodrich Aerostructures	(619) 667-1166	Secretary@aiaa-sd.org
Treasurer	Bob Matson	(858) 776-0914	Treasurer@aiaa-sd.org
Vice Chair – Long Range Planning	Penelope Ulander, NAVAIR North Island	(619) 545-3935	ViceChair.LRP@aiaa-sd.org
Vice Chair – Technical	Kevin Burns, Wyle Laboratories	(619) 543-1700	ViceChair.Tech@aiaa-sd.org
Program Arrangements	Jia (Jake) Yu, Goodrich Aerostructures	(619) 691-4087	jia.yu@goodrich.com
Field Trips	Doug Armstrong		Drdougarm@aol.com
Flyers	Zaid Karim		Zaid.karim@navy.mil
Newsletters & E-Bulletins	Nicholas Grela, SDSU	(858) 354-9134	Editor@aiaa-sd.org
Webmaster	Sofia Calica, SDSU	(310) 897-1001	Webmaster@aiaa-sd.org
History & Bylaws	Bill Chana, General Dynamics – Retired Chris Root, NAVAIR North Island	(858) 488-7183 (619) 545-0626	Bill.Chana@aiaa-sd.org Chris.root@navy.mil
RAC VI Delegate	Kevin Burns, Wyle Laboratories	(619) 543-1700	ViceChair.Tech@aiaa-sd.org
Public Policy	Phil Smith	(619) 944-2555	psmith@csqf.org
Membership	Jim Peterson, General Dynamics – Retired	(858) 279-1940	Jdpete@pacbell.net
Honors & Awards, and Career Enhancement	Keith Glassman, NAVAIR North Island	(619) 545-3736	Keith.Glassman@navy.mil
Student Activities	Eric Vigilia, NAVAIR North Island		eric.vigilia@navy.mil
Professional Society Liaison	Warren Johnson, BFGoodrich Aerospace – Retired	(858) 278-1317	wjohnson2@earthlink.net
Pre-College Outreach	Quentin Goss, USAF – Retired	(858) 451-6213	qjgoss@att.net
Educator Associate	Sharon Freeburn	(619) 847-5518	sfreeburn@csqf.org
Young Professionals	Maziar Sefidan		msefidan@hotmail.com
SDSU Faculty Advisor	George Faulkner, SDSU	(858) 270-7354	DJFJR@aol.com
SDSU Student Chair	Sofia Calica, SDSU	(310) 897-1001	sicalica@excite.com
UCSD Faculty Advisor	Dr. Keiko Nomura	(858) 534-5520	knomura@ucsd.edu
UCSD Student Chair	Jenny Rhymer, UCSD		drhymer@mac.com
Rocket Project	Steve Harrington, Flometrics		sharring@flometrics.com



American Institute of Aeronautics and Astronautics - San Diego Section
P. O. Box 881464, San Diego, California 92168

CALL FOR NOMINATIONS – AIAA SECTION AWARDS 2007

The San Diego Section of the American Institute of Aeronautics and Astronautics (AIAA) seeks candidates for the following awards:

Lifetime Achievement - Individual who has made many significant contributions to aerospace engineering over a lifelong career.

Outstanding Achievement by an Aerospace Organization - Local companies that have advanced the state of the art of aerospace engineering or have utilized significant technical and/or managerial innovations in a way that has resulted in exceptional accomplishments.

Outstanding Contribution to Aerospace Engineering - Candidates who have made significant technical contributions such as the technical direction of engineering projects, developing new products, obtaining patents, pioneering new technologies, conducting fundamental research, etc.

Outstanding Contribution to Aerospace Management - Candidates who have made significant contributions to the leadership and management of aerospace companies, organizations or projects.

Outstanding Contribution to the AIAA San Diego Section - AIAA professional or student members who have made significant contributions to the San Diego Section through such activities as service to the membership, service on or to the Section council, supporting section activities, etc.

Outstanding Contribution to the Community - AIAA members who have played a significant role in community activities outside of AIAA. This may include participation in other societies, community service organizations, charities, schools, etc.

Outstanding Contribution to Aerospace Education - Individuals or companies that make a significant contribution to the advancement of Aerospace Education. Can be a teacher, volunteer or even a politician.

Outstanding Contribution to AIAA Region VI - AIAA members who have made significant contributions to the Region VI organization in such areas as conference organization and leadership, technical committee participation, public policy activities, etc.

Outstanding Contribution to AIAA at the National Level - AIAA members who have made significant contributions to the National organization in such areas as conference organization and leadership, technical committee participation, public policy activities, etc.

Outstanding Educator Associate - AIAA Educator Associates who have made significant contributions to enhancing the education of young people in areas relevant to engineering.

Nominations should include:

1. Nominee's name, affiliation, address and phone number.
2. Award Category (from the list above, or write-in categories are acceptable).
3. Nominator's name, affiliation, address and phone number. Nominations will not be accepted without valid contact information which must include a phone number.
4. A few brief paragraphs justifying the nomination and explaining why your nominee is superior to other nominees in that category.

Point of contact for questions and to send award nominations:

Mr. Keith Glassman,
Honors and Awards Chair, AIAA San Diego Section
3198 East Fox Run Way,
San Diego, CA 92111-7721
(619) 545-3736 (W), (858) 565-6526 (H)
e-mail: Keith.Glassman@navy.mil

Awards will be handed out at the Annual Awards Banquet to be held May 17, 2007. Nominations should be received by April 5, 2007 for consideration.

SR-71 Blackbird

An Engineering Marvel

San Diego State University AIAA Student Branch is pleased to present:

AIAA Distinguished Lecturer
Colonel Richard Graham (USAF, ret.)

From 1967 to 1990, the SR-71 served seven U.S. Presidents, the Central Intelligence Agency (CIA), the National Security Agency (NSA), the Defense Intelligence Agency (DIA), the Pentagon, and other government agencies. It provided them with the necessary intelligence to make crucial political and military decisions during the Cold War era.

Col. (Ret) Richard Graham flew the Blackbirds for over seven years on operational reconnaissance missions. He was selected to be the Squadron Commander of the SR-71 unit in 1980 and eventually became the Wing Commander at Beale AFB, which included both the SR-71 and U-2 aircraft. With over 15 years of experience with the SR-71 program, he is uniquely qualified to talk on the capabilities of the SR-71.

The world's fastest and highest flying aircraft was conceived as early as 1958 by the renowned aircraft engineer, Kelly Johnson. The gigantic leap in technology he and his engineers had to overcome at the Lockheed Skunk Works was phenomenal. Built in total secrecy, the first Blackbird flew on April 26, 1962. The Blackbird's only purpose was to gather highly classified intelligence on hostile countries around the world. Flying at Mach 3+ speeds and cruising at over 85,000 feet, the SR-71 could survey over 100,000 square miles every hour, gathering in millions of bits of intelligence. When cruising at over 2,100 mph, with skin friction temperatures reaching 700 degrees Fahrenheit, the SR-71 performed at its very best!

Location and Time of Presentation:

Date: March 1, 2007

Time: 6:30 P.M. lecture starts, gathering starts at 6:00 P.M.

Where: San Diego State University

Room: Casa Real in the Aztec Center

Please RSVP to Sofia Calica (sicalica@excite.com) by Feb 22 to guarantee a seat

Parking: There will be no cost to attend, but please purchase a parking permit upon entering the campus. Visitors may park in Parking Structure 6 on the east side of the university, located off Montezuma Road and East Campus Drive. The cost to park is \$1 per hour; permit dispenser machines are available on levels 1, 2, and 3.