



## Aerospace Sciences Meeting 2006

Kevin Burns, Section Chair

The San Diego Section looked great at the Aerospace Sciences Meeting in Reno. All our people were there to receive their awards. I met with Geoffrey Butler of BAE Systems and Jake Yu of Goodrich Aerostructures at the Associate Fellows dinner to congratulate them.



New Associate Fellows Geoffery Butler (left) and Jake Yu (right) with Section Chair (center)

In a grand ceremony at the hotel theater, Professor Plotkin received the Atwood Award, and Phil Smith was honored with a first place finish for his work in Public Policy. From what I saw at the conference, Phil is well on his way to another high level finish for this year. I met with Professors Plotkin and Katz in the exhibit area where the Cambridge University Press prominently displayed their book "Low-Speed Aerodynamics." I also sat in on a paper titled "History of Excellent Engineering in Spacesuits" which was presented by Akasha Khalsa, one of our student members from SDSU. Over all, it was a wonderful conference with 11 section members attending and 4 papers from San Diego. We will have more pictures in the next newsletter as some of them were not ready as we went to press.

## National Engineers Week

Warren Johnson, AIAA Professional Societies Liaison

AIAA members should make plans now to participate in National Engineers Week 2006 (NEW2006) in San Diego. The purpose of National Engineers Week is to increase awareness of engineering's contributions to our quality of life as it unites engineers, and the public in a celebration of innovation and technology. The major event for NEW2006 in San Diego will be the Awards Banquet. This banquet will feature a keynote speaker, and the presentation of awards for excellence to local engineers and projects. The banquet will be held on Friday, February 24, 2006 at the University of San Diego – Joan Kroc Institute for Peace and Justice, 5998 Alcalá Park, San Diego (Parking is free).

The keynote speaker will be Dr. David Hayhurst, Dean of Engineering, at San Diego State University. The cost of attending the banquet is \$37.50 per person. Attendees will have entrée choices of chicken, fish or a vegetarian plate. Reservations can be made by contacting Warren Johnson, AIAA Professional Societies Liaison by phone (858-278-1317) or by e-mail ([wmjohnson2@earthlink.net](mailto:wmjohnson2@earthlink.net)). Reservations should be accompanied by the number, names and meal choices of those attending, and a check covering reservation costs. Please come and join us at the AIAA banquet table!

## The Best in San Diego Aerospace

Keith Glassman, Honors and Awards

Each year the San Diego section holds a gala awards banquet that highlights the achievements made by our local aerospace talent. Attendees at the banquet all say it is an exciting event where they can see the best of what their peers are doing. AIAA relies on our membership to tell us what is going on, and where the best accomplishments are made. You can have a say in what achievements we will recognize this year. We invite you to respond to our call for nominations.

Nominations should be received by March 25, 2006 for consideration.

## SDSU Rocket Project

Nils Sedano, Project Technical Lead

The SDSU Rocket Project forged new ground in their quest to build their next rocket this month. The project is continuing to develop, and the vehicle is being readied for a static fire test. The structure is done, tanks are mounted, valves, actuators and fuel lines are being attached, and the engine is being readied. The project is going on in two locations, both in Flometrics' shop in Solana beach, and on the San Diego State University campus. The Project was able to get space on campus to work in and continue their endeavor. This space was graciously set apart by the Engineering Department and SDSU, and is located in the row of Engineering Labs adjacent to the Engineering building. Currently the static test stand is being cleaned and prepped there to serve in purging the LR-101 from rust and other contaminants.

The Project workdays are scheduled twice a week, one on Thursday at 4 p.m., and one on Sunday at 11 a.m. The project needs your help. Some critical elements are needed by the students. If you or anybody you know is able to provide these or something else, please contact Victor Sanchez, project manager, at rocketsanchez@gmail.com .

- Liquid Oxygen, Liquid Nitrogen and Dewar rental.
- Helium (if possible a 5000psi tank)
- De-rusting services. The Rocket engine needs to be de-rusted in clean room conditions. If you know of a company which may help, please contact us. Also, 500grams of ammonium citrate for a de-rusting solution.
- Aluminum sheet (anything that is close to .02")

If you wish to help the project but are unable to provide specific components you can still help by providing funds to obtain them. Please make any donation to the AIAA San Diego professional section, and indicate it is meant for the SDSU Rocket Project. Any donation to a non-profit organization is tax deductible.

Finally, if you are available please come to the SDSU AIAA general meeting on February 14 (11am, in room Eng326, at SDSU), where Joey Brown (former SDSU proj. mgr., now alum) will be presenting about his experience in working at NASA JPL, and the exciting projects that are going on. Of note is the LISA project, tasked with detecting the gravitational waves permeating through our universe.

## Pre-College Outreach

Quentin Goss, Pre-college Outreach Chair

In the last month, the San Diego section has received about five requests for speakers in local schools. If anyone is interested in addressing a classroom full of students, please contact the Section Chair who is putting together a list of volunteers that can be called upon.

## AIAA Conferences in San Diego

11-15 June - 24th AIAA International Communications Satellite Systems Conference (ICSSC) and 4th Annual International Satellite & Communications (ISCe) Conference and Expo

26 - 29 Jun 2006 - 4th International Energy Conversion Engineering Conference and Exhibit (IECEC)

## Membership News

Jim Peterson, Membership Chair

Section membership stands at 408 as of January 1<sup>st</sup> 2006. We would like to welcome the following new AIAA professional members to the San Diego Section:

### November 2005

Paul Belloch	ATA Engineering
Anastacia Cardinal	
Christopher Covell	Northrop Grumman
Robert Ekstrom	BAE Systems
Ronald Estacio	
Michael Larsen	Information System Labs
Ryan Marquez	
Gary Reynolds	
Robert Rutherford	U.S Navy
Geo Sadiasa	
Chris Serry	
Jeffrey Stebel	Lockheed Martin Corp
John Swihart	Swihart Consulting

### December 2005

Dan Hearn	Retired
Philip Harsha	Retired
Shozo Koshigoe	Calif State Univ
Jonathan Ramba	
Paul Whitten	Dynamics Instruments Inc

### January 2006

Richard Beyerle	Pentair
Andrew Cianciotto	Northrop Grumman
Wayne Lu	
Wilbur Trafton	

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

## Calendar

Feb 9	Distinguished Lecturer at SDSU
Feb 24	National Engineers Week Banquet
Mar 16	Professional Section Dinner Meeting
Mar 29	Judging for the San Diego Science Fair
Apr 4-5	AIAA Congressional Visits Day

## Public Policy

Phil Smith, Public Policy Chair

It's not too soon to start planning. The Public Policy Committee has set the date for the 9th Annual AIAA Congressional Visits Day. This year's event is planned for 4-5 April 2006. Pre-CVD briefings will take place at the Hamilton Crowne Plaza in Washington, DC, and visits and the AIAA Congressional Reception will take place on Capitol Hill. What's our goal? Through face-to-face meetings with Members of Congress, congressional staff, key Administration officials, and other decision-makers, Congressional Visits Day raises their awareness of the long-term value that science, engineering and technology bring to America.

In other news, the FAA is getting into space and NASA is looking at the future of aeronautics. The FAA is proposing new rules specifically relating to crew and passengers on commercial space flights. These proposed rules focus on encouraging, facilitating, and promoting space tourism in a way that continuously improves safety. Meanwhile, at the 44<sup>th</sup> Aerospace Sciences Meeting in Reno, NASA Associate Administrator for Aeronautics and Astronautics Dr. Lisa Porter outlined the restructuring of NASA's aeronautics programs. NASA's Aeronautics Research Mission Directorate has released a "Request for Information" which closes at the end of January, for each of its three research programs. The purpose of the RFI is to solicit external interest in collaborative public-private research partnerships for each Research Program. The selected research collaborations will have an initial period of performance of five years. The three research programs are: **Fundamental Aeronautics Program:** The top-level goal of this program is the development of system-level, multi-disciplinary capabilities for both civilian and military applications. This program provides long-term investment in research to support and sustain expert competency in critical core areas of aeronautics technology.

**Aviation Safety Program:** This program will build upon the unique safety-related research capabilities of NASA to improve aircraft safety for current and future civilian and military aircraft, and to overcome aircraft safety technological barriers that would otherwise constrain the full realization of the Next Generation Air Transportation System. This program will also provide long-term investment in research to support and sustain expert competency in critical core areas of aviation and aircraft safety.

**Airspace Systems Program:** The top-level goal of this program is the development of high capacity, efficient, and safe airspace and airportal systems that will enable the Next Generation Air Transportation System, as defined by the Joint Planning and Development Office.

Any one looking for collaboration opportunities should contact the Public Policy Chair, Phil Smith.

### **From the Chair . . .**

Kevin Burns, Section Chair

Things are moving very quickly in the section activities. We are fortunate to have a very active council and are still looking for more volunteers. As you can see from the information in this newsletter, the next couple of months are going to be busy. The areas we are most busy with are Public Policy and Education programs. Some of these are working together. An example of this is the invitation that AIAA received to attend the opening of the Rendezvous Science Center in La Jolla through the Public Policy Chair. Through the public policy of promoting the local funding of these education centers, we found that they have much to offer beyond their own location. We are now in discussion with Los Altos School, and other organizations to promote a national pilot project in teaching science and math through an aerospace education program for grades 3 through 6 by the Rendezvous Science Center. This is groundbreaking work. Los Altos School is

located in a residential, multi-ethnic, and multiracial community in South San Diego. English language learners (Spanish) comprise 56% of the student population, 71.1% are on Free and Reduced Lunch Program, minority students make-up 95% of the student population, and the school has a mobility rate of 31.5%. Los Altos is a Title 1 school with 1 suspension and 2 retentions. This means that it is having a very tough time meeting state and federal education standards. We hope to increase the abilities of students in math and science through this intensive aerospace education program. We are currently working on helping them find grant funding (about \$40,000.00) to complete this program.

In addition, the local section has provided the school with a training program for all their teachers on how to integrate other fun learning projects into the classroom. A large box of materials was received from the national office, and the Section Chair and the Educator Associates Chair teamed together to provide the training and to sign-up the teachers in the AIAA's Educator Associate program.

This is truly an exciting time for the San Diego section. With the memorandum of agreement firmly in place with San Diego State University, the student rocket project is progressing well. The annual Greater San Diego Science and Engineering Fair will be upon us before you know it. Volunteers for judging should contact the Pre-college Outreach Chair Quentin Goss.

It is really not too soon to be planning for next year's goals and events. Visit the section website at <http://www.aiaa.org/sections/sd/> to find the latest section news, to download the minutes of the council meetings, find out whom to contact, and to submit suggestions for updates to the website.



# San Diego State University Section Meeting

Thursday, February 9<sup>th</sup> 6:00-8:00 pm

## *Thomas Morgenfeld*

*AIAA Distinguished Lecturer*

Thomas Morgenfeld has many notable achievements. He flight tested the F-117 and YF-22A aircraft, was the Chief Test Pilot on the Joint Strike Fighter (JSF) program, and performed the first flight test on the X-35. In addition to being a top test pilot, Mr. Morgenfeld was a Navy Fighter Pilot with two combat tours, over 100 combat missions and over 500 carrier landings in the F-18 Corsader jet. Between combat tours, Mr. Morgenfeld earned his Master of Science Degree in Aeronautical Engineering at the United States Naval Postgraduate School. He was named Chief Test Pilot for Skunk Works in 1991 and promoted to Director of Flight Operations in 1999.



Mr. Morgenfeld will be sharing many of his X-35 test experiences and technical applications during his presentation. He test piloted three versions of the X-35. Mr. Morgenfeld is an excellent, enthusiastic, and enjoyable speaker and was highly recommended by your San Diego Section officers.

### **Location and Time of Presentation:**

*Where:* San Diego State University

*Room:* Presidential Suite in the Aztec Center

*Date:* February 9<sup>th</sup>, 2006

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

There will be no cost to attend, but please purchase a parking permit upon entering the campus.\* The lecture is open to the public, so anybody can attend. For any further questions email [NGrela@gmail.com](mailto:NGrela@gmail.com) or call (858)-354-9134.

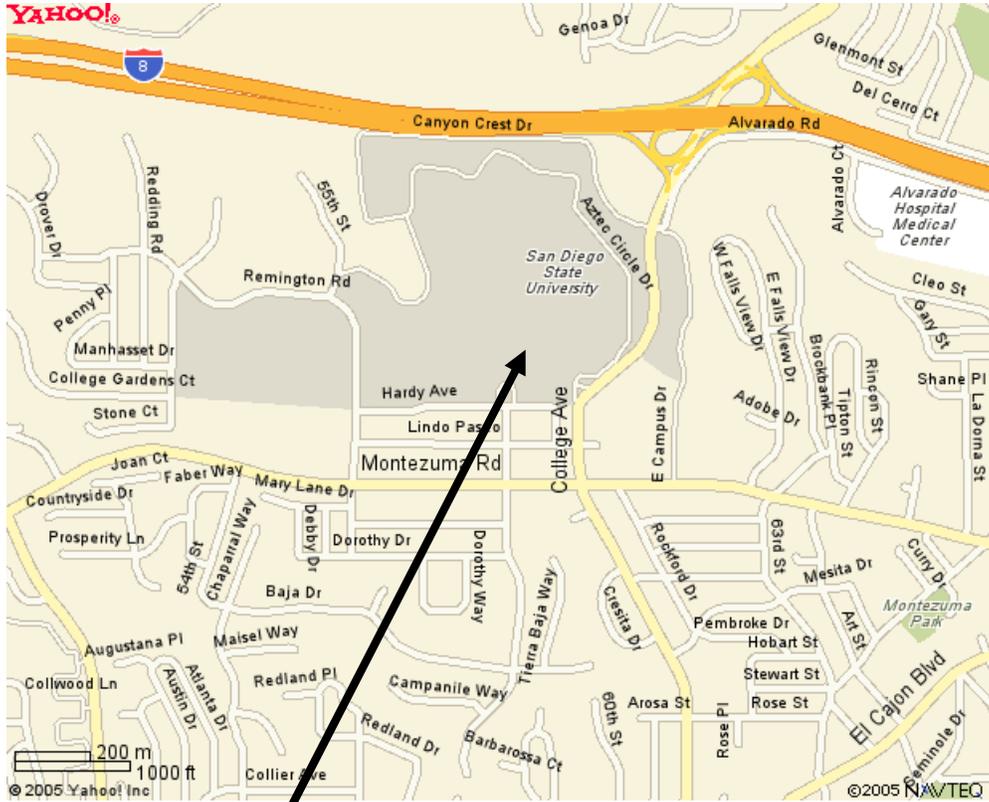
\*Visitors may park in [Parking Structure 6](#) on the east side of the university, located off Montezuma Road and East Campus Drive. The cost to park is \$1 per hour. Parking Structure 6 has permit dispenser machines on levels 1, 2, and 3. If visiting campus for the day, visit the [Parking Information Booth](#) at the Chemical Sciences Laboratory building

**Reference attached map**  
**All facilities are handicapped accessible.**

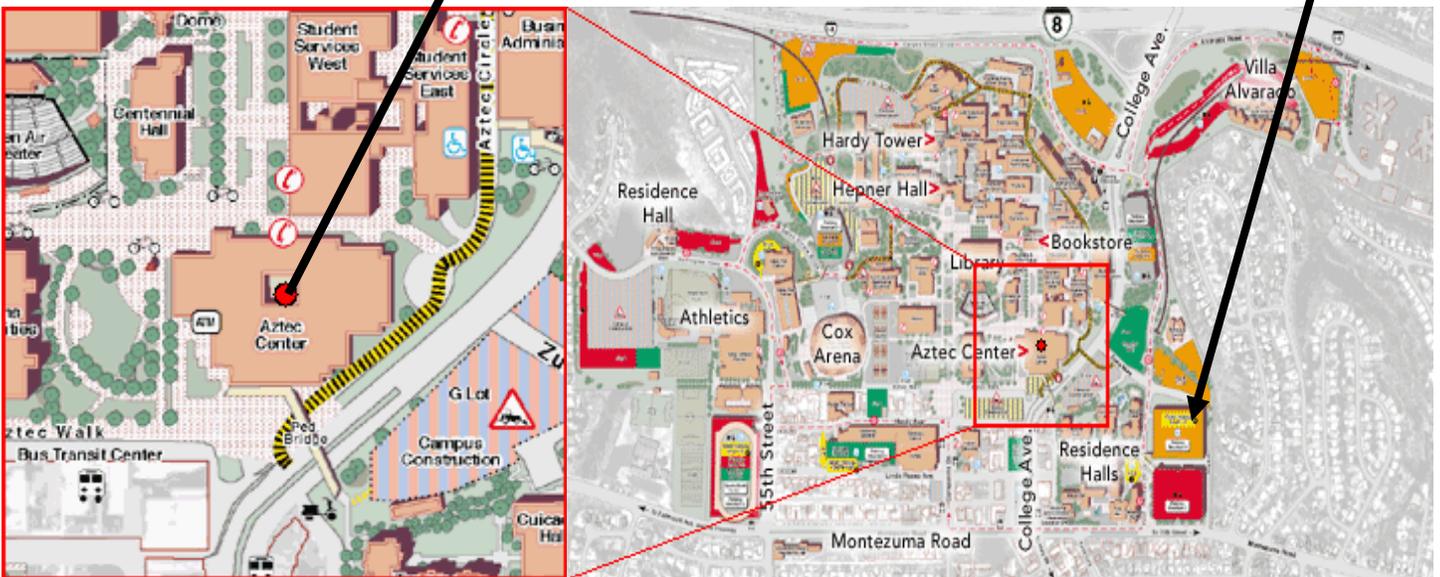
# AIAA SDSU Section Meeting

February 9<sup>th</sup> 6:00 pm

San Diego State University, 5500 Campanile Drive, San Diego, CA 92182



Parking Structure 6





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

## San Diego Section Meeting

Thursday, March 16<sup>th</sup> 6:00-8:00 pm

### *Margaret Ringenberg*

*Pilot*

#### Yes, We Can

Margaret Ringenberg took her first airplane ride at the age of seven from a farmer's field in rural Indiana. She was called to be a WASP in 1943, became a flight instructor in 1945, and has flown as a commercial pilot ever since. She has been racing since 1957 in various races including the Powder Puff Derby, the Classic Air Race, the Grand Prix, the Great Southern, the Denver Mile High, the Illi-nines Air Race, the Kentucky Air Derby, the Indiana F.A.I.R., the Michigan SMALL Race and others. She has won numerous times and has over 150 trophies. From the time she soloed in 1941 until she completed the 'Round-the-World Air Race in 1994 at the age of 72, she has logged over 40,000 hours. She has been married to banker, Morris Ringenberg, for over 54 years. They have two children and five grandchildren. She has been active in Girl Scouting, church activities, and museum work and has been a member of the 99s, an organization of women pilots, since 1945. She is currently flying and speaking about her experiences. In 1998 she addressed 1000 cadets at the Air Force Academy in Colorado Springs, Colorado, and received a standing ovation. A chapter was devoted to her in Tom Brokaw's bestseller, *The Greatest Generation*, and she has written a book of her own, *Girl's Can't Be Pilots*. In November of 1999 Margaret received the NAA Elder Statesman in Aviation award in a presentation ceremony in Washington D.C., and in December she was honored in *Woman Pilot Magazine*. In March of 2001 she flew a race from London, England, to Sydney, Australia.



Yes, We Can, Margaret talks about the adventures and challenges that faced the pioneers of female aviation as a pilot since 1943. She also discusses flight safety and aiming high and achieving your goals.

#### ITALIAN BUFFET

**Cost: \$10.00 Members and Guests**

**\$5.00 AIAA Students.**

**Social: 5:30-6:00**

**Presentation and Buffet: 6:00**

**Location: Wyle Labs (formerly AI-ES) Training and Conference Center**

**Reference attached map**

**RSVP by 13 March to Greg Marien E-mail: [greg.marien@ngc.com](mailto:greg.marien@ngc.com)**

**Phone: (619) 248-6246 (Please leave message with your phone number)**

**Meeting is on the fourth floor. Take the elevators in the lobby and all facilities are handicapped accessible. Free parking.**

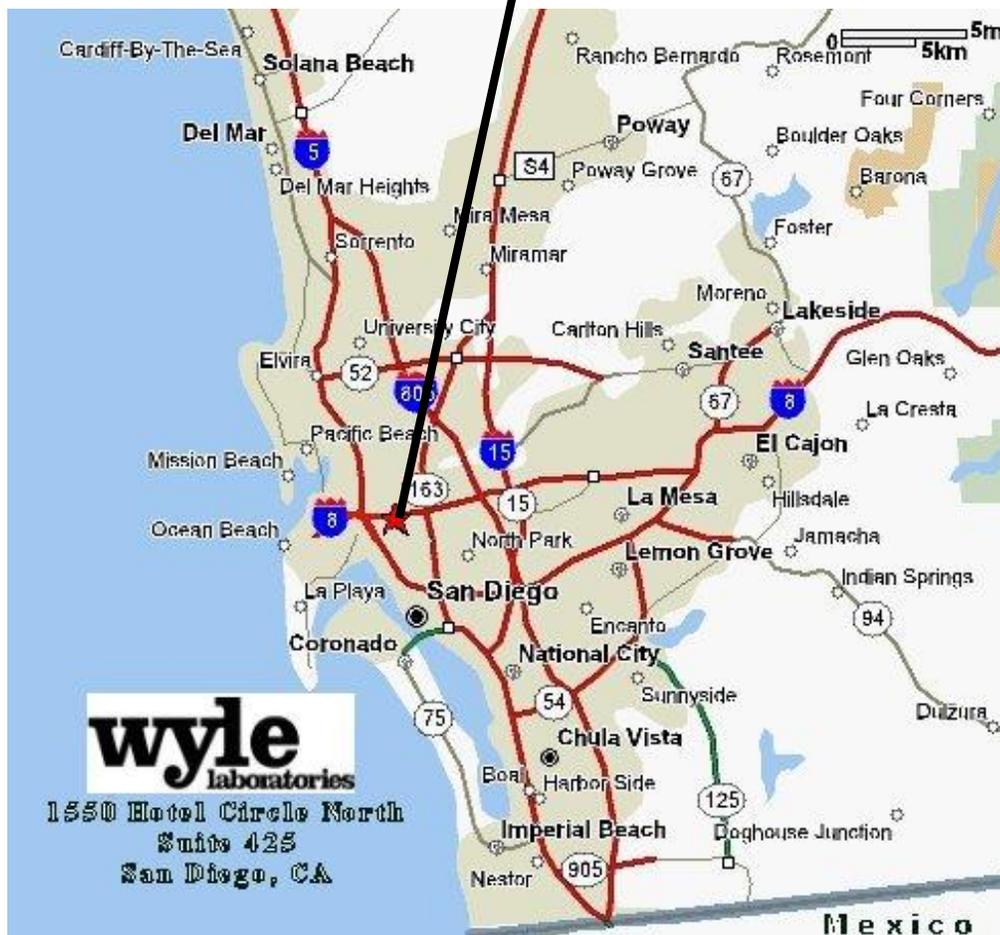
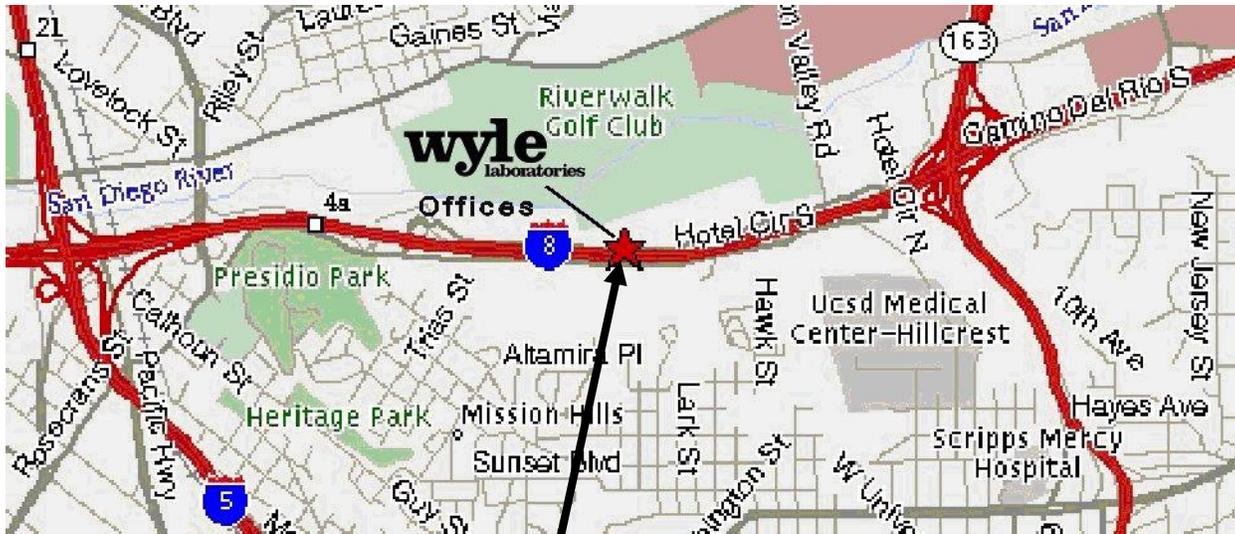
# AIAA San Diego Section

# Dinner Meeting

March 16<sup>th</sup> 5:30 pm

1550 Hotel Circle North, Suite 425, San Diego, California 92108-2910

(The meeting room is on the fourth floor; take the elevators in the lobby and all facilities are handicapped accessible.)





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

## **CALL FOR NOMINATIONS – AIAA SECTION AWARDS 2006**

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

**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 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 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** - Educator Associates who have made significant contributions to the future of aerospace engineering by enhancing the education of young people in areas relevant to engineering. This award is part of the AIAA Educator Associates Program.

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.
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 18, 2006. Nominations should be received by March 25, 2006 for consideration.

Position	Name/Company	Work Phone/Fax	Email Address
Section Chair	Kevin Burns, Wyle Laboratories	(619) 543-1700 (619) 543-1707	kevin.burns@wylelabs.com
Secretary	Anthony Jones, Hamilton Sundstrand Power Systems	(858) 627-6238	tony.jones@hs.utc.com
Treasurer	Penelope Ulander, NAVAIR North Island	(619) 545-3935	penelope.ulander@navy.mil
Vice Chair – Long Range Planning	Greg Marien, Northrop Grumman	(858) 618-5207 (858) 618-7139	gregmarien@yahoo.com greg.marien@NgC.com
Vice Chair – Technical	Chris Root, NAVAIR, North Island	(619) 545-0626 (619) 545-0887	chris.root@navy.mil aeroroot@cox.net
Program Arrangements	Jia (Jake) Yu, Goodrich Aerostructures	(619) 691-4087	jia.yu@goodrich.com
Field Trips	Carl Tedesco, Flometrics	(858) 720-9226 (858) 720-9224	ctedesco@flometrics.com
Flyers	Vacant		
Newsletters & E-Bulletins	Katherine Miller, SDSU	(619) 925-3378	k_dmiller@hotmail.com
Webmaster	Daniel Kraus, SDSU	(619) 210-4218	sdaiaa@yahoo.com baderit@cox.net
History & Bylaws	Bill Chana, General Dynamics - Retired	(858)488-7183	None
RAC VI Delegate	Nigel Barker, Goodrich Aerostructures	(619) 691-2568	Nigel.barker@goodrich.com
Public Policy	Phil Smith	(619) 944-2555	psmith@csgf.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	Nils Sedano, SDSU	(619) 961-5568	Nilssedano@hotmail.com
Professional Society Liaison	Warren Johnson, BFGoodrich Aerospace – Retired	(858)278-1317	wmjohanson2@earthlink.net
Pre-College Outreach	Quentin Goss, USAF – Retired	(858)451-6213	qjgoss@att.net
Young Professionals	Kevin Scalon	(619)667-1166	Krscanlon@hotmail.com
SDSU Faculty Advisor	George Faulkner, SDSU	(858)270-7354	DGFJR@aol.com
SDSU Student Chair	Nick Grela, SDSU	(858)354-9135	Toaster35@cox.net
UCSD Faculty Advisor	Dr. Keiko Nomura, UCSD,	(858)-534-5520	knomura@ucsd.edu
UCSD Student Chair	Matthew Napoli, UCSD	(909)702-6678	mnapoli@ucsd.edu
Educator Associate	Amelia Chapman, SD Aerospace Museum	(619)234-8291	achapman@sdasm.org



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