



Leadership Letter

Kevin Willett, Section Chair

The passing of Captain Faulkner is an enormous loss to the San Diego Section. He was a tremendous mentor to many students and professionals over the last 30 years. He will be greatly missed at the Council meetings, but his legacy will live on in the work that is performed by the section.

We had a great finish last year with the Awards Banquet. Wonderful camaraderie, good food, excellent presentations, and plenty of well earned awards.

The start for this year has been a bit slow, with no activities planned for July, August, and September; but the Council has been busy with meetings every month and planning taking place to insure that the section just gets better and better.

We had good representation at the Space Conference in Pasadena again this year. Congratulations to Sharon Freeburn for her great job with Education Alley. Once again the Education Alley was packed with students and teachers who were equally thrilled with the mix of exhibits, demonstrations, engineers, and an Astronaut.

Over the next couple of months I am looking forward to talking to you either at one of the Council meetings (the second Wednesday of every month) or at the section meeting. An announcement on the next section meeting will be released soon.

Captain (USN Ret.) D. George Faulkner, Jr.

CAPT Doc George Faulkner passed away on October 5, 2009

Captain George Faulkner started out with Model airplanes as a child and went on to graduate as a Navy Officer from Duke University with a BS degree. His early Navy career included flying Bearcats and a tour of duty in Korea flying the F4U Corsair off aircraft carriers.

After studying Aeronautical Engineering at the Navy Postgraduate School and Princeton, Captain Faulkner returned to squadron duty as a Maintenance Officer on the Navy's oldest operational jet fighter. Next, as an Aeronautical Engineering Duty Officer, Captain Faulkner devoted his time to R&D and operational support. After starting and serving as the first chair of the Aeronautics Committee of the Engineering Department, he served as Chief of Naval Operations at Naval Air Systems Command (NAVAIR).

Upon retirement from the Navy in 1978, Captain Faulkner returned to San Diego and taught in the Aerospace Engineering Department at SDSU for 14 years. The high points included teaching the capstone course in airplane design, and serving as faculty advisor for the AIAA Student Branch for a quarter century, which included advising the First Place winning Design, Build, Fly (DBF) competition team. Captain Faulkner loved working with students and the DBF SDSU-UCSD Competition Trophy is named in his honor.

Cards to his wife Doris and her family may be sent to 2946 Murat St, San Diego, CA 92117-2446.

Former SDSU Student Finds Success in Air Force

Kevin Burns, Newsletter Editor

Lieutenant Sofia Calica, a former student at SDSU, an active member of that student section, and a webmaster for the professional section; was kind enough to keep us informed of her activities. Sofia graduated in the ROTC program with her degree in Aerospace Engineering, and her first assignment with the U.S. Air Force was to Cape Canaveral Air Force Station where she is working on the Atlas launch team. Earlier this year she wrote that, "Our long awaited launch was a success on the night of April 3rd. We haven't launched since last April (2008) and our first attempt last month, on March 17, resulted in a scrub only a couple hours from launch. We worked a lot of hours to get the rocket back to good health for our launch."



At the end of June, she let us know that Atlas just launched again. "Although this launch flow was supposed to break the record of the fastest turnaround for an Atlas V, it actually didn't. But, it definitely was a compressed flow and we were all very busy since the last launch. Fortunately for all of us at the Cape, it was an uneventful launch countdown (that is very good in the rocket business) with the exception of the weather. As you all know, NASA, are the big shots in space, so they gave us 3 instantaneous launch opportunities within a one hour window. With the expertise of ULA (United Launch Alliance), the Atlas rocket launched right on time during the final instantaneous opportunity, thereby sending NASA back to the moon."

Sofia wrote that this is an amazing mission. There were two satellites connected to the upper stage Centaur. The top one, called LRO -- Lunar Reconnaissance Orbiter, which separated not long after flight and reached the moon June 23rd. The second satellite is called LCROSS -- Lunar Crater Observation and Sensing Satellite. It stayed attached to the Centaur, took control, and made a course to the moon. But that's not the coolest part. The



LCROSS satellite released itself from the Centaur and observed while the Centaur crashed into the moon. Its job was to create a crater inside of another crater in search of ice/water. Following minutes behind the Centaur, the LCROSS satellite sent data back to Earth prior to it plummeting into the moon.

Lt. Sofia Calica was recently mentioned in the Spaceport News as being one of the distinguished nominees for the Society of Women Engineers' Woman Engineer of the Year Award. She is now a Senior Member in the Cape Canaveral Section of the AIAA where she publishes the section newsletter.

San Diego Section Tours Goodrich Aerostructures

Cody Krzton-Presson, Vice-chair, Planning

Retirees, businessmen, and students all learned from the June 25th tour of the former Rohr Industries – now Goodrich Aerostructures – located in Chula Vista. Through the tour, they learned that Goodrich is the leading independent supplier and integrator of nacelle, pylon and flight control surfaces and the partner of choice for large commercial, regional jet, and military aircraft customers around the world.

Those on the tour were able to watch the assembly and testing of engine nacelles. The nacelles are made through a process of prepreg layup, filament winding, autoclave curing, pultrusion, and vacuum assisted resin transfer molding. As vividly shown on this month's cover of Aerospace America, the nacelle systems for the Airbus A350 XWB and the Boeing 787 Dreamliner are both contracted with Goodrich.



With each member outfitted with safety glasses and earplugs, the group toured the manufacturing facility where aluminum skins are stretched, stamped, and annealed. There were large storage areas for the molds and tooling to make components for aircraft - from the newest airplanes to legacy aircraft models that are still in use, such as the 737, which remains as the world's most popular airplane.



The tour also covered a former engineering area which at one time overlooked the factory floor; the composite material molding area; and finished up with the Research and Development laboratory. The knowledgeable tour guide spoke about how the “Lean” development and production methods continuously improve product build hours and flow times.

Some of the interesting items seen on the tour included the composite material system, which is a naturally damped multi-layer composite sandwich structure filled with small holes for acoustic noise dampening around the engines. Those in attendance were also able to lift ducting structures and other components which, in addition to being very lightweight, are extremely rigid in order to resist aerodynamic forces. At the Research and Development laboratory, the group learned that Goodrich’s composite design and development efforts extend well beyond satisfying acoustic requirements. The company has the expertise, equipment and facilities to develop multi-functional materials and structures that provide strength, minimize the effects of fire, and absorb or reflect electromagnetic energy.

Students were interested to learn that Goodrich Corporation offers an array of challenging career opportunities as well as an aggressive internship program that few other companies can match. Interns usually get to choose between working in a single area of technology, rotating through each of the work environments, or a combination of both.

National Section Awards Announced

Keith Glassman, Awards Chair

The October 5th announcement from the AIAA Headquarters revealed many awards for the San Diego AIAA Section. San Diego was awarded 2nd Place for the Career Enhancement Award (Keith Glassman), 2nd Place for the Membership Award (Jim Peterson), 3rd Place for the Harry Staubs Pre-College Outreach Award (Phil Smith), and we received an honorable mention for Outstanding Large Section (Kevin Willet).

Congratulations to all those that put forth the outstanding effort during the 2008-2009 year.

SDSU Rocket Club

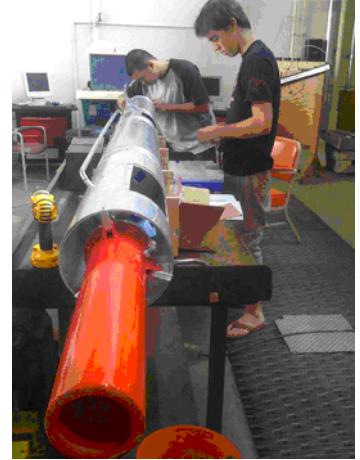
Carl Tedesco, Project Adviser

The SDSU rocket team is underway building their next generation of liquid propellant rockets. The latest rocket, named Monty’s Revenge 2, is powered by an ablative cooled motor and runs on liquid oxygen and alcohol. It is pressurized with helium using a blow-down system. The rocket produces 660 lbs of thrust. The students have made the switch from pneumatically actuated valves to computer controlled servo valves. The rockets airframe and propellant tanks are made from aluminum, so this rocket should have the best mass ratio yet, propelling it

close to 30,000 feet in altitude and speeds in excess on Mach 1! The students are planning to static test the rocket in the next few months. If all goes well a flight test is planned for December.

On September 15th, the SDSU rocket was on display at the AIAA

Space 2009 conference in education alley in Pasadena, CA. The students shared a booth with students from UCSD who were displaying their hybrid rocket work. The students were fortunate enough to meet astronaut Buzz Aldrin there (reference the picture). Later that evening the students got to answer questions about their rocket and network with industry leaders at the Future Leaders reception hosted in the main hall.



The SDSU rocket project serves to educate engineering students in the real world skills needed to design, build, test and fly liquid propellant rockets. The students meet regularly, outside of class, to design and build the rocket and learn about real-life rocketry and engineering while gaining hands on experience. Special thanks to our supporters: Flometrics, San Diego AIAA, Netburner, and the SDSU Aerospace Department. The team would welcome additional support from the local aerospace industry.

Wyle Documents Education Alley

Wyle, a San Diego supporter of AIAA events exhibited at the Education Alley program of the Space Conference in Pasadena. While there, Wyle called in their film crew and recorded the interaction and views of the students going through Education Alley. The finished product should be ready by the end of the year.

Membership News

Jim Peterson, Membership

Congratulations to our newest Associate Fellows Steven J. Harris of Northrop Grumman Corporation, and Sutanu Sarkar of the University of California San Diego. The announcements were released in September.

Section professional membership stands at 367 as of Oct 1st, 2009. In addition, the Section has 44 Educator Associate Members and 82 Student Members.

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

April 2009

Bryan Donovan	SDSU
Jeffrey Kacala	Naval Postgraduate School
Matthew Noble	
Zachary Thicksten	SN Corp
Stephen Wall	JPL
Dallas Wilfong	
Roy Yelton	SN Corp
Carsten Gehrke	Rolling Horse Ranch Technical Services

May 2009

Matthew Baur	
Armando Calabrese	UCSD
Emory Chenoweth	CSC
Akhilesh Jha	
Christopher Sam	
Matt Smiley	
David Strobel	Space Micro Inc

June 2009

Alexander Dinh	UCSD
Daniel Lee	UCSD
Nicholas Leutza	SDSU
Timothy Lewis	UCSD
Thomas Mandler	SDSU
Edgar Marquez	UCSD
Octavio Ortiz	SDSU
Austin Reed	DR Technologies

July 2009

Tricia Sur	ATA Engineering
Christian Contreras	Northrop Grumman Corp

August 2009

Frank Taylor	SN Corp
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September 2009

Clint Gile
William Kromydas
John Warner
Paul Wynns

Sparta

New members are invited to attend an AIAA dinner meeting for free within the first 180 days of membership in the San Diego Section.

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.

UCSD Student Rocket Projects

Steve Harrington, Project Adviser

In order to help the Aerospace Engineering Senior design students at UCSD integrate their coursework and give them some real world project management and system engineering skills, they all launch rockets with individualized experiments on them. Each group of 4-5 students were responsible for designing building, testing and flying a 50 lb thrust hybrid rocket. Each group selected two variables to measure; such as stagnation pressure, stagnation temperature, or propellant tank temperature. They then predicted the expected values during their flight. They were graded on the accuracy of their predictions, and the complexity of their proposed experiment. If their rocket did not recover, or the electronic data acquisition system was smashed or failed, they needed to write a failure analysis report.

On June 6th, they had 6 launches, with data collected successfully on 4 of the launches. Some notable successes included the first launch, wherein the students in 'Team Phoenix' predicted and then measured the nitrous tank pressure vs time. They predicted that the tank would run out of liquid nitrous after 3.24 seconds, and in practice the nitrous ran out at about 3.4 seconds, so they did a pretty good job.

During the previous quarter, Steve Harrington showed the students movies about rocket failures, including the SpaceX stage separation anomaly and team 'Blue Steel' did an experiment on stage separation where they used a string pot to measure the separation rate of the nosecone from the main stage. They also calculated the expected gas pressure from the burning pyrodex and the resulting impulse delivered to the nosecone. They had pretty good agreement between the measured separation rate and the predicted one based on the amount of Pyrodex and the volume of the space in between the nose cone and the rocket.

Another team calculated the maximum acceptable spin rate that would allow all the liquid nitrous to be used and canted the fins to achieve that spin rate. Unfortunately

the propellant tank was not completely full at takeoff due to a leaky O-ring, so they did not get a full spin rate.

Another team 'Tadpole' had a different propulsion problem where the rocket lifted off with too much thrust which appears to have damaged the electronics and they ended up writing a comprehensive failure analysis. Here is an excerpt:

= K.I.S.S. =

Keep It Simple, Stupid. The more complex the rocket becomes, the more room there is for error. Initial brainstorming ideas may be very ambitious, but the final design should be kept as simple as possible.

= Test Early and Often =

Components should be tested to make sure they work independently as well as together with the other components as early as possible. The earlier testing is done, the more time there is left to fix the problems that will inevitably crop up. Some failures lead to huge changes in the design of the rocket, and the earlier these problems are discovered, the better.

Thanks to NASA ESMD and California Space Grant, Tripoli San Diego and Professor Kosmatka for helping to fund and launch the rockets.



Team Blue Steel — Jonathan Yee, Neva Gebelein, Katelin Davis, and Blake Wildt.

Team Phoenix — Harry Campbell, Michael Gilpatrick, Alberto Corona, and Michael Renolayan



Team Tadpole — Christie Carlile, Samina Bhatia, Brian Preedanon, and Will Cowell.

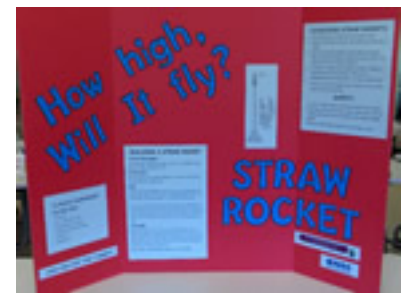
Thanks as well to George Story from MSFC for advising the students, particularly on the spinning tank modeling.

Pre-College Outreach

Can you stand in front of 30 smiling fourth grade students and explain what you do all day? Are you looking for interesting activities to use during classroom visits? Your search is over!



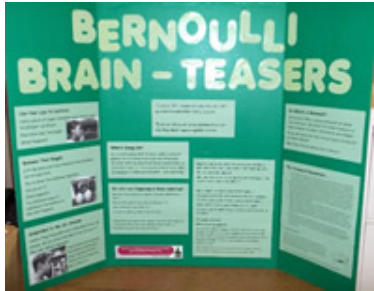
We have kits ready for you to take into classrooms to inspire young people! Each kit contains a brightly colored display board that helps focus student's attention on the topic while giving simple instructions for engaging, hands-on, fun learning activities as well as a bag holding the materials needed for the class to participate in the activities. Kits are on the following topics:



- Bernoulli Brain Teasers
- Paper Planes Contest – Which Plane is Best?
- Straw Rockets with rocket launcher
- Making flour craters and checking the ejecta with a black light
- Galileo scopes for sky watching
- Making a scale model of the solar system – from things you can eat!

- Paper Engineering – teach about the engineering design process using paper

Call Educator Associate, Sharon Freeburn, at 619-847-5518 to arrange to use a kit.



Engineers Learn to Be Educators

The Engineer's as Educators Workshop was held at the Space 2009 Conference and Exhibit in Pasadena, CA this fall, taught by Sharon Freeburn, a master teacher from the Space Grant Education and Enterprise Institute and the San Diego section. Workshop attendees learned tricks to construct age - appropriate presentations, use simple hands-on activities to demonstrate uses of math and science in new and fun ways, and how to talk with students and teachers to get the maximum impact with their classroom visits. The Precollege Outreach Committee plans to repeat workshops like this during the year. To learn how you or your section could benefit from this workshop, please contact Lisa Bacon at lisab@aiaa.org.



San Diego's Sharon Freeburn teaches the workshop at the Space Conference.



To be held in Balboa Park March 20-27, 2010

Plaster Blaster Dates Moved to November

Tripoli San Diego and the Diego Area Rocket Team (DART) are announcing the eighth annual Plaster Blaster. Held in Plaster City, California, a small community 90 miles east of San Diego, Plaster Blaster will be the weekend of November 6-8, 2009.



Plaster Blaster 2009 is a nationally recognized and popular event sanctioned by both the National Association of Rocketry (NAR) and Tripoli Rocketry Association (TRA). The NAR and TRA are national organizations that promote the safe and educational enjoyment of the hobby of sport rocketry and actively set standards for its members. Plaster Blaster is open to the public for spectating (launchers have to register - <http://www.plasterblaster.com/registration.html>).

The Plaster Blaster is a big event and they need lots of help to put on this event. If you would like to volunteer, please email Paul Snow (redrock@cox.net) with your contact info and where you would like to help. Further information can be found at their website (www.plasterblaster.com).

Stars in the Park

At dusk on the first Wednesday of each month, following the monthly "Sky Tonight" planetarium show in the Reuben H. Fleet Space Theater, members of the SDAA set up telescopes west of the Fleet on The Prado, for free public sky viewing.

The Mars Society San Diego and the San Diego Space Society set up displays near the telescopes. The event is free and each of the organizations encourages you to stop by and say hello.

Free Tuesdays at Balboa Park Museums

As a public service Park organizations offer free admission on a rotating basis on the first four Tuesdays of the month **to San Diego City & County residents**. The museum schedule for the free Tuesday program is as follows:

First Tuesday of the month:

Reuben H. Fleet Science Center
Centro Cultural de la Raza
Model Railroad Museum
Natural History Museum

Second Tuesday of the month:

Museum of Photographic Arts
Museum of San Diego History
Veterans' Museum and Memorial Center

Third Tuesday of the month:

San Diego Art Institute
Mingei International Museum
San Diego Museum of Art
San Diego Museum of Man
Japanese Friendship Garden

Fourth Tuesday of the month:

San Diego Air & Space Museum
San Diego Automotive Museum
San Diego Hall of Champions
House of Pacific Relations International Cottages

Fifth Tuesday of the month:

Normal museum prices in effect.
The Timken Museum of Art is always free.

Some museums may offer complimentary admission to their permanent collections only and charge admission to special exhibitions or films

San Diego Air and Space Museum's *Da Vinci* and San Diego Natural History Museum's *Body Worlds* requires a separately priced ticket.



Miramar Air Show Big Hit in October

Held the first weekend in October this year, the Canadian Snowbirds military jet-demonstration team joined the lineup of the Miramar Air Show for the first time; along with their U.S. Navy Blue Angels counterparts and dozens of other top military and civilian pilots from around the world.

The theme of this year's three-day show is "A Salute to Teamwork," a moniker military officials said was fitting since the event features both U.S. and Canadian jet teams. The nine-plane Snowbirds, using CT-114 Tutor aircraft, flew more than 50 formations at speeds in excess of 365 mph, sometimes with four feet of wing overlap.

Originally a Navy production, the Marine Corps took over the show after they arrived in 1998. The show included aircraft from all branches of service, in both static and active roles.

If power, speed, and patriotism are your turn-on; then the annual Miramar Air Show was the place to be. The show also featured military and civilian jets, propeller planes, old warbirds, a sailplane, hang glider, and jet truck.

As in past years, the Twilight Show also featured illuminated night-flying aircraft as the sky was filled with flares. The show ended with a fireworks display, climaxed by the Great Wall of Fire. The Miramar Air Show is open to the public. Parking, admission and blanket seating are free. If you missed this year's event, make sure you don't miss it next year.



The Navy's Blue Angels flying in formation.

3rd Annual COMMERCIAL AVIATION SUPPLY CHAIN MANAGEMENT FORUM

Supply chain and procurement professionals have consistently kept their eyes peeled for innovations aimed at streamlining the efficiency of their operations, and due to the economic crisis, that endeavor has never been more paramount than it is right now. Bare-bones cost-cutting measures are no longer a luxury, or even an option – in today's climate they are a necessary mandate to ensure survival.

This event, sponsored by *Aviation Week*, has become an annual event in San Diego. This year the conference will be held October 21-22, 2009 at The Westin San Diego. During this day and a half forum, they will highlight the paramount challenges impacting aviation supply chain professionals and share practical and proven real world success strategies for achieving significant cost-reductions and cost-savings.

Palomar Airport – 50-years of Operation

Last June Palomar Airport celebrated their 50th anniversary. Located at 2192 Palomar Airport Road in Carlsbad, the federally funded, 487-acre airport officially turned 50 on March 20. It is one of eight airports and airparks in the county of San Diego airport system.



In the photo, Curran Decking, a sixth generation resident of Carlsbad, and direct descendant of Gerald McClellan, for whom McClellan-Palomar Airport is named, points his toy airplane toward the sky while perched on a fire engine during the open house event.

Several community and nonprofit organizations had booths at the event.

Aerospace Events coming to San Diego

San Diego continues to be a destination point of choice and a prime venue for aerospace events. Here are listings of some of those that have been announced:

October 24, 2009 - 8:00 a.m. to 3:00 p.m.
Chula Vista Model and Radio Control Club's 18th Annual Otay Lake Float Fly -
Bring your float planes or flying boats for

a day on the lake. AMA membership required. Free parking

- February 24–25, 2010
National Business Aviation Association (NBAA) 18th Annual Leadership Conference
- April 6–8, 2010
NBAA 25th Annual Maintenance Management Conference
- June 21–22, 2010
NBAA PDP Course: Flight Operations Manual Workshop
- June 23–24, 2010
NBAA PDP Course: Management Fundamentals for Flight Departments Workshop
- June 24–26, 2010
NBAA 15th Annual Flight Attendants Conference
- April 19–21, 2011
56th Annual Corporate Aviation Safety Seminar
- June 24–27, 2013
AIAA 43rd Fluid Dynamics Conference and Exhibit

Veterans Day Scale Fly-In 8 Nov. 2008



Miramar R/C Flyers Field

0800 to 1400

Awards for various period aircraft

Hot Lunch will be served

This year we honor Korean War Vets

For info call Frank @ 858-271-4430

For info call Curtis @ 760-746-5913

International Aerospace Hall of Fame Gala Celebration Announced at SDASM

Annually, the San Diego Air and Space Museum inducts selected individuals and groups into the International Aerospace Hall of Fame (IAHF).

After careful consideration they have chosen eight individuals and groups that have made inspiring contributions to the aviation and space industry. They are the innovators, the scientists, the aviators, the engineers, the explorers who positively influenced the technologies we now take for granted. They made a difference in the lives of others and are the examples for our future generations to emulate.

The inductees for 2009 are:

Sally Ride - America's first woman in space

Cliff Robertson - Academy Award-winning actor and aviation ambassador

Blue Angels - United States Navy Flight Demonstration Squadron

Clay Lacy - World famous aerial videographer

Women Airforce Service Pilots (WASP) - WWII women pilots

Sean Tucker - Renowned aerobatic pilot

Frank Robinson - Founder of Robinson Helicopter Company

Lockheed Brothers & Skunk Works - Aerospace Innovators & Leaders

On November 21, 2009, you will have the opportunity to meet these legends of air and space for an evening of extraordinary recognition and fun, as you're provided a personally experiential peek into each honouree's life.



Position	Name/Company	Work Phone/Fax	Email Address
Section Chair	Kevin Willett, GA-ASI	(858) 312-3924	Chair@aiaa-sd.org
Secretary	Dan Miller, GA-ASI	(858) 356-7003 H	Secretary@aiaa-sd.org
Treasurer	Penelope Ulander, NAVAIR North Island	(619) 545-3935	Treasurer@aiaa-sd.org
Vice Chair – Long Range Planning	Cody Krzton-Presson, Northrop Grumman	(858) 618-7421	ViceChair.LRP@aiaa-sd.org
Vice Chair – Technical	Guinness Helfrick, Northrop Grumman	(858) 472-1018 H	ViceChair.Tech@aiaa-sd.org
Program Arrangements	Kevin Burns, USNR	(619) 543-0951	kevin.burns@cox.net
Field Trips	Mark Shin		
Flyers	Jenny Rhymer, UCSD	(858) 699-5885 H	jrhymer@ucsd.edu
Newsletters & E-Bulletins	Kevin Burns, Wyle	(619) 543-1700	editor@aiaa-sd.org
Webmaster	Vacant		Webmaster@aiaa-sd.org
History & Bylaws	Chris Root, NAVAIR North Island	(619) 545-0626	Chris.root@navy.mil
RAC VI Delegate	Greg Marien, Northrop Grumman	(858) 618-5207	greg.marien@ngc.com
Public Policy	Phil Smith, Space Grant Education and Enterprise Institute	(619) 225-2912	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	Vacant		
Professional Society Liaison	Warren Johnson, BFGoodrich Aerospace – Retired	(858) 278-1317	wmjohnson2@earthlink.net
Pre-College Outreach	Chris Root, NAVAIR North Island	(619) 545-0626	Chris.root@navy.mil
Educator Associate	Sharon Freeburn, Space Grant Education and Enterprise Institute	(619) 847-5518	sfreeburn@sgeei.org
Young Professionals	Kevin Scanlon, Goodrich Aerospace	(619) 691-6612	Kevin.Scanlon@Goodrich.com
SDSU Faculty Advisor	Allen Plotkin, SDSU	(619) 594-7019	aplotkin@sciences.sdsu.edu
SDSU Student Chair			
UCSD Faculty Advisor	Dr. Keiko Nomura	(858) 534-5520	knomura@ucsd.edu
UCSD Student Chair	Julia Stalder, UCSD		jstalder@ucsd.edu
Rocket Project	Steve Harrington, Flometrics		sharring@flometrics.com



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