



## ***From the Flight Deck***

*Phil Rose, Section Chair*

In October of 2003 we will celebrate the 100<sup>th</sup> anniversary of man powered flight and this year will see many forms of recognition, including activities planned by the San Diego Section of AIAA. Yet 2003 will continue to be a very challenging year for almost all aspects of aerospace. The commercial market will remain depressed as airlines still struggle to increase passenger loading. Some elements of military markets are still fairly robust, but the number of future programs looks bleak, with no major programs scheduled after the JSF. The only bright light for some local companies and members may be the increase demand for UAVs.

Our industry in the United States has lost over 600,000 technical and scientific jobs in the last 13 years and approximately 25% of the current aerospace work force is eligible to retire in the next 5 years. Our education system is failing to produce students with the math, science and technical skills needed to advance the aerospace industry. Unless there are dramatic changes, and soon, the United States is in jeopardy of losing its supremacy in Aerospace and related fields.

These are just some of the facts that came out of a "Commission On The Future Of The U.S. Aerospace Industry" recently published (for more details see [www.aerospacecommission.com](http://www.aerospacecommission.com)). With all of this depressing news come huge opportunities for us all involved in the aerospace industry. There is a lot that needs to be done. The Council welcomes your views and comments along with any suggestions on what we, your representatives, can do locally to address some of the challenges and provide you with the information or tools to help you tackle the challenges ahead.

The level of activity by the Council is gaining momentum and by the time you receive this, several events will have been completed, including a meeting to kick-off the 100 years of flight celebrations. We had a very interesting field trip in November to Composite Optics Inc. and a post-Design, Build, Fly model competition meeting sponsored by the very active SDSU Student branch, which showed off their very successful model. They are now actively working on this year's competition model. Also in the hunt for awards is the UCSD team, who are very active with their plans. They are two talented teams and we wish them luck. Through Mike Lazar, we are supporting a Region VI activity to try and establish a

similar Design, Build, Fly competition here on the West coast in the next couple of years, so anyone interested in helping with that activity will be very welcome.

As we mentioned in the last newsletter, we are trying to get some events focused on the interests of different segments of the membership. In February we are planning a coffee program directed towards our retired members, which will take place during a weekday. The program will be a VIP panel speaking out on some of the successful programs they participated in during their careers and telling "the way it was". We hope that this will be of interest and should generate a lot of discussion. We also have in the planning phase an event in March directed primarily, but not exclusively, towards the younger members with an evening meeting on personal financial planning. We welcome feedback on these activities to see if they are the type of events for which you are looking.

As a Section, we will be supporting the Engineers Week Banquet on February 21, and hope to see many of you involved in the week of planned activities. In March, there will be a rather splendid and special series of activities, which will take place at North Island, as it is recognized as an historic site being the birthplace of naval aviation. Many events will be taking place, including an exhibition of historic aircraft. More details later.

We hope you are enjoying the new feature of a monthly electronic newsletter along with a calendar of other events in the area that may be of interest to you. If you have anything you would like included, please get it to Nigel Barker or Stephan Hollman (see contact details later in this newsletter). We also have planned a Saturday Technical Lecture Program for April.

As we move into the New Year, we would like to solicit from you any recommendations or volunteers for the elected officers or other Council positions for the next Council year. We'll be convening a new San Diego Section Council in June 2003, and we want to get names of volunteers and nominations for elected officials in as early as possible. Please contact Phil Rose at 619 691 2592 or [phil.rose@goodrich.com](mailto:phil.rose@goodrich.com) or Nigel Barker at 619 691 2568 or [nigel.barker@goodrich.com](mailto:nigel.barker@goodrich.com).

Also, please submit anyone you would like to recommend for an award at the annual Awards Banquet. This should be accompanied by a brief description of why you are recommending the person, along with his or her accomplishments.

## Vice Chair – Technical's Corner

Dr. Anisur Rahman

### TECHNICAL SYMPOSIUM CALL FOR PAPERS

A one-day technical symposium is planned on Saturday April 19, 2003 to showcase San Diego's contributions in aerospace sciences and applications. The AIAA San Diego Section Technical Symposium is soliciting papers for presentation. Papers presented at this Technical Symposium may have been previously presented or published. However, authors will be responsible for obtaining appropriate release authorization, if required. Presented papers will not be published for the purposes of the San Diego Section's Technical Symposium.

Contributions from technologists, scientists, engineers, managers, and students are encouraged. Suggested technical topics include, but are not limited to: Aerodynamics, Aircraft/Spacecraft Design, Maintenance and Repair, Propulsion and Power Systems, Analysis Techniques, Ground & Flight Testing, Structures, and Materials. Potential presenters should submit either a previously published paper, draft paper, or abstract for evaluation. Abstracts, no more than one page long, should include the following: Paper Title; Author's Name(s); Company, full mailing address, telephone and fax numbers; Concise Statement of Problem; Scope and Methods of Approach; and Summary of Conclusions.

Please mail abstracts to Dr. Anisur Rahman, Vice Chair-Technical, AIAA San Diego Section, 8211 Vincetta Dr, #6, La Mesa, CA, 91942-2443. The deadline for receipt of abstracts or papers is February 28. Letters of acceptance will be mailed out on March 10, 2003. Oral presentations at the Symposium will be limited to 25 minutes. An additional 5 minutes will be allotted for questions and discussion. For questions or additional information, please contact Dr. Anisur Rahman at (619) 545-2277 or Fax (619) 545-5160.

### Membership News

Jim Peterson, Membership Chair

Section membership stands at 447 as of December 1st. We would like to welcome the following new members:

#### New Members

Drew Adams	SDSU
Joshua Adams	UCSD
Amando Aviles	SDSU
Donald Bentley	BAE Systems
Namal De Silva	
Christopher Diebner	SUNY Buffalo
Jim Iocco	SDSU
James Johnson	St Louis Univ
Ryan Johnston	SDSU
Parisu Komaradat	
Marshall Lowenstein	Vibro Acoustic Sciences
Tshikoyo Mutombo	SDSU

Miyoko Nakajima  
Gregory Ouellette  
Aaron Pebley  
Joshua Robinson  
Bruce Smith  
Brian Tarango  
Krzysztof Wadolkowski  
Jerald Webber

SDSU  
Naval Post Grad. School  
UCSD  
UCSD  
California Linear Devices  
Northrop Grumman  
Embry-Riddle Aero Univ.

#### Transfers-in

Jose Cornejo  
James Karam  
Francisco Macias  
Megan O'Connell  
Anisur Rahman  
Satchi Venkataraman

ATA Engineering  
Cubic Transportation  
Northrop Grumman  
US Navy  
NAVAIR Depot No. Is.  
SDSU

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](mailto:jdpete@pacbell.net).

### Membership Information Updating

If you have changed your mailing address, please call the AIAA Headquarters Customer Service Center at 1800-NEW-AIAA and provide them with the current information. Remember, the mailing labels are printed using the information in the AIAA database. You may renew your membership via telephone at the same phone number, using a credit card. If you have become unemployed or retired, you may renew your membership at a lower rate.

**Email Addresses:** The San Diego Section is increasingly relying on email for communicating with our members. We presently have 341 good addresses in our address list. The balance of our 445 members either do not have email, or their former address has become obsolete. We are beginning to provide a monthly bulletin to notify you of upcoming events, so it is very important to keep the Membership Chair informed whenever you change your address. To list or change your E-mail address, contact Jim Peterson at [jdpete@pacbell.net](mailto:jdpete@pacbell.net).

### UCSD AIAA and SHPE Join in Outreach

Mann Chau, UCSD

The University of California in San Diego encourages students to volunteer in outreaching to elementary, middle, and high school students around San Diego County. Outreach is meant to heighten the awareness of college students about the importance of mentoring and developing relationships with younger children especially in the inner city schools of San Diego. For the younger children affected by Outreach, it provides a stimulating outlet for them to experience practical applications of science and math first hand in the classroom. The Outreach activities are meant to be engaging, fun and educational while stressing the importance and potential possibilities that science and math has to offer in their lives. UCSD AIAA and the Society of Hispanic

Professional Engineers (SHPE) have answered the call together, teaming up to mentor and teach science to the students from all over San Diego County.

Every Tuesday and Friday, SHPE and AIAA members extend a hand to Logan Elementary fifth-graders. Logan Elementary is predominantly Hispanic and is currently trying to raise the English/Reading and Math proficiencies of the students. The curriculum at Logan reflects this need with the majority of the focus in English/Reading and Math. Outreach provides fifth-graders an outlet to Science. Volunteer AIAA and SHPE members work with teachers to introduce students to basic concepts in Science such as the different states of matter, chemical reactions, and properties of polymers. In one of the lessons, volunteers introduced students to the concept of chemical bonds by mixing borax, water, and Elmer's Glue to produce GOOP (i.e., Silly Putty). Plans are pending to introduce students to the Internet since most Logan Elementary students don't have computers at home.

During UCSD's winter break, SHPE and AIAA volunteers who were present in San Diego introduced the Spaghetti Bridge Building Contest to science classes in various middle schools throughout San Diego. These middle schools include Gompers, Oceanside, Memorial, and Pacific Beach. The purpose of the Spaghetti Bridge Building Contest was to provide practical applications for the classes' lessons in force and torque. Students are provided half a pound of spaghetti noodles, an unlimited amount of glue and a month of design and construction time. The object of the contest is to build a bridge out of spaghetti that can withstand the most amount of force.



**Professor Bob Mihalik of Pacific Beach Middle School Explains the mechanics of spaghetti and glue.**



**An AIAA member (center) advises on the designs.**

## **National Engineers Week 2003**

*Warren Johnson, Professional Societies Liaison*

National Engineers Week (February 16-22, 2003) is only one month away. The week's premier event - the 2003 Annual National Engineers Week, San Diego Awards Banquet, will be held on Friday, February 21 at the Double Tree Hotel in Mission Valley (Hazard Center).

The Keynote Speaker for the banquet will be Richard A. Charles, P.E. Mr. Charles is a principal of Charles & Braun, Consulting Engineers, San Francisco and Past-President of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) International Society. Mr. Charles has more than 45 years of experience in preparing or supervising the design of virtually every type of project requiring environmental control. The theme of his address will be "Indoor Air Quality - Simple Solutions to Complex Concerns". He will present the latest information on indoor quality, control of moisture, mold and fungus, and energy efficient HVAC systems in buildings.

The banquet will begin with check-in at 6:00 PM and dinner at 7:00 PM. Each person will receive a ticket at check-in showing that they have paid and the meal choice they have. Each person must have a ticket to be served, so do not forget to check in!

For any questions, please call Warren Johnson at 858-278-1317 ([wmjohnson2@earthlink.net](mailto:wmjohnson2@earthlink.net)) or Keith Glassman at 619-545-3736 ([GlassmanKF@navair.navy.mil](mailto:GlassmanKF@navair.navy.mil)).

## **Retirees Speak Out Panel**

*Bill Chana, History and Bylaws Chair*

A special program directed towards the needs and requirements of retired members, employed members and students will be held on February 13, 2003 in the Engineering Building at San Diego State University. A flyer will be mailed to all AIAA members with full details. The following retirees will form a panel moderated by retiree Bill Chana: BGen Bob Cardenas, USAF (Ret); Jack Hurt, Convair; Dale Myers, NASA; Karl Montijo, Rohr; and Aubrey Stone, Solar Turbines. This will be a noon meeting with pizza and soft drinks for lunch.

## **NAS North Island an AIAA Historic Site**

The AIAA Historic Site Committee and NAS North Island have selected Thursday March 13 as the date for dedicating North Island as an AIAA Historic Site. AIAA members will be receiving invitations to the ceremony, along with Navy and local dignitaries. This is a BIG event in our local calendar in this Centennial of Flight year. So pencil the date in your planner, shine your shoes and look out for your invitation in the mail sometime in February.

## **Catch 'Em Early - Precollege Outreach**

Bill Chana, section council member for History and Bylaws sat down recently with thirty 4th, 5th and 6th graders from teacher Bonnie Johnston's GATE program at Kellogg School in Chula Vista. In two Wednesday sessions, Bill talked about the Wright brothers and Charles Lindbergh using slides, video and live action. After Bill gave a hand-built Wright Flyer glider to the youngster who asked the first question, the kids rose to the occasion and the questions came thick and fast throughout his talk. The proud winner showed off the model, assembled with her dad's help, at next week's session where another student took home a model of the Spirit of St. Louis, and the rest of the class took home a real appreciation for the pioneers of aviation. If you know a teacher who'd like Bill to talk to his or her class, have them contact the Education Dept. of the Aerospace Museum at 619 234 8291 Ext. 19 to be put in contact with Bill.

## **Reaching Out to K-12 Teachers**

The spark that ignites an abiding interest in math and science is kindled in our schools. That's why AIAA offers a special FREE membership to teachers. Among other benefits, they can qualify for up to a \$200 grant to push their science, math, or related academic agenda forward. If you know someone who you think should become an AIAA Educator Associate, please let them know that all the information they need is at:  
<http://www.aiaa.org/education/index.hfm?edu=18>.

On a local note, the section council voted at the last meeting to honor our current Educator Associates by creating a Section award for Outstanding Educator Associate, the first of which will be awarded in 2003.

## **Reuben H. Fleet Scholarships**

*Bill Chana, History and Bylaws Chair*

All AIAA San Diego Section members have received through the mail the announcement of the 2003 Reuben H. Fleet Scholarship program. Once again, through member donations and a grant from the San Diego Foundation Reuben H. Fleet Fund, the Section will select scholarship winners and present them at the annual meeting and awards banquet in late May. This is the 20th anniversary of the Scholarship program. Since 1983, the Section has awarded 69 scholarships to students pursuing careers in aerospace. A total of \$81,000 has been awarded to students through your and the Fleet Fund's help. Last year, six \$1,500 scholarships were awarded. You are encouraged to mail in a donation for this year's awards.

San Diego State University (SDSU) and University of California (UCSD) AIAA Student Branch members are eligible to apply. As an AIAA member, you can also nominate a High School senior who is accepted at a University and plans to pursue aerospace-related studies. Please contact Keith Glassman, Honors and Awards Chair,

at [GlassmanKF@navair.navy.mil](mailto:GlassmanKF@navair.navy.mil), if you need additional information or scholarship application forms.

## **Wright Brothers 1899 Kite Contest**

*Bill Chana, History and Bylaws Chair*

In 1899, the Wright Brothers built a 5-foot span bi-plane kite to experiment with and to prove to themselves that their wing warping concept for lateral control was feasible. What would you think of our members with their children and/or grandchildren building a reproduction of the 1899 kits and having a fun time trying to fly it at a kite contest? Drawing for the kite would be made available to those that want to take on the challenge. The contest would be held at a suitable location for kite flying in the latter part of 2003. The kite contest would be one of the AIAA San Diego Section's events recognizing the Centennial for the Evolution of Flight Celebration. Contact Bill Chana at (858) 488-7183 for discussion on this potential program.

## **AIAA National News**

**AIAA Elections.** The ballots for the 2003 AIAA Elections will be sent to all eligible voters in February. The ballots will arrive in an envelope marked "Ballot Enclosed". They will not be delivered with your Aerospace America as in past years. Please mark and return your ballots. The deadline for receipt of the completed ballot at AIAA Headquarters is 26 March 2003.

**CVD 2003.** AIAA's Seventh Annual Congressional Visits Day will be held 8-9 April 2003 in Washington, D.C. Registration fee is \$200 if you register by the early bird deadline, 11 March 2003. Special rates for Government Employees and Retirees are \$100. Student rates are \$50. The registration fee is \$300 after 11 March 2003 for general registration, and \$150 for Government Employees and Retirees, NO EXCEPTIONS. No registrations will be accepted after 25 March 2003. A block of rooms have been set aside at the Washington Court Hotel. The rates are \$269/single or double. The room block cut-off date is 7 March 2003.

Section Chairs and Public Policy Officers will be sent a brochure and a letter regarding the Section Participation Sponsorship Program that is again being offered this year. There are new limits on the allotments for 2003. Section Chairs must submit the nominations from their sections by 24 February 2003. After review by the AIAA Public Policy department, those chosen will be notified of their selection by 1 March 2003.

For further information contact: Paul Looney at [paull@aiaa.org](mailto:paull@aiaa.org), 703/264-7625, or Michael Beavin at [michaelb@aiaa.org](mailto:michaelb@aiaa.org), 703/264-7517.

**AIAA Foundation Educator Achievement Awards.** The AIAA Foundation announced the winners of the 2003 Educator Achievement Award. This award is presented to seven AIAA precollege (K-12) educators who have

demonstrated exemplary efforts in facilitating the continued study of mathematics, science, and related technical studies among America's youth. The Award recipients for this year are:

Ellen Holmes - Fairmount Elementary, Bangor, ME  
 Angela Mitchell - Windsor Forest High, Savannah, GA  
 Joy Reeves - formerly of Bright Elementary, Chicago IL  
 Brett Williams - Fredericksburg High, Fredericksburg, TX  
 Jennifer Linrud - Wichita Collegiate Jr. High, Wichita, KS  
 Tanya Wright - Black Mtn Elementary, Golden Valley, AZ  
 Christian Laster - Russell Elementary, Smyrna ,GA

The winners and their guests will receive a trip to the AIAA/ICAS International Air and Space Symposium and Exposition: The Next 100 Years in Dayton, OH, July 14-17, 2003. They will be recognized at the AIAA Honors Night Banquet 15 July at the Air Force Museum

**Call for Nominations - Membership Upgrades.** Now is the time to start thinking about who is eligible for Associate Fellow, Fellow, and Honorary Fellow. **Associate Fellow** candidates shall be persons who have accomplished or been in charge of important engineering or scientific work, or who have done work of outstanding merit or have otherwise made outstanding contributions to the arts, sciences, or technology of aeronautics or astronautics. Nominees must be AIAA Senior Members and have at least twelve (12) years of professional experience. **Fellow** candidates are recognized by their associates for the following characteristics: professional integrity, effectiveness, and efficiency in leadership of organizations that have conducted pioneering or complex programs or made noteworthy contributions to the field of aeronautical/astronautical education. **Honorary Fellow** candidates are persons of eminence in the aeronautics or astronautics, recognized through their long and highly contributive careers in the art, science, or technology thereof. Associate Fellow nominations forms are due 15 April 2001 and reference are due 15 May 2001. Fellow and Honorary Fellow nominations are due to AIAA Headquarters by 15 June 2001 and references are due by 15 July 2001. To request nomination forms, please contact AIAA Customer Service at 800/639-AIAA or 703/264-7500 or visit our web site at [www.aiaa.org](http://www.aiaa.org).

**Honors and Awards Manual Online!** Check deadlines, past recipients, and award scopes on the new online Honors and Awards Manual. These pages will allow you to search only the awards you are looking for without having to download the whole manual. Soon to follow is a search feature that will enable you to look up award information by recipient or award.

**International Air & Space Symposium and Exposition.** Join the AIAA and the International Council of the Aeronautical Sciences (ICAS) on 14-17 July 2003 in Dayton, Ohio at the *International Air & Space Symposium and Exposition: The Next 100 Years*, as the aerospace community celebrates the centennial of flight. The four-day technical program will cover four facets of the

aerospace community: commercial aviation, military aviation, general aviation and space. The event also features more than 70,000 square feet of exhibit space, filled with companies and research organizations highlighting emerging technologies, showcasing global achievements, and educating industry peers and the public about the many benefits of aerospace. For the detailed symposium program or to REGISTER, visit our Web site at [www.aiaa.org/Dayton2003](http://www.aiaa.org/Dayton2003).

### **Section Events Calendar 2002-2003**

#### **2002**

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|-----|-------|--|
| Oct | 18-20 | MCAS Miramar Air Show<br>Student Design/Build/Fly Displays       |
| Nov | 6     | SDSU Student Chapter Joint Meeting<br>2002 D/B/F TLAR Competitor |
| Dec | 5     | Field Trip – Composite Optics, Inc.                              |

#### **2003**

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|-----|-----|---|
| Feb | 13  | Retirees Speak Out Panel  |
|     | 21  | National Engineers Week Banquet                                   |
|     | 28  | Evolution of Flight Kick-off Event,<br>San Diego Aerospace Museum |
| Mar | 13  | NAS North Island AIAA Historic Site<br>Dedication                 |
| Apr | TBD | Greater San Diego Science Fair                                    |
|     | 19  | AIAA SD Technical Symposium, SDSU                                 |
|     | 23  | Student Design/Build/Fly Competition                              |
| May | TBD | Section Awards Banquet  |

Additional information will be added to this calendar in future newsletters as it becomes available. Information will also be made available in the monthly electronic newsletter and through the Section web site, which is accessible through the National web site at <http://www.aiaa.org>.

Position	Name/Company	Work Phone	Email Address
Chair	Phil Rose, Goodrich Aerostructures	(619) 691-2592	<a href="mailto:Phil.rose@goodrich.com">Phil.rose@goodrich.com</a>
Vice Chair - Planning	Nigel Barker, Goodrich Aerostructures	(619) 691-2568	<a href="mailto:Nigel.barker@goodrich.com">Nigel.barker@goodrich.com</a>
Vice Chair - Technical	Dr. Anisur Rahman, NAVAIRSYSCOM	(619) 545-2277	<a href="mailto:Rahmana@navair.navy.mil">Rahmana@navair.navy.mil</a>
Secretary	Lee Bolt, Aerospace Consultant	(619) 281-0216	<a href="mailto:leebolt@worldnet.att.net">leebolt@worldnet.att.net</a>
Treasurer	Colin Etheridge, Solar Turbines	(619) 544-5136	<a href="mailto:Etheridge.Colin.J@solarturbines.com">Etheridge.Colin.J@solarturbines.com</a>
Program Arrangements	VACANT		
Field Trips	Eric Heininger, Pyramid Space, Inc.	(858) 554-1140	<a href="mailto:Eheininger@Heininger.com">Eheininger@Heininger.com</a>
Newsletter	Mike Lazar, Northrop Grumman Corp.	(858) 618-4208	<a href="mailto:mlazar@ryanero.com">mlazar@ryanero.com</a>
Flyers	Penelope Ulander, Naval Aviation Depot, NI	(619) 545-3935	<a href="mailto:Ulanderpj@navair.navy.mil">Ulanderpj@navair.navy.mil</a>
Electronic Newsletter	Stephan Hollmann, Hollmann Enterprises	(858) 558-6667	<a href="mailto:SFHollmann@sbcglobal.net">SFHollmann@sbcglobal.net</a>
Internet Webmaster	John Ogden, Weldmac Engineering	(619) 440-2300	<a href="mailto:engineering@weldmac.com">engineering@weldmac.com</a>
Public Policy	VACANT		
History & Bylaws	Bill Chana, W. F. Chana Associates, Inc.	(858) 488-7183	
Region VI Delegate	Chuck Heightland, THG Engineering	(760) 728-9249	<a href="mailto:heightlandc@thg-engr.com">heightlandc@thg-engr.com</a>
Membership	Jim Peterson, General Dynamics (ret.)	(858) 279-1940	<a href="mailto:Jdpete@pacbell.net">Jdpete@pacbell.net</a>
Honors & Awards	Keith Glassman, Naval Aviation Depot, NI	(619) 545-3736	<a href="mailto:GlassmanKF@navair.navy.mil">GlassmanKF@navair.navy.mil</a>
Professional Society Liaison	Warren Johnson, BFG Aerospace (ret.)	(858) 278-1317	<a href="mailto:Wmjohanson2@earthlink.net">Wmjohanson2@earthlink.net</a>
Young Professionals & EOF	Chris Root, Naval Aviation Depot, NI	(619) 545-0626	<a href="mailto:RootCB@navair.navy.mil">RootCB@navair.navy.mil</a>
Pre-College Outreach	Quentin Goss, USAF (ret.)	(858) 451-6213	<a href="mailto:Qigoss@worldnet.att.net">Qigoss@worldnet.att.net</a>
Education & Student Activities	VACANT		
SDSU Faculty Advisor	George Faulkner, SDSU	(858) 270-6604	<a href="mailto:DGfJR@aol.com">DGfJR@aol.com</a>
SDSU Student Chair	Matthew Gregory, Dept. of Aero. Eng.	(619) 508-6557	<a href="mailto:mgregory@rohan.sdsu.edu">mgregory@rohan.sdsu.edu</a>
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UCSD Student Rep.	Mann Chau		<a href="mailto:machau@ienq9.ucsd.edu">machau@ienq9.ucsd.edu</a>
Member at Large	Thane Coxon, NAVAIRSYSCOM	(619) 504-5259	<a href="mailto:Coxontc@navair.navy.mil">Coxontc@navair.navy.mil</a>
Member at Large	Byron Lowry, Lockheed Martin Systems Int.	(619) 435-4327	<a href="mailto:byron.lowry@lmco.com">byron.lowry@lmco.com</a>
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