

Congressman Chris Bell speaks at August Dinner Meeting



Dr. Rakesh Bhargava (right), AIAA Houston Section Honors & Awards Chair, presents Congressman Chris Bell with the first of 1,500 Century of Flight posters sponsored by the Houston Section (see Page 3 for article).

Becoming an AIAA member

Are you interested in becoming a member of the AIAA or renewing your membership? You can fill out a membership application online by going to the AIAA membership website at www.aiaa.org/information.

May 15 Input Deadline for the Next Edition of *Horizons*

Contributions can be submitted by email to Michael Oelke at chairAIAA@aiaa-houston.org. (remove AIAA from e-mail address)

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Chair's Corner

Greetings from the new Executive Council of your Houston Section! The 2003-2004 AIAA year is just beginning, and we look forward to an exciting year filled with increased public policy and professional development programs. As Chairperson I am thrilled to have working with me many returning officers and several new ones that bring new skills and enthusiasm to the Section leadership.

We hope to improve our service to the membership this year, by:

- Launching a new web site
- Improving our communications (e-mail, letter, and phone)
- Rejuvenating our Annual Technical Symposium, and
- Conducting several Century of Flight events

We've already returned from our first events, the Annual Regional Leadership Conference, and a highly successful dinner meeting with US Representative Chris Bell. Since this is the 40th Anniversary for AIAA, we also hope to have a special dinner meeting in November that will provide an opportunity to remember people and events from the past four decades.

AIAA presents an outstanding opportunity for people to challenge themselves and make contributions beyond their defined professional roles. I encourage each of you to review the organizational chart at the end of this newsletter and contact our operations and technical chairs if you see a committee that interests you.

The Executive Council and I look forward to serving you this year and in helping AIAA celebrate its 40th Anniversary and the Century of Flight!

Michael L. Oelke
Chairperson, AIAA Houston Section

Congressman Chris Bell at the August Dinner

By Michael Oelke, Chairperson

We were honored to begin our 2003-2004 AIAA season with US Congressman Chris Bell (25th district) as our guest speaker at the August 26th dinner meeting. Over one hundred people attended his presentation and Q&A session. In addition to Congressman Bell, we were also honored to host area business leaders, a representative from US Con-

gressman Nick Lampson's office (9th district), and Gen. Howell, JSC Center Director.

Although Congressman Bell's speech, "*Aerospace from a Washington DC Perspective*", focused on the space industry, it covered a broad range of related topics that influence the space industry as well. For example, H.R. 1085, NASA Flexibility Act of 2003, was introduced this year to enhance NASA's hiring and retention of employees (to learn more about H.R. 1085, go to thomas.loc.gov). This legislation may be just as important as new technologies in supporting the aerospace industry. Also important is the need to understand the many fiscal demands on the government and how these must be balanced. This is especially difficult now, when the needs to defend against terrorism are taxing many other programs, not the least of which is the space program.

Questions following the speech ranged from discussions on the Chinese space program to implementing educational programs to bolster the number of young people learning math and science. The most important topic, however, was concern over the future of America's space program. While over 70% of Americans believe we should continue to send people into space, concerns about support for the space program are not necessarily being voiced. It is essential that we in the space industry communicate the benefits of space exploration both to the public and to our representatives in Washington. As a strong supporter of the space program, Congressman Bell encouraged everyone attending the dinner to contact him with their thoughts and opinions to assist him in representing our interests. (For those of you who were not able to attend, please contact him and his staff at bell.house.gov.)

The evening concluded with a presentation of an 'Evolution of Flight' poster, developed by local 9th grade students, to Congressman Bell. This poster was the first in a series of over 1,500 that will be printed and distributed to local schools. Its goal is to educate and inspire students to learn about aviation and to pursue careers in aerospace.

This dinner event was just one aspect of the entire spectrum of aerospace education activities that AIAA supports. We thank Congressman Bell and all who attended for making the evening a great success!

RLC in Austin - Hook 'em on AIAA!

By Michael Oelke, Chairperson

The 2003 Regional Leadership Conference (RLC) was held at the Renaissance Hotel in Austin, TX August 15th & 16th. Due to its close proximity, ten members of the Houston AIAA section moseyed on over and joined 62 other delegates from across the nation as well as delegates from Canada and Australia, in exchanging best practices, lessons learned, and ideas for continued section growth and success.

Not only did Houston send ten delegates, but five of our attendees, Dr. Mary Sanchez, Sophia Bright, Nicole Smith, J.R. Reyna, and Joy Conrad King presented sessions geared toward educating new and returning officers attending the conference. Their presentations covered the range of topics from educational outreach to recruitment and retention of new members. J.R. Reyna was the featured speaker at Saturday's luncheon; the topic of his address was "*Emotional Intelligence, An Essential Element for Successful Leadership.*"

The events began at noon on Friday with a keynote address by Dr. Don Richardson, chair elect for AIAA National. The rest of Friday afternoon was filled with membership information and techniques for recruiting and retaining new members. Jerry Schneider, director of Region VII provided an update on the international membership activities. The afternoon continued with a brainstorming session on Section Best Practices to help sections streamline their operations. The day concluded with a Texas barbecue reception and a Young Professionals outing to "The Oasis", overlooking beautiful Lake Travis.

Saturday was dedicated to educational sessions geared towards enhancing section operations. Ten sessions were offered, ranging from training on the AIAA national web site to involvement with national technical committees, and organizing and running regional student paper conferences.

The most valuable thing gained at the conference was the wonderful networking opportunity to meet the national staff as well as officers from other sections. Whether large or small, it appears that all sections have similar challenges; however, the techniques used to solve these problems often differ. By exchanging our experiences and stories, we left the weekend not only better prepared for the year ahead, but with a host of new friends throughout the AIAA community. Next year's conference is scheduled for July 16th & 17th in Ft. Lauderdale, Florida. Mark your calendars now!

2003 AIAA GN&C Conference and Exhibit

By Douglas Yazell, Chair, GN&C Tech Committee

Austin, Texas hosted our 2003 AIAA Guidance, Navigation & Control (GN&C) conference in fine style. The Renaissance Hotel worked beautifully, thanks to our national AIAA staff. (The hotel even accepted our adult Old English Sheepdog, Sapphire, as a guest in our room.) While the conference ran from Monday, August 11, through Thursday, August 14, other commitments kept me away until Wednesday morning. However, I was still able to listen to many speakers and met plenty of new and old contacts. Technical presentations, dinner socials, and technical committee meetings kept us hopping.

Professor Bong Wie of Arizona State University talked with his usual gusto for an hour (two consecutive technical presentations) about Control Moment Gyroscope (CMG) fundamentals and related new results. He reviewed four related classic papers and challenged us to keep up with him. I re-introduced myself to Professor John Junkins of Texas A&M University, whose lunch-and-learn presentation for our Houston AIAA GN&C technical committee in June of 2001 attracted an audience of about seventy people at NASA/JSC. Dr. Valasek of Texas A&M University volunteered to do a lunch-and-learn soon for our Houston committee, and, following his suggestion, we will invite another professor from there to do the same for us at another time.

I joined the AIAA national GN&C committee's 35 (and more) members for their Thursday meeting from Noon to 5:00 PM. I spoke to them about the accomplishments and plans of our Houston technical committee, and I volunteered our committee to be of service to them. The chair, Professor Mark Balas of the University of Colorado at Boulder, invited our committee to join them again next year at the same event in Providence, Rhode Island.

As usual, two other conferences shared the hotel with us, the AIAA Atmospheric Flight Mechanics Conference and Exhibit and the AIAA Modeling and Simulation Technologies (MST) Conference and Exhibit. Our committee's Ellen Gillespie (United Space Alliance) presented a paper at the MST conference: "*Crew Return Vehicle (CRV) Deorbit Opportunities*". Ellen also provided our committee with a detailed report of the technical activities that we missed in the MST conference.

As usual, the enthusiastically executed work of a large number of people resulted in another very successful AIAA conference!

Lunch-n-Learn Report: University of Houston Graduate Program in Space Architecture

By Ellen Gillespie, GN&C Committee

On June 18, 2003, Mr. Larry Bell from the University of Houston presented his lunch-and-learn topic "Space Architecture." Our AIAA-Houston Guidance, Navigation and Control technical committee organized his visit.

The Space Architecture program was started at the University of Houston in 1987 with the formation of the Sasakawa International Center for Space Architecture (SICSA). The Space Architecture undergraduate program is a 5-year program which includes a ground based 4th year project, and a 5th year aerospace project. The new graduate program was created at the request of NASA, Boeing, and USA employees, and consists of a two-year masters degree. Students from many different undergraduate backgrounds may pursue this graduate degree part-time while working full-time at their current jobs.

"Space Architecture" is a holistic plan that considers how all parts of an aerospace system can be structured to create an integrated design. It is an integrated process that is worked with the client to achieve project goals. Everyone involved in a space architecture project considers the entire system during development. It is a very effective way to either create a new system or make design changes to an existing system. Space Architecture has been in use since 1979, and has received much recognition in recent years due to a multitude of publications.

One system that was considered using space architecture was how to build a hotel, with artificial gravity, in space for 100 people. The guests would require transportation to and from the hotel, and would enjoy a trip around the moon as part of their stay.

Another system considered with this holistic approach is how to conduct a mission to Mars, utilizing either nuclear or solar power.

The Space Architecture graduate program at the University of Houston is currently in the progress of accreditation. Approval is expected shortly. The graduates from this program will be the first in world to earn this degree.

40th Anniversary for Houston Section?

By Michael Oelke, Chairperson

We need your help! We recently realized that this year marks the Fortieth Anniversary for the Houston Section of AIAA. A few of our founding members pointed out recently that an existing section of the American Rocket Society (ARS) was already present here in Houston in 1962. As a few of you may know, on February 1, 1963 the ARS and the Institute of Aerospace Sciences merged to become the American Institute of Aeronautics and Astronautics (AIAA). By virtue of the fact that the ARS section already existed, we automatically had an AIAA section starting in 1963. It was an exciting time....the Manned Spaceflight Center was just getting started and President John F. Kennedy's speech for going to the Moon was less than a year old. We'd like to hear from all of the people who over the years have been AIAA members, especially those who were officers, councilors, or committee chair in those early years. With your help we would like to contact as many 'alumni' as possible, wherever they may be today.

Please contact Norm Chaffee (norman.h.chaffee1AIAA@jsc.nasa.gov [remove AIAA from email](#)) or (281) 483-3777). We plan on having a Fortieth Anniversary Reunion in November.

Looking for New Qualified Technical Committee Members

By Douglas Yazell, Vice Chair, Technical

We are always looking for qualified new members in our technical committees, including young professionals and those who are considering specializing in a related field. For example, we now have five members from five different companies on our GN&C technical committee, and we will probably invite a recent graduate (B.S. degree) to join us. He is not yet employed after his recent graduation, but he has years of work-related experience.

I will be working hard to be of service to our Houston AIAA technical committees and the all of AIAA, especially in the Houston/Clear Lake area. The focus of the technical committees is always on the state of the art for the next three to five years, but our charters leave us plenty of room to detour to summaries of past work and many other subjects. For examples of goals for our technical committees, please visit our Houston AIAA web site, <http://www.aiaa->

houston.org ("section" link, then "committees" link). We mirror the related national AIAA technical committees and interact with them. Recent lectures by university professors and Clear Lake area engineers have helped us attract large crowds (twenty to seventy people) to lunch-and-learn presentations at NASA/JSC.

Our Houston GN&C technical committee has upcoming lunch-and-learn presentations in work, including one by Dr. Valasek of Texas A&M University.

By standing on the shoulders of past holders of this office, I will work to continue their successful traditions, helping each Houston technical committee to have an active year which will be rewarding for them and others in many ways. I will often call last year's vice chair- technical, Shirley Brandt, for advice, as well as contacting others for advice and help.

One suggestion has already been presented to me, a discussion panel for the planned Orbital Space Plane (OSP). Another suggestion is now being implemented- a dinner social for members of the Houston technical committees and the members of the national technical committees who live in this area.

Our engineering and scientific work continues to encourage an international community, speaking a language that transcends nations and cultures, while respecting proprietary and security concerns. I will continue working to attract lecturers from this diverse and international group, including university professors and their students.

Houston is one of only two AIAA sections that has local technical committees. Here is the list of our current technical committees:

1. Astrodynamics
2. Automation & Robotics
3. International Space Activities
4. Communication & Tracking
5. In-Space Imaging
6. Propulsion
7. Guidance, Navigation & Control
8. Safety, Reliability & Quality Assurance
9. Life Sciences & Space Processing
10. Extra-Vehicular Activity
11. History (open)
12. Space Science & Astronomy (open)
13. Systems Engineering (open)

Join us and help us continue to make this volunteer work fun, challenging, and rewarding!

Call for Nominations for National Awards

by Dr. Rakesh Bhargava, Honors & Awards Chair

The AIAA is now accepting nominations for the following 2003 awards. The deadline date for the awards listed below is **1 October 2003**.

Goddard Astronautics Award is the highest honor AIAA bestows for notable achievement in the field of astronautics. It was endowed by Mrs. Goddard to commemorate her husband, Robert H. Goddard-rocket visionary, pioneer, bold experimentalist, and superb engineer, whose early liquid rocket engine launches set the stage for astronautics.

Reed Aeronautics Award is the highest award an individual can receive for achievements in the field of aeronautical science and engineering. The award is named after Dr. Sylvanus A. Reed, the aeronautical engineer, designer, and founding member of the Institute of Aeronautical Sciences in 1932.

Dryden Lectureship in Research was named in honor of Dr. Hugh L. Dryden in 1967, succeeding the Research Award established in 1960. The lecture emphasizes the great importance of basic research to the advancement in aeronautics and astronautics and is a salute to research scientists and engineers.

Aeroacoustics Award is presented for an outstanding technical or scientific achievement resulting from an individual's contribution to the field of aircraft community noise reduction.

Aerodynamics Award is presented for meritorious achievement in the field of applied aerodynamics, recognizing notable contributions in the development, application, and evaluation of aerodynamic concepts and methods.

Aerodynamic Measurement Technology Award is presented for continued contributions and achievements toward the advancement of advanced aerodynamic flowfield and surface measurement techniques for research in flight and ground applications.

Aerospace Design Engineering Award is presented to recognize design engineers who have made outstanding technical, educational or creative achievements that exemplifies the quality and elements of design engineering.

Aerospace Software Engineering Award is presented for outstanding technical and/or management

contributions to aeronautical or astronautical software engineering.

Air Breathing Propulsion Award is presented for meritorious accomplishment in the science or art of air breathing propulsion, including turbo-machinery or any other technical approach dependent upon atmospheric air to develop thrust, or other aerodynamic forces for propulsion, or other purposes for aircraft or other vehicles in the atmosphere or on land or sea.

Distinguished Service Award gives unique recognition to an individual member of AIAA who has distinguished himself or herself over a period of years by service to the Institute. (Current or past national officers and directors are ineligible for this award.)

Engineer of the Year Award As a result of the discussion, it was determined that the scope of the award should read "To an individual member of AIAA who has made a recent significant contribution that is worthy of national recognition." The idea of this award is to "capture the moment."

Fluid Dynamics Award is presented for outstanding contributions to the understanding of the behavior of liquids and gases in motion as related to need in aeronautics and astronautics.

Ground Testing Award is presented for outstanding achievement in the development or effective utilization of technology, procedures, facilities, or modeling techniques or flight simulation, space simulation, propulsion testing, aerodynamic testing, or other ground testing associated with aeronautics and astronautics. For this award, please ensure that the package includes a chronological history of the nominee's contributions to ground testing, data such as patents, awards, and publications to support the write-up, and at least three letters of endorsement from outside the nominee's parent organization.

International Cooperation Award is presented to recognize individuals who have made significant contributions to the initiation, organization, implementation and /or management of activities with significant United States involvement that includes extensive international cooperative activities in space, aeronautics, or both.

Jeffries Aerospace Medicine and Life Sciences Research Award is presented for outstanding research accomplishments in aerospace medicine and space life sciences.

Plasmadynamics and Lasers Award is presented for outstanding contributions to the understanding of the physical properties and dynamical behavior of

matter in the plasma state and lasers as related to need in aeronautics and astronautics.

Propellants and Combustion Award is presented for outstanding technical contributions to aeronautical or astronautical combustion engineering.

Public Service Award honors a person outside the aerospace community who has shown consistent and visible support for national aviation/space goals.

Structures, Structural Dynamics and Materials Award is presented to an individual who has been responsible for an outstanding recent technical or scientific contribution in aerospace structures, structural dynamics, or materials.

Survivability Award is presented to recognize outstanding achievement or contribution in design, analysis implementation and/or education of survivability in an aerospace system.

Sustained Service Award was approved by the Board of Directors at the January 1999 meeting. The award is to recognize sustained, significant service and contributions to AIAA by members of the Institute. Send nominations to the West Coast Office.

Theodore W. Knacke Aerodynamic Decelerator Systems Award is presented to recognize significant contributions to the effectiveness and/or safety of aeronautical or aerospace systems through development or application of the art and science of aerodynamic decelerator technology.

Thermophysics Award is presented for an outstanding singular or sustained technical or scientific contribution by an individual in thermophysics, specifically as related to the study and application of the properties and mechanisms involved in thermal energy transfer and the study of environmental effects on such properties and mechanisms.

von Kármán Lectureship in Astronautics honors Theodore von Kármán, world famous authority on aerospace sciences, it recognizes an individual who has performed notably and distinguished himself technically in the field of astronautics.

William Littlewood Memorial Lecture honors William Littlewood who was renowned for the many significant contributions he made to the design of and operational requirements for civil transport aircraft. He was an active participant in educational, governmental, and engineering society affairs, and was the only person ever to be President of both the Society of Automotive Engineers and the American Institute of Aeronautics and Astronautics. To perpetuate his memory, many of his friends requested

SAE and AIAA to sponsor a series of lectures to be known as the “William Littlewood Memorial Lecture”.

Wyld Propulsion Award is presented for outstanding achievement in the development or application of rocket propulsion systems.

NOTE: All award nominations must be submitted on the AIAA nomination form. A summary of the nominee’s accomplishments must accompany this nomination form. Additional pages may be used to provide the nominees justification, education, professional assignment, honors, etc. The nomination must be supported by a minimum of three and a maximum of five letters of endorsement. Nominations involving more than one individual should be combined. The submitted material should not exceed ten (10) pages. To request a nomination form, please contact Aimée Petrognani, Honors and Awards Liaison, at 703/264-7623 or via e-mail at aimeepAIAA@aiaa.org. (remove AIAA from e-mail address)

Dayton Airshow 2003

By: *Joy Conrad King, Precollege Chair*
Steve King, Publicity & Evolution of Flight Chair

With clear blue skies, temperatures in the upper 70’s, and low humidity, you couldn’t have asked for a better day for an airshow. That is exactly how we spent one Saturday this summer in Ohio’s Miami Valley. The 2003 edition of the Dayton Air Show was expanded to four days, running July 17 – 20, at the Dayton International Airport to help celebrate 100 years of powered flight. It was their largest ever and proclaimed to be the “World’s Largest” airshow covering some 135 acres, 100+ planes on display, and non-stop aerial demonstrations throughout each day. The four day estimated attendance was 160,000 surprising even the event organizers and filling the available onsite parking for the first time in the event’s 20+ year history. Organizers were able to quickly recover by obtaining permission to use the parking lots of some area businesses.



Flyable Wright “B” Flyer replica.



Aeroshell Aerobatic Team (AT-6 Texans)

Of course what drew everyone this year (including several AIAA Houston Section members) was the 100-year anniversary of Orville and Wilbur Wright’s first historic flight of December 17, 1903. Although their first flight occurred on the wind swept coast of North Carolina, they did all of their airplane research, construction, and later airplane refinement in their hometown of Dayton, Ohio. The town’s pride in their aviation heritage is evident from the Wright Glider carpet covering the airport to the Wright sculptures downtown. Even the state of Ohio has the Wright Flier on its license plate.

The Canadian Snow Birds, USN Blue Angles, and USAF Thunderbirds grabbed most of the airshow headlines each day with their performances; but the crowds were also awed by the aerial feats of air racers, various acrobats (e.g., Patty Wagstaff), WWI & II and Korean War combat reenactments (including a Guinness World Record 5000 ft pyro flame trench), the US Army’s Golden Knights parachute team, flying Bleriot and Wright “B” Flyer replicas, and demonstrations by some of today’s military aircraft (P-3 Orion, S-3B Viking, F/A-18E/F Super Hornet, F-15 Eagle, F-117 Nighthawk, and AV-8B Harrier II). In the afternoon, many companies and organizations had displays there (including a large NASA presence), and there was also a large display of several static Wright Flyer replicas.



US Air Force Thunderbirds in a six-ship delta formation (F-16C Fighting Falcon)

The Orbis DC-10 was also there on display where visitors could tour their mobile operating rooms used for sight saving surgeries around the world – for free. Attendees on Saturday were also treated to a B-2 Spirit fly-over (a little late, but quite impressive). Many attendees sought shelter from the sun under the wings of large static aircraft such as a AC-130 Spectre, B-1B Lancer, B-52 Stratofortress, C-17 Globemaster III, C-141 Starlifter, and NASA's Super Guppy.

In addition to the airshow, "Celebration of Flight" Central in downtown Dayton provided visitors with more Century of Flight displays as well as entertainment and activities for kids. If that wasn't enough, visitors could also spend time going through the United States Air Force Museum at nearby Wright Patterson Air Force Base. It is the world's largest and oldest military aircraft museum holding 6,000 United States Air Force historical property items including approximately 200 aircraft and missiles. Also near the museum is a monument marking the Huffman Prairie Flying Field where the Wright brothers perfected their aircraft from 1910 – 1916.

Dayton really put on a great show. Kitty Hawk now has the tough task of following Dayton's lead and closing the Centennial Year of Flight with their festivities in December. Then both cities will have a have a collective sigh of relief!

Photo captions:

Glider Workshop on October 4th

By Joy King, Pre-College Education Chair

The AIAA Houston Section will hold a Glider Workshop Saturday, October 4, 2003 at the NASA-JSC Gilruth Pavilion from 9:00 am to 12:00 pm. Approximately 100 elementary and middle school students will get a chance to learn about aviation and

then build, fly, and take home their own glider in celebration of the Wright Brother's 100th anniversary of the first powered flight. The event is free and open to the public, and you can register your children at precollegeAIAA@aiaa-houston.org (remove AIAA from e-mail address).

Discount Wings Over Houston Tickets

The Houston Section has an opportunity to buy adult one-day Wings Over Houston tickets for \$10 (\$5 off regular admission). The airshow will be held October 18-19 at Ellington Field. If you are interested in these tickets send e-mail to precollegeAIAA@aiaa-houston.org (remove AIAA from e-mail address). Reserve early – tickets are limited.

Fly-In & JSF Speaker at the Lone Star Flight Museum on October 7th

By Steve King, Evolution of Flight Chair

The Houston Section will host a dinner meeting on Tuesday, Oct 7, 2003 at the Lone Star Flight Museum (Galveston, Texas; www.lsfm.org). Paul Metz, Lockheed Martin Vice President - F-35 Integrated Test Force and former F-22 Raptor Chief Test Pilot, will be speaking on "The F-35 Joint Strike Fighter (JSF)." Registration, social, & museum viewing begins at 5:30 pm, followed by dinner at 6:45 pm, presentation at 7:15 pm, and additional museum viewing till 9:30 pm.



JSF in hover mode tests

The Museum's gift shop will be open during the event. Lockheed Martin will also have displays on the JSF and their other aeronautical programs plus giveaways. This event is open to the public, all are welcome. Reservations will not be required for attending the program only. Watch for a coming flier giving directions, menu, pricing (around \$5), and the RSVP deadline. In the meantime, please contact Steve King, Evolution of Flight Chair, at 281-483-4359 or steven.r.king1AIAA@jsc.nasa.gov (remove AIAA from e-mail address), for additional details.

In addition, the Section is entertaining the idea of making the event a fly-in and offering limited avgas reimbursement to members who fly their planes to Scholes Intl Airport. We would also encourage members to "plane-pool" in the spirit of celebrating the upcoming Wright Brother's 100th anniversary of the first powered flight. Also contact Steve King for additional information.

Need Speakers for TAMU

By Michael Oelke, Chairperson

The Texas A&M AIAA Student Branch has requested volunteers to speak to their student section at their upcoming meetings. Presentations can be up to approximately one hour in length and would be between 7 and 9 PM on 9/9, 9/23, and 10/14.

Topics they are particularly interested in are:

- Propulsion: Current solid rocket boosters and an outlook on the future of propulsion for space vehicles.
- Someone to speak on the Shuttle TPS and efforts to enhance it.
- Any presentations on UAVs
- Advanced materials: Developments in nanotubes, SMAs, and future materials for the aerospace industry.

Please contact Jay Bradshaw, the TAMU Programs Chair, if you are interested. His e-mail is: jaybradshawAIAA@neo.tamu.edu (remove AIAA from the e-mail address) or you can call him at 979.575.9959. He's even offered to take guest speakers golfing or on a tour of the campus!

Calendar of Events

September 2003

18 Tour of JSC facility and membership drive

October 2003

4 Glider Workshop
7 AIAA Fly-in in Galveston
8 JSC Safety Day
18 Wings over Houston

November 2003

20 Dinner Meeting (40th anniversary)

December 2003

11 Dinner meeting (TBD)
17 Wright Brothers Centennial of Flight Anniversary

January 2004

5 – 8 42nd Aerospace Sciences Mtg (Reno)
22 Dinner Meeting

February 2004

20-22 Mars Settlement Design Competition

March 2004

5-6 Mars Settlement Design Competition
23 Dinner Meeting – Dr. John Lienhard

April 2004

22 Dinner Meeting

May 2004

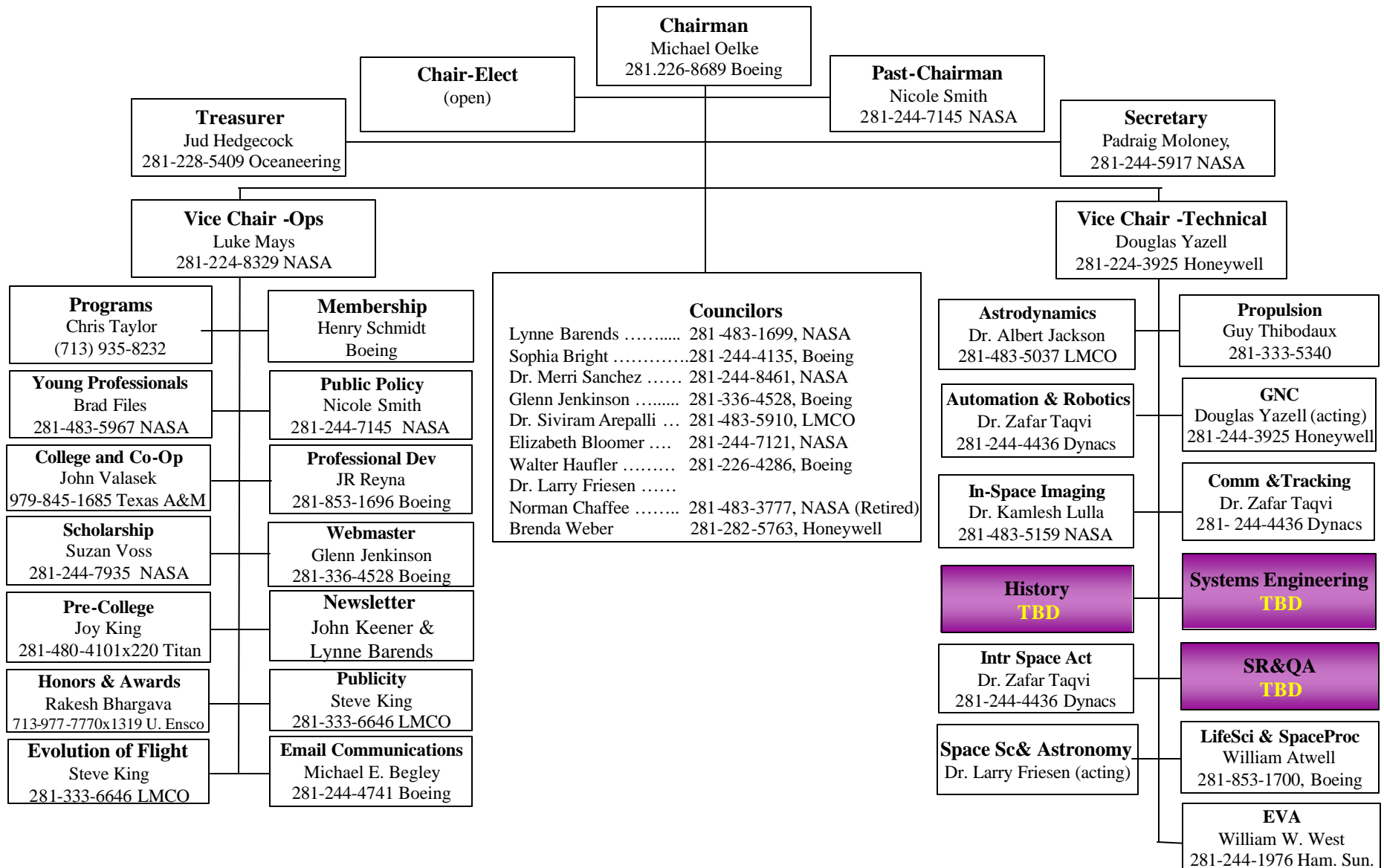
20 Dinner Meeting

June 2004

17 Awards Banquet

AIAA Houston Section Executive Council for 2003-2004

as of 19 Aug 2003





Houston Section

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