

MARS Settlement Design Competition



Executive Council Officers at the Mars Settlement Design Competition. See Page 6 for details

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.

March 21 Input Deadline for the Next Edition of *Horizons*

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

Features

<i>Want to get more involved in AIAA</i>	3
<i>The Region IV Student Paper Competition</i>	4
<i>Students Look ahead To Future Cities During Engineering Competition</i>	4
<i>Dr. Merri Sanchez Candidate for Region IV director</i>	6
<i>Fifth Annual Mars Settlement Design Competition Is A Big Success!</i>	7
<i>Associate Fellow and Fellow Upgrade</i>	7
<i>Keep an eye out for some upcoming events</i>	8
<i>Welcome New Members</i>	8
<i>2003 Annual Technical Symposium</i>	9
<i>Lunch and Learn – Geometry of Sun Tracking from Earth Orbit and Related Orbit Simulation Initialization</i>	9
<i>AIAA Electronic Distribution list</i>	10

In Every Issue

<i>Chair's Corner</i>	3
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Horizons is the monthly newsletter (except for the months of July and August) of the Houston Section of the American Institute of Aeronautics and Astronautics. It is created by members of the Houston Section and reproduced at the Houston Offices of Lockheed Martin. Opinions expressed herein, other than by elected Houston Section Officers, are those of the authors and do not necessarily represent the position of AIAA or the Houston Section. Please address all correspondence to the Houston Section Chairman, Nicole Smith. Phone 281-244-7145; e-mail chairAIAA@aiaa-houston.org. (remove AIAA from e-mail address).

Chair's Corner

As members of Region IV for AIAA you should have received a package from the National Elections Committee presenting the candidates for the AIAA Board of Directors. This package also included a special ballot for the Region IV Director due to the recent death of Mr. Russ Filler. Per the AIAA Constitution an election is required to fill a regional vacancy. Dr. Merri Sanchez will be running unopposed to fill the remainder of the term, serving from May 2003 to May 2004. An election on the regular Region IV director cycle will be held in 2004.

In addition to the Region IV Director, the following positions are included in this round of elections:

- President – Elect
- Vice President – Elect, Education
- Vice President – Elect, Public Policy
- Director – International
- Director – Technical, Structures Design & Test Group
- Director – Technical, Aerospace Sciences Group
- Director-at-Large
- Director – Region III
- Director – Region VI

Please review the candidates' statement of goals and biographical information before casting your votes.

Be sure to send in your ballot as soon possible so that Dr. Sanchez and the other directors are in place by the May 2003 Board of Directors meeting. **The ballots must arrive at AIAA by March 26, 2003.**

If you have any questions or concerns regarding the election please do not hesitate to contact Julie Albertson, Chair of the 2003 Elections Committee at 719/333-2612 or Julie.AlbertsonAIAA@usafa.af.mil. (Remove AIAA from e-mail address)

Best regards,

L. Nicole Smith
Chairperson, AIAA Houston Section

Want to get more involved in AIAA? We have some opportunities...

By Sophia Bright, Vice-Chair of Operations

Have you been interested in wanting to do more with your local section of AIAA but just did not know where to begin or how to get involved? Well here is your chance to do just that. We have a few council positions that are open and need to be filled by some motivated and enthusiastic individuals. Those positions are:

Program Chairman - responsible for organizing and conducting regular and special programs for the Section.

Newsletter Editor – responsible for collecting and reviewing submitted articles and then laying the articles out for print.

Evolution of Flight Chairman – responsible for coordinating Evolution of Flight Activities in support of the Evolution of Flight Centennial.

If you have additional questions relative to those positions please contact Sophia Bright, Vice Chair Operations, at 281-461-9300, Ext 234.

We also have a few subcommittee chair positions available on the Technical Committee. Those subcommittees are History, Space Science & Astronomy, and Systems Engineering. Please contact Shirley Brandt, Vice Chair Technical, at 281-483-6609 if you are interested in those areas.

Also if you are interested in getting involved at lower level of commitment we always have activities going on through out the year. Feel free to contact Sophia Bright. Or, just keep an eye open for future announcements indicating when we are in need of help.

The Region IV Student Paper Conference is coming to Houston! April 3 - 5th, 2003

By Michael Oelke, Chair Elect

The Houston Section and the Texas A&M Student Branch are proud to announce the 51st Annual Region IV Student Paper Competition! Education has always been a key aspect of AIAA's charter, and the Student Paper Conference is certainly one of the best events. Each year the Region IV SPC offers local undergraduate and graduate students an opportunity to present their research and be awarded for their achievements. While the conference rotates between the various host sections throughout the Region, this year it returns to the Houston Section and is being held at the University of Houston Main Campus.

37 students from the four state area have already enrolled and will be traveling here to compete for cash prizes and the opportunity to advance to the national competition. Their papers will be judged both on the written content and on their oral presentation of their topic. While the competition papers are separated by the undergraduate and graduate technical categories, papers may also be submitted for historical topics and design team projects. While these last two categories do not usually receive prizes, since this year marks one Century of Flight we are planning to present additional awards to both the best history paper and the best design team paper.

The Houston Section is a nationally recognized Section for our outstanding education programs and we consider the SPC to be one of our most important events. Our success each year depends on our members who volunteer to support the event. We currently need technical judges for both the written and the oral portions of the competition, as well as people interested in providing general support during the event (registration, etc.) Each year presents an opportunity to meet student members and their faculty advisors from across the region and to watch the next generation of aerospace professionals hone their skills.

We welcome you to join us! Please contact Michael Oelke ((281) 228-5410) for details.

Students Look Ahead To Future Cities During Engineering Competition

By Dr. Zafar Taqvi, Automation & Robotics TC Chair

Anyone searching for evidence of vision and promise among America's young people need look no further than the 2003 National Engineers Week Future City CompetitionTM, where tens of thousands of seventh- and eighth-graders from more than 1,000 schools have been using the full force of their knowledge, imagination and skills to creatively approach the challenges of today and tomorrow.

The very real and serious concerns of the world -- pollution, global warming, security, overpopulation and others -- are no less serious to America's middle school students than to adults. But, across the country, students participating in this educational engineering program report that Future City is helping them understand how to handle these problems, through high-tech solutions such as biotechnology and nanotechnology.

Begun in 1992 by the National Engineers Week Committee, a consortium of more than 100 engineering societies and corporations, as a way to raise awareness and appreciation of engineering among young people, Future City has evolved into one of the most successful not-for-profit educational programs of its kind.

Students start the competition in the fall, designing three-dimensional and computer city models. They also must write a 100 to 200 word abstract on their city and a 300 to 500 word essay solving an engineering problem. This year's essay theme is the promise and limitations of biotechnology in reducing pollution. Then they present and defend their design to a panel of judges at the competition. Local schools compete in one of 31 regions across the country in January. Regional first place teams win all-expense paid trips to Washington, D.C. for national finals during National Engineers Week, February 16-22, 2003.

The optimism of these young people comes even as they are fully aware of such extraordinary challenges as global warming and rapid loss of natural resources. It is within those distinctly harsh parameters, in fact, that they are devising realistic -- and often brilliant -- designs of an urban reality that expects tomorrow to be better than today.

To build their computer models, Future City participants use SimCity 3000 software donated to all the schools by Maxis Corporation of Walnut Creek, Calif. But, as one of the student team member pointed out, this is more than a computer game. "It has more to do with the future," he says. "With Future City, there's always something new. We have new problems to solve. There's always something that requires a lot of brain work."

Though Future City is part of an increasing number of middle school curricula, most students participate through after-school programs. For a student to spend after-school hours, weekends, and school breaks not only willingly, but eagerly working to engineer nanotechnology schemes for a city of the future may seem odd at first glance, but for teachers involved with the program, it's precisely the rigorous demands of Future City that make it so popular. Teachers throughout the competition tell interesting stories about their involvement in the competition.

Volunteer engineers are also there to guide each team of young people as they make decisions about infrastructure, zoning, human resources and all the other variables that touch the lives of everyone. "These students are getting lessons in how real cities successfully function and the crucial role engineering has in that success," says William Waldron, an electrical engineer at Cingular Wireless in Philadelphia and mentor to the team from Drexel Hill Middle School in Drexel Hill, Pa. "Once they see how engineers are at the heart of what's happening, it's often the first step toward them taking an interest in an engineering career."

Along with that dedication and determination, teams across the country say Future City makes math, science and social studies come alive with real-life perspectives. "In math class I always asked, 'How can we use what you're teaching us?' and my teacher always drew a blank," says Jody Lang, an eighth-grader on the Future City team at St. Francis of Assisi in Tonawanda, New York. "In class all you do is look at the board and learn how to do it, but you never really apply it. In Future City you take the stuff you learn and see the effects."

At Lionville Middle School in Exton, Pa., 13-year-old David Jacobson has a similar take. "I like Future City because it's fun. It's school-related, but it's more interesting. You get to take the math stuff you learn in school and apply it." As part of his school's Future City effort, David and his teammates are also using a professional CAD program donated by Bentley Systems, an engineering software company based in Exton and the Future City national finals host.

Though only a small percentage of students win at the regional and national level, most agree that the program is worth it just for skills and talents it allows them to use -- and not just in math and science. "I like working with my friends," says Makyra Pennyfeather, an eighth-grader at I.S. 123 in the Bronx, New York. "I'm getting better at coordinating ideas with my friends and getting to know them."

Her teacher, Chris Goodings, notes that advancing team-building and interpersonal and social skills are among the finest qualities of the competition. "I enjoy seeing them make their presentations," says Goodings, who volunteers his time for the after-school Future City program because his school doesn't have the funding to pay him. "When they first started in September, they were afraid to get up on stage. Then they broke through a barrier. After that, they were even able to give a performance of their presentation to the school."

National Engineering Week Texas-Houston Regional Future City Competition was held on Saturday January 18th with 28 schools from the Greater Houston School Districts including the private schools, participating in the event. According to Dr. Zafar Taqvi, Texas-Houston Regional Coordinator, the competition provided a challenge to the 7th and 8th graders 'to expand their knowledge beyond their horizons, and develop cities for future using their creative vision. Students were challenged to bring in new ideas on the design and pursue innovative technologies. Their teachers and mentors played an active part in their development of critical thinking skills and problem solving'. The top three teams that won the Texas-Regional Awards were Rhiannon Future City from Atascosita Middle School, Humble ISD, Palm Island Future City from Duchesne Academy (a private School), and Solio City Future City from Southmore Intermediate School, Pasadena ISD. Clear Lake II Future City by Webster Intermediate School Clear Creek ISD and Persopolis Future City from Manvel Junior High Alvin ISD were other top winners. Houston Regional winners, Rhinnon City team consisting of 3 students (Matthew Clifford, Christina Tamayo, and Mark Thompson), teacher(John Baron), and mentor (John Medler) have received an all-expense-paid trip to participate at the National Future City Competition. First place national team wins a trip to U.S. Space Camp in Huntsville, Alabama, provided by national finals host Bentley Systems, Incorporated, a leading engineering software company. Second-place team receives a \$2,000 scholarship for the school's technology program, sponsored by the Society of Manufacturing Engineers. A \$1,000 scholarship for the third-place team's school technology curriculum is provided by The National Society of Professional Engineers. At the Regional competition, special awards were pro-

vided to other participating teams in special categories of Future Cities such as Best Manufacturing Zone, Most Creative Use of Material, Best Transportation System, Best Futuristic Design, Best Residential Zone, Best City Infrastructure Layout, Best Engineered Project, Best Space-Based Design, Best Computer Model, Best Physical Model, Best City-Human engineering Design, Architectural Excellence Award, the Best Use of Ceramics and Peoples Choice.



This year AIAA Houston Section sponsored Best Space-Based Design won by 'Llamatonfieldville', a city designed by Webster Intermediate in Clear Creek ISD. There were other thirteen special awards sponsored by many of the local businesses. Overall Texas-Houston Regional Award went to a city named Rhiannon designed by the Humble ISD's Atascosita Middle School. Picture shows Shirley Brandt, AIAA Houston Section Vice Chair-Technical with the winning team.

National Engineering Week Houston Regional Future City Competition is organized by Clear lake Council of Technical Societies and IEEE Galveston Bay Section with support from Texas Society of Professional Engineers and other local professional societies. Visit Houston Regional Future City competition at www.ghgcorp.com/ieeegbs/futurecity-houston, and national competition site at www.futurecity.org and contact Dr. Zafar Taqvi, Regional Coordinator at 281-244-4436 or Z.TaqviAIAA@ieee.org (Remove AIAA from email address) for any further details.

Dr. Merri Sanchez, Candidate for Region IV Director

Statement of Goals

"As director of Region IV, I will be an advocate for all of the Sections and members of AIAA in Region IV. I will work to strengthen each Section and to help professionals benefit from AIAA membership. I will work with Region and Section officers, industry, government, and the university communities to develop new relationships to benefit our professional and student membership. Specifically, I will work to:

- Increase communication between the Sections of the Region to better share what works in membership outreach and activities.
- Increase information on Region and national activities to the members in the region to ensure they are fully aware of all of the benefits and areas in which they can participate.
- Increase development of internet applications within the Region that can be shared and that are designed to provide better services to members. One example is a single Web site for information and registration for the Student Paper Competition.
- Convey the value and importance of AIAA membership to professionals and their management.

We must advocate continued growth within AIAA. Our challenge is to attract individuals, both from the traditional aerospace background as well as from other professional areas, into AIAA rather than allow them to pursue their own niched organizations. Only AIAA can enrich the opportunities for professional growth through the attraction and cross-pollination of varied disciplines. I will use my experience to help develop programs and activities that benefit the members of the region, to represent the region, and to form partnerships between industry, government, and academia to help continually develop our membership in the key areas of skill including leadership, managerial, technical, and networking."

Biography

B.S. in Aerospace Engineering, Texas A&M University; M.S. in Physical Science, University of Houston at Clear Lake; Master of Mechanical Engineering and Ph.D. in Industrial Engineering, University of Houston.

Currently serving as increment manager for the International Space Station Program at NASA Johnson Space Center. Responsible for the definition

and management of program requirements and objectives to be accomplished on orbit, including negotiating these requirements with the international partners involved in the space station, and for international coordination of vehicles visiting the space station. Previously held positions as assistant manager, Operations Office, International Space Station Program; deputy project manager, Operation of the X-38 Experimental Crew Return Vehicle; technical assistant to the chief, Astronaut Office; and Vehicle Integration test engineer. Twenty years of experience including management, operations, ground and flight test of human spacecraft. In addition, have taught master's level Astrodynamics as a distance learning course for the University of Colorado at Colorado Springs.

AIAA Activities

Associate Fellow, lifetime member, active since 1983. General Chair World Space Congress Education Activities (2002), Region IV Deputy Director for Education (2001-2003), member of Precollege Outreach Committee, member of Student Activities Committee (2001-2003), Chair of Houston Section (1999-2000), Houston Section Councilor (1996-1998, 2001-2003), Houston Section Vice Chair of Operations (1998-1999), Houston Section Secretary (1997-1998).

Honors

NASA Exceptional Achievement Medal (1991); Johnson Space Center (JSC) Director's Commendation (2002); JSC Certificate of Commendation (1994, 1990); JSC Outstanding Speaker Award (1993); multiple NASA and JSC Group Achievement Awards (2001, 1999, 1998, 1996, 1992); Superior Achievement Award (1991); AIAA Certificate of Appreciation for Outstanding Volunteer Contribution (1997); NASA Fellowship, Smith Management Program for Women (1992-1993); JSC Graduate Fellowship (1988-1989).

Other Activities

Active member of National Management Association and the Experimental Aircraft Association. Active pilot and is homebuilding an aircraft. Active in NASA educational outreach initiatives.

Fifth Annual Mars Settlement Design Competition Is A Big Success!

By Norm Chaffee, Councilor

The Fifth Annual Mars Settlement Design Competition, sponsored by AIAA - Houston Section, The Boeing Company, Dow Chemical, and JSC was held the weekend of February 21 - 23, 2003 at JSC. 157 students and 15 teacher/chaperones representing 54 different high schools and 34 different school districts - a new record for the competition, attended the Competition! The four student teams competed fiercely in designing a large base on Mars for almost 19,000 residents in a scenario set in the year 2063. The mission of the new settlement, named Dysonom after famed Princeton physicist, Dr. Freeman Dyson, was to begin terraforming operations on Mars. The winning student team/company was the group calling themselves Vulture Aviation - and they were led to victory by their CO-CEO's, April and Chris Vasquez (AIAA volunteers) and Patrick Smith - all from Boeing. Congratulations to the Vulture group, and to April, Chris and Patrick. Many other AIAA volunteers also gave of their time to make the competition a great success!

Associate Fellow and Fellow Upgrade Applications are Due Soon!

By Sophia Bright, Vice Chair - Operations

The deadline for submitting applications for Associate Fellow and Fellow nominations are coming up soon. The Associate Fellow nomination applications are due no later than April 15, 2003 to the Associate Fellow Grade Committee. AIAA Fellow Grade Selection Committee will be accepting nominations for Fellow upgrades through June 15, 2003.

The criteria for an AIAA member who would like to become an Associate Fellow are as follows:

1. The Associate Fellow is nominated as a member in good standing and shall be approved for upgrade by the Membership Committee. A maximum of 1 Associate Fellow for every 150 voting members may be upgraded annually. There is the potential for over 100 Associate Fellow upgrades nationally by the Membership Committee.

2. Nominees must be Senior Members of AIAA with at least 12 years of professional experience. Four years of post doctorate studies may be applied to your years of professional experience.

3. Associate Fellows are 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 and astronautics.

4. Nominees must also furnish three references of Associate Fellow grade or higher. The initial application due on April 15th must include the names of the references, but the actual reference forms no later than May 15, 2003.

All newly elected Associate Fellows will be announced December 1, 2003.

The criteria for selecting a Fellow nomination are as follows:

1. Persons of distinction in aeronautics or astronautics, and who have made notable valuable contributions to the arts, sciences, or technology and are of Associate Fellow status are eligible for nomination.
2. To complete the nomination package 5 references must also be furnished to the Fellow Grade Selection Committee. The references must be received by July 15, 2003. Each of the 5 references must be a current member of AIAA. Of those references one must be a Fellow and a second reference can be either another Fellow, a National Officer, Section Chairman, or Technical Committee Chairman. At least three of the references should be individuals that are outside the nominee's organization.

If you are interested in being nominated or know of someone who should be nominated for either an Associate Fellow or Fellow upgrade, please contact the Houston Section Honors & Awards Chair, Rakesh Bhargava at bhargavaAIAA@uei-houston.com (remove AIAA from e-mail address). You can also contact Peter Gabriel, AIAA Honors & Awards Liaison, at 703/264-7623.

Keep an eye out for some upcoming events!

By Sophia Bright, Vice-Chair of Operations

We have a lot things going on this spring and we hope to see you at our activities. Here are some of

the activities we are planning or supporting over the next few months:

- Science & Engineering Fair of Houston March 17th - 29th
- Fly-In Event at a local airfield in support of the Evolution of Flight Centennial towards the end of March
- Region IV Student Paper Conference in early April at the University of Houston
- Congressional Visits Day in early April in Washington DC
- FIRST Robotics competition
- Dinner meeting with Dr. David Criswell in mid-April
- Texas A&M AIAA Student Branch Banquet
- Lunch & learns coordinated by our Technical Committees
- Annual Houston Section Banquet in June with Dr. Jack Bacon
- Dinner meeting with Dr. Allan Tribble in mid-March

If you have ideas for other activities that you would like to see AIAA sponsor please contact me at 281-461-9300, Ext 234 or at sbrightAIAA@tietronix.com. (Remove AIAA from e-mail address)

Welcome New Members to Houston Section of AIAA

By Sophia Bright, Vice-Chair of Operations

On behalf of the Houston Section of AIAA, I would like to recognize and welcome several new and long-standing members to the Houston Section Professional Membership.

Mr. Marc Ciupitu
Mr. Marshall Cloyd
Mr. Jeffrey Hagen
Mr. Thomas Hatfield
Mr. William Helms
Mr. Yusef Johnson
Mr. Chris Madsen
Mr. Thomas Manning

Mr. Michael Martin
Ms. Tara Oaks
Mr. Stephen Oswald
Dr. Jacques Richard
Mr. James Rogan
Mr. William Rothschild
Mr. Carlos Westhelle

Welcome again to the Houston Section! The Houston Section currently has 890 members consisting of 683 professional members, 109 National Educator Associates, and 98 student members. Our size and diverse membership allows the Houston Section to potentially explore various opportunities for events and activities. We have several technical commit-

tees to satisfy your technical interests as well as several section sponsored social activities throughout the year.

If any of you would like to find out more about the organization please feel free to visit the section website at <http://jsc.nasa.gov/aiaa/>. Additionally there are a number of activities that we sponsor throughout the year and we encourage the participation of all of our members not only from the aspect of attending the activity, but also in planning and coordinating the activity.

If you have any ideas for activities or services you would like to see from this section please feel free to pass that information on to us. If you have specific Membership questions please feel free to the section Membership Chair. We are currently transitioning our Membership Chair position so you may either contact me, Sophia Bright, at 281-461-9300, Ext 234, or you can contact our section Membership Chair, Henry Schmidt at 281-244-4629. If you prefer to contact us by e-mail our addresses are sbrightAIAA@tietronix.com and henry.j.SchmidtAIAA@boeing.com, (Remove AIAA from e-mail address) respectively.

If you have specific questions regarding activities and other services please direct your questions to either myself or other members of the Executive Council.

2003 Annual Technical Symposium Announcement

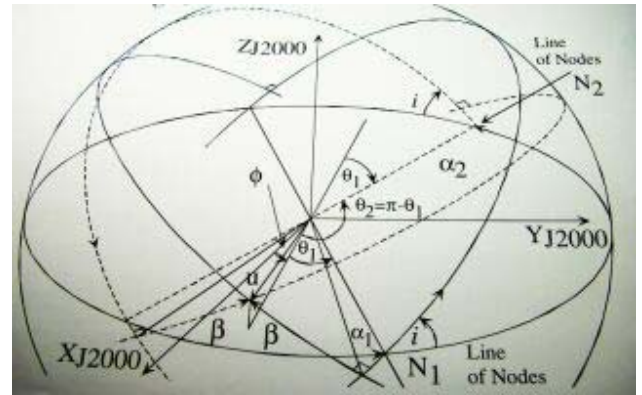
By Shirley Brandt, Vice-Chair of Technical

The Houston Section is planning to host the Annual Technical Symposium (ATS) in either May or June of this year. We are still trying to work out the specific scheduling details, but should have information coming out soon. Please keep an eye out for more information regarding the symposium later this month and into April.

If you have any questions regarding ATS or are interested in helping with the organization of the symposium please contact the Shirley Brandt, Houston Section Vice Chair–Technical, at 281-483-6609 or shirley.s.brandt1AIAA@jsc.nasa.gov. (Remove AIAA from e-mail address)

“Lunch and Learn” Geometry of Sun Tracking from Earth Orbit and Related Orbit Simulation Initialization

By Douglas Yazell, GN&C Chair



The Houston AIAA GN&C Technical Committee is sponsoring a “lunch and learn”, “Geometry of Sun Tracking from Earth Orbit and Related Orbit Simulation Initialization” on Wednesday, April 2, 2003, from noon to 1:00 pm at NASA/JSC building 16, conference room 113. Please join us, bring your lunch and a friend, and listen to Douglas Yazell discuss the properties of the solar beta angle (“angle between the sun line and orbit plane”) used by sun-tracking satellites such as ISS. This includes a time history of this angle over a typical year and looking down the line of nodes to estimate the maximum and minimum possible solar beta for any time of year. He will also discuss related orbit simulation initialization inputting date and time, orbit inclination, and solar beta angle and allowing the software to calculate the corresponding orbit ascending node angle(s). In fact, there are two such ascending node angles for each set of initial conditions. Three methods of deriving this result will be compared briefly: plane trigonometry (looking down the line of nodes), vector techniques using “rotation” matrices, and spherical trig.

Mr. Yazell is a senior member of AIAA and the chair of the Houston AIAA GN&C technical committee. He earned a BSEE in 1983 from USF in Tampa, FL, and a masters degree in engineering from the mechanical engineering department of UCI in Irvine, CA, in 1992. He has more than 20 years of service with Honeywell, International in Clearwater, Florida, Downey and Huntington Beach California, and Houston, Texas. He was a team member included

in NASA/JSC group achievement awards in 1986, 1995, and 2001.

If you plan to attend, please get in touch with Jeff Tave at 281-333-7007 or jeff.taveAIAA@lmco.com (remove AIAA from e-mail address) and leave your contact information. AIAA membership is not required. ***Please give at least a couple of days notice if you require JSC badging.***

The Houston AIAA GN&C technical committee is always looking for "a few good engineers". Please contact Mr. Jeffrey Tave (above) if interested, and take a look at our web page at www.jsc.nasa.gov/aiaa ("section links, committees").

AIAA Electronic Distribution List

While we try to capture all of the activities associated with AIAA in a timely manner in the newsletters, there have been times when we have not been able to use this medium to announce all of the activities either hosted or sponsored by the Houston Section of AIAA. We will continue to work on making sure that all of the information is presented in the newsletters with enough lead-time for our members to still participate in the events. In addition to that we suggest that you visit our website (www.jsc.nasa.gov/aiaa) on a regular basis and also take advantage of our Electronic Distribution list. We make sure to send out all of the information regarding AIAA activities using our Electronic Distribution list. If you are interested in receiving announcements regarding activities and events via electronic mail please contact Mike Begley at 281-244-4741 or Michael.e.begleyAIAA@boeing.com. (Remove AIAA from e-mail address)

Calendar of Events

March 2003

- | | |
|-------|---|
| 15 | Lone Star Flight Museum Hangar Dance (Galveston) Aerospace Sciences Meeting |
| 27-19 | Science & Engineering Fair of Houston (Reliant Arena) |

April 2003

- | | |
|----------|--|
| 10-12 | FIRST Robotics National Competition (Reliant Park) |
| 21 or 25 | AIAA Houston Section Dinner Meeting, Dr. David R. Criswell/University of Houston (TBD) |
| 26-27 | Lone Star Flight Museum Airshow (Galveston) |

May 2003

- | | |
|----|---|
| 1 | Space Day |
| 22 | Rotary National Award for Space Achievement Banquet (South Shore Harbour) |

July 2003

- | | |
|-------|---|
| 1 | AIAA Houston Section 2003/2004 Term Begins |
| 17-20 | Dayton (Ohio) Airshow |
| 25 | 25th Annual Lunar Rendezvous Space Run (Space Center Houston) |

August 2003

Ballanar Festival (JSC)

October 2003

- | | |
|-------|---|
| 18-19 | AIAA Houston Section Glider Workshop
Safety & Total Health Day (JSC)
Wings over Houston (Ellington Field) |
|-------|---|

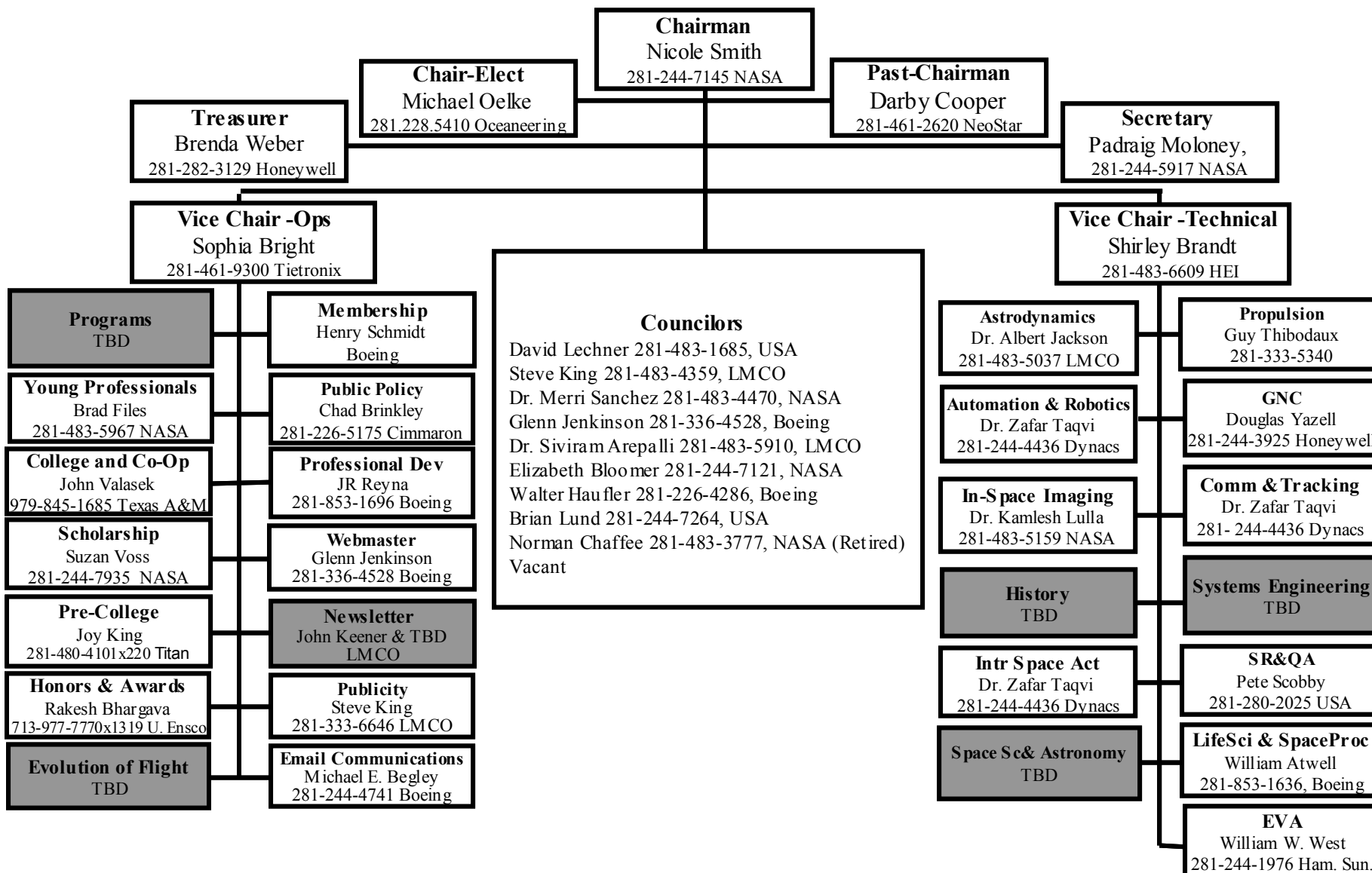
December 2003

- | | |
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| 17 | Wright Brothers Centennial of Flight Anniversary |
|----|--|

Houston Section Executive Council for 2002-2003

Org Chart

as of 06 August 2002





Houston Section

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Webster, TX 77598

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March 2003
