

Horizons

Houston, Texas

March 1995

Chairman's Corner

George Nield
Chairman

EVEN THOUGH THE CURRENT OFFICERS have several months left on our tours of duty, it's time to start thinking about how we ought to organize and who will be leading our activities in the year ahead. I have asked Don Probe, our Chairman-Elect, to review our Section Bylaws, with the goal of identifying any changes we might want to make, either in organizational structure or in policies and procedures, that would enhance our operations and allow us to better serve our members. In the meantime, I'd like to ask each of you to consider volunteering to serve in one of our leadership positions. I feel that we have had a very successful year to date, but it takes a lot of very energetic and dedicated people to keep things running smoothly. Printed below is a list of some of the duties of our various Section offices. The election is coming up in May. If you'd be willing to have us list your name on the ballot, or if you'd like to nominate someone else for one of these positions, please let me or Don Probe know. Once again, if you have any comments, complaints, or suggestions, please give me a call at (713) 483-1364, or send an e-mail to gnyield@jscprofs.nasa.gov. I'd love to hear from you!

Chairman: The Chairman shall be the Chief Executive Officer of the Section. The Chairman shall preside at all meetings and functions of the council and of the Section and represent the Section in dealing with outside agencies.


Chairman-Elect: The Chairman-Elect shall assist the Chairman in performing his duties as requested by the Chairman. He shall attend Executive Council committee meetings to monitor and become familiar with the functions of the Section officers and the Section committees. He shall coordinate with all officers, councilors, and committee

chairmen to prepare plans for the orderly transition for his term of office during the following year.

Vice Chairmen: The Vice Chairman-Operations and the Vice Chairman-Technical shall be members of the Council and responsible for conducting the detailed planning in their respective areas. (The VC-Ops oversees the activities of a number of different committees, including Programs, Membership, Education, and Publicity. The VC-Technical oversees the technical activities of the section, including especially the planning for the annual Technical Symposium.)

Secretary: The Secretary shall be a member of the Council and shall maintain minutes of all meetings of the Section and shall be custodian of all its records not specially assigned to others. The Secretary shall conduct the correspondence of the Section and the Council, send out all meetings notices and shall maintain an accurate membership list, with addresses.

Treasurer: The Treasurer shall be a member of the Council, shall have charge of the funds of the Section, and shall make all required financial reports and such expenditures as may be authorized by the Section or by the Council or by the Bylaws of the Institute.

Council: The Council shall consist of not less than four elected Members (we currently have ten, with six positions coming open this year), and the Chairman, Chairman-Elect, Vice Chairman-Operations, Vice Chairman-Technical, Secretary, Treasurer, and the Chairman of the previous year. The Council shall have general supervision of the work of the Section. The elected Council Members shall take office at the beginning of the administrative year (June 1) for terms of two years and shall continue in office until their successors qualify and take office. Council members shall be limited to two consecutive two-year terms. One council position in alternate years shall be set aside for a member who is under the age of thirty-one at the time of election. 

In This Issue...

Chairman's Corner	1
Membership	2
National Award Nominations	2
Committee News	3
Scholarship Program	4
Student Branch News	5
Call For Papers	5
Welcome, New Members	5
Crossword	6
Student Paper Competition	7
Cranium Cruncher	7
AIAA Calendar	8

Membership


**J. Clayton Shadeck, Chairman
Membership Committee**

ALTHOUGH WE HAVE MADE SOME PROGRESS in bringing on new members this year, we are unfortunately losing some as well. The membership database reports show that a number of people have not renewed their membership. I have sent them letters asking them to reconsider the benefits of membership. If your renewal date is coming up, please don't neglect this important action. We would miss you, and more importantly, you might miss out on some valuable opportunities for professional development and association with others in our field.

Horizons is the monthly newsletter 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 Engineering and Sciences Company. Opinions expressed herein, other than by elected Section officers, are those of the authors and do not necessarily represent a position of AIAA or of the Houston Section. Please address all correspondence to the Vice-Chairman, Operations, Mike Begley, Dynacs-HS-30, or to the Editor, Lou Livingston, 1911 Pepper Hill, Houston, TX.

To continue to encourage your help, the member-get-a-member offer will be extended through April. This means that any member who brings in a new member will receive a certificate good for free admission to a dinner meeting of their choice. You can win as many of these as members you sign up.

In addition, April's dinner meeting will be a special member-get-a-member event affiliated with the National AIAA. If individuals join at that meeting they can receive a \$10.00 discount from full membership dues. Professional members age 30 and under also receive a \$10.00 dues discount.

So thanks for all the help in recruiting members so far this season, and let's keep it going! 

3 Nominated for National Awards


**George Nield
Chairman**

EACH YEAR, THE AIAA PRESENTS a number of very prestigious national awards to individuals who have distinguished themselves in the performance of their work. Following a study by Palmer Chiu, our Honors and Awards Chairman, on the available awards and the many excellent candidates in our area, the AIAA Houston Section Council decided to nominate three very deserving individuals for national awards.

Clifford Hess was nominated for the Mechanics & Control of Flight Award, based on his work in developing the SAFER EVA maneuvering unit.

Bernadette Hajek was nominated for the DeFlorez Training Award for Flight Simulation for her leadership of the Shuttle Mission Simulator training team for the Hubble Space Telescope repair mission.

Brewster Shaw was nominated for the von Braun Award for Space Program Management, based on his outstanding leadership of the Space Shuttle program.

Winners of all three awards are expected to be announced in mid-April of this year. Congratulations to all of the Houston Section nominees. We're proud of you and your accomplishments! 

Committee News

MATLAB Workshop

Jayant Ramakrishnan
GN&C TC Chairman

IN COOPERATION WITH JSC Aeroscience and Flight Mechanics Division, the Guidance & Navigation TC is proud to present a one-day workshop on the MATLAB Real Time Simulation Environment on March 30, 1995, at the Center for Advanced Space Studies. The Mathworks, Inc., is well known for MATLAB and associated toolboxes ranging from control systems and neural networks to Simulink and Identification toolboxes. They have kindly consented to present this one-day workshop and demonstrations on MATLAB, Simulink, Real Time Workshop and advanced control design methods.


The workshop is free and is structured so that people can attend just the sessions of interest to them. For information, call John Sunkel, 483-8591, or Naz Bedrossian, 333-2127. The agenda for the workshop is as follows:

Morning Session:

- 9:00 Welcome & Introductions
- 9:10 Mathworks Corporate Presentation
- 10:00 MATLAB Demonstration
- 10:30 Simulink Demonstrations
- 11:00 Real Time Workshop
- 11:30 Questions & Answers
- 12:00 Lunch

Afternoon Session:

- Advanced Control Design Methods presented by Gary Balas
- 1:15 Mu Analysis and Synthesis Toolbox
- 2:15 Coffee Break
- 3:30 Questions and Answers
- 4:30 Adjourn


I encourage all interested members to make use of this opportunity to learn more about MATLAB and its associated toolboxes. These tools have been used successfully in the chemical engineering and automotive fields as well. Please send an e-mail to jayant@dynacs.jsc.nasa.gov or call any of our committee members with your inputs. 

Education/Career Enhancement Committee

Jayant Ramakrishnan
Education & Career Enhancement Chairman

THE EDUCATION & CAREER ENHANCEMENT Committee hosted the second Internet seminar at the Center for Advanced Space Studies on February 15, 1995. We also have some video cassettes for checkout from AIAA National archives. The video cassettes include two videos on the Mir space station, one on a special screening of the Discovery Channel's "The Space Shuttle," and one on the journey to Mars and beyond. These are available for checkout until the second week in March from Jeff Tave at 333-7007.

We also have some audio cassettes in our local section library which are very good. One set is on "The Seven Habits of Highly Effective People" by Dr. Stephen R. Covey. The second set, by Jack Canfield, is on "Self Esteem." These sets are very informative and are full of examples and anecdotes to illustrate the author's view. Please give Jeff Tave or Bill Best a call to check these out. We request \$1 per tape to defray the cost of postage.

There has been a growing interest and very good participation in all our functions. I would like to thank the AIAA membership for this support and encourage you to send me comments on what you would like to see in the near future. Please send your suggestions to any of our committee members or to me at jayant@dynacs.jsc.nasa.gov. 

Cabana Speaks at Lunch & Learn

Charles Teixeira
Space Transportation TC Chairman

THE SPACE TRANSPORTATION TECHNICAL COMMITTEE featured Col. Robert Cabana at a Lunch & Learn session on January 25th. Col. Cabana presented his views on the role of crew in "autonomous" transportation systems. The session was well attended and resulted in lively discussions on a controversial subject, particularly in view of proposed next generation vehicle and operations concepts. H



Robert Cabana, Chief of the JSC Astronaut Office, shares some of his views during a recent Lunch & Learn session sponsored by the Space Transportation TC.

Photo by George Nield

GN&C Lunch & Learns

Jayant Ramakrishnan
GN&C TC Chairman

THE GUIDANCE AND CONTROL TECHNICAL COMMITTEE had two very informative and well attended Lunch & Learn meetings at the Gilruth Center this year. The first was presented by Rob Hall of the Charles Stark Draper Laboratories on Mir Automaneuvering Logic. There was a lively question and answer session following the presentation.

The second Lunch & Learn, in conjunction with the Automation & Robotics TC, featured Docking and Berthing Dynamics of Large Spacecraft. It was given by Javier Benavente of Dynacs Engineering and included simulations on video of the Boeing docking mechanism and the Russian probe and drogue docking mechanism. The presentation was very well attended with plenty of questions after the presentation. H

Scholarship Program

Leon Swartz
Scholarship Chairman

FOR SEVERAL YEARS NOW the Houston Section has sponsored the *Spirit of Apollo* scholarship program which currently provides a \$1,000 scholarship each year. Applicants must have defined a scholastic plan that provides entry into some field of engineering or science pertinent to AIAA technical activities and must meet other specified eligibility requirements.

The *Spirit of Apollo* scholarship was established in 1988, and is funded from interest on monies the Section maintains in a local savings account. We initiate the selection process each year with a mail-out package to college and university financial offices in mid-February. Included in the package is a description of the application process, selection criteria, and application forms. This year's applications must be postmarked by May 1, 1995.

The Scholarship Committee evaluates the applications and selects the recipient for the following academic year. The successful applicant is notified in late May. The first half of the scholarship amount is mailed to the school's financial office at the start of the fall term; the second half is provided at the start of the spring term.

A copy of this year's application package is included in this issue of *Horizons*. For more information on the scholarship program, please contact Leon Swartz at 282-8136 during the day or 534-2380 in the evening. H



Student Branch News

JOEL KORKOWSKI, CHAIRMAN OF THE TEXAS A&M Student Branch of AIAA, reports that the branch is looking forward to hosting the Regional Student Paper Conference in April. He also noted that Aaron Cohen, former JSC Center Director and currently a professor in the Mechanical Engineering Department, would be the guest speaker at a student branch meeting on March 9. **H**

Call For Papers

Technical Symposium Planned

Kamlesh Lulla
Vice-Chairman, Technical

WE ARE IN THE PROCESS OF ORGANIZING OUR annual Technical Symposium. It will be held this year at the Center for Advanced Space Studies, 3600 Bay Area Blvd., from 8:30 AM to 4:30 PM. Following is a preliminary schedule of events.

Morning:

Opening Session

"The State of ISSA Activities," William Shepherd, ISSA Deputy Program Manager.

Panel Session 1

ISSA Vehicle, EVA, Assembly, etc.

Panel Session 2

ISSA International Partners

Lunch

Luncheon Keynote Address

Dr. Larry DeLucas, NASA Headquarters

Afternoon:

Panel Session 3

ISSA Science/Technology Issues

Concurrent Sessions

Other topics per response to call for papers

You are invited to submit your one-page abstracts by March 31, 1995. The focus of this symposium is "International Space Station Alpha: The Next Iteration." Other topics will also be considered for general sessions in the afternoon.

Abstracts will not be published this year. However, you are encouraged to send abstracts via e-mail to interested parties.

Please follow the following format for preparing your one-page abstracts:

Title:

Author(s):

Affiliation(s):

Text of abstract (not more than 400 words):

Keywords:

Please send your abstracts to Dr. Kamlesh Lulla, Vice-Chairman, Technical, AIAA Houston Section, Mail Code SN5, Johnson Space Center, Houston, TX 77058. **H**

Welcome New Members!

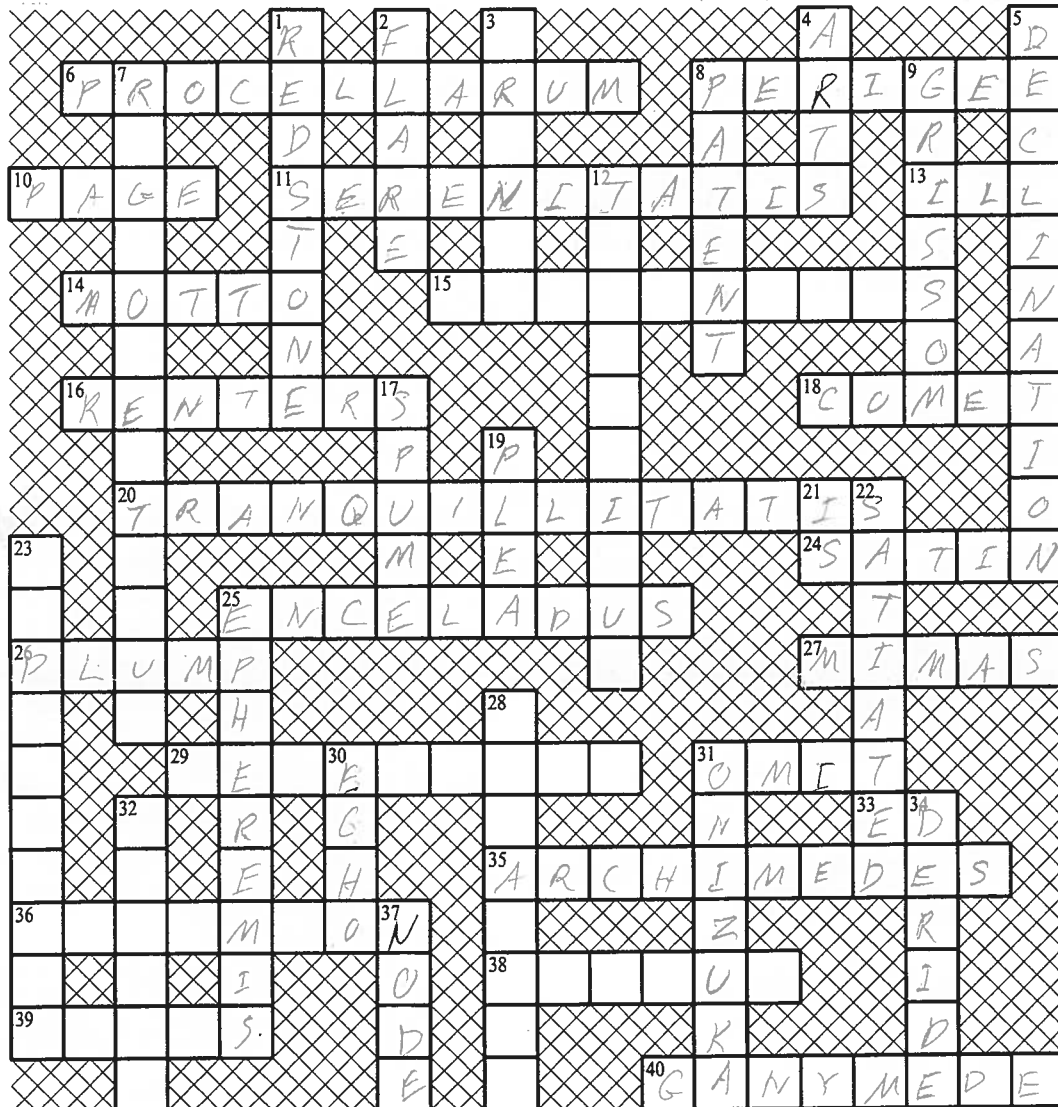
WE ARE PLEASED TO WELCOME three new members to the AIAA Houston Section: David Hohman, Gary Smith, and Lynn Wagner. We're glad to have you on the team! If you would like to know more about any of our local activities, please give one of our officers or Council members a call, and we'd be happy to fill you in. There are also a number of different committees that could use an extra volunteer or two, so please don't be bashful. Get involved right away! **H**



More than 80 Houston Section members and guests attended the special dinner January 27 at the Lone Star Flight Museum in Galveston.

Photo by George Nield

Crossword



Across

- 6. Lunar mare (50W, 18N)
- 8. How low can you get?
- 10. Leaf
- 11. Lunar mare (18E, 25N)
- 13. Not well
- 14. Adage
- 15. Lunar crater (20E, 10N)
- 16. Lodgers
- 18. "Dirty snowball"
- 20. Lunar mare (30E, 7N)
- 24. Smooth as —

Across

- 25. Second moon of Saturn
- 26. Chubby
- 27. First moon of Saturn
- 29. Far out?
- 31. Leave out
- 33. — White
- 36. Seventh moon of Saturn
- 38. English protection?
- 39. Bay, cavity
- 40. Third moon of Jupiter

Down

- 1. — Arsenal
- 2. Erupt
- 3. ASAP
- 4. — and sciences
- 5. Celestial latitude
- 7. Astronomer Johann Müller
- 8. Obvious
- 9. Astronaut Gus —
- 12. Lunar crater (26E, 12S)
- 17. Froth
- 19. Supplication

Down

- 21. Exists
- 22. Replete
- 23. Lunar crater (26E, 12S)
- 25. Astronomical almanac
- 28. High-powered?
- 30. Resound
- 31. Astronaut Ellison —
- 32. Add on
- 34. Laugh at
- 37. Ascending —

(Solution on page 9)


Judges Needed for Student Paper Competition

Michael Begley
Vice-Chairman, Operations

THE HOUSTON SECTION WILL HOST the 43rd Annual Region IV Student Paper Competition, held the first weekend of April at the College Station Ramada Inn at Texas A&M University. Texas A&M students will serve as conference co-hosts. About 90 students from seven southwest region universities will be in attendance.

One of the section's primary responsibilities will be to evaluate the students' papers and presentations. We strive to have each paper read by three judges who are familiar with the paper's area of study. A list of paper topics will be compiled once abstracts are received (by mid-February). We will distribute this list via e-mail and our normal flier distribution channels. The papers will be received by early March.

We also need to supply nine audio judges at Texas A&M on 7 April. Since paper presentations will be made from about 9:00 am to 4:30 PM, volunteer judges will be provided with a hotel room on Thursday night, and breakfast and lunch on Friday. Technical and audio judges will be provided with grading guidelines.

If you wish to judge one or more papers or serve as an audio judge, or if you wish to receive a copy of the abstract list, please call Tom Mulder at 244-4428. 

Cranium Cruncher

Lou Livingston
Editor

January Solution

AS NOTED LAST MONTH, Chris Varner, Ed Strong, and Chris Burmeister submitted correct solutions to the January Cruncher. After press time but within

the announced deadline, correct solutions were also received from Norm Chaffee, Walt Karakulko and Carl Scott.

February Solution

A clock hangs on a wall 8' high and 56' 2½" long. While waiting for the waning crescent moon to rise, it was noticed that the hour and minute hands were pointing in opposite directions and were parallel to one diagonal of the wall. What time was it?


The hour and minute hands are aligned every 12/11 hours, or 1 h 5 5/11 m. They are opposite each other halfway between these times; the first opposition after 12:00 is 6/11 h, or 32 8/11 m after 12:00. The second opposition after that, at 2 h 43 7/11 m, makes an angle of 81.71955° (approximately) with the vertical, so that the hands are parallel with the diagonal of the wall.

Another such opposition occurs at 9 h 16 4/11 m. However, a waning crescent moon (between third quarter and new moon) rises before dawn; the only possible solution, therefore, is 2:43:38 AM.

Since our schedule overlaps the deadline, the drawing for the free dinner will be deferred until next month.

March Cruncher

A farmer with nine sons had a farm in the shape of a square. When he died, his will specified that his farm was to be divided so that Alf, the eldest son, had the largest portion. The next four, Bud, Cal, Doc and Ed, each were to have half as much as Alf, and the last four, Frank, Gus, Hank and Irv, were to have half as much as Bud, Cal, Doc and Ed. The catch was that the boundaries must form nine squares, not counting the original square of the entire field; otherwise, the whole farm was to go to the SPEBQSA. Since the boys aren't music lovers, how can they divide the property?

Send your solutions to Michael Begley, Dynacs/HS-30, or to louliv@aol.com by March 27. A random drawing from the correct answers wins a free AIAA dinner. 

AIAA Calendar

The AIAA Calendar is intended to encompass all Houston Section events and significant dates. This includes Executive Council meetings, which are open to interested members, and *Horizons* deadlines. It will also include committee meetings, Lunch & Learns and similar events if *Horizons* hears about them in time for inclusion. Please send pertinent details to Mike Begley, Dynacs/HS-30, or to Lou Livingston, 1911 Pepper Hill, Houston, TX 77058.

March

9 - Thursday

AIAA Workshop on Automation and Robotics
1995 (WAR '95).
"Intelligent Robots."
Gilruth Center, 8:00 AM-1:30 PM
Information: Dr. Zafar Taqvi, 244-8662.

16 - Thursday

Executive Council meeting.
Center for Advanced Space Studies, 5:00 PM.

23 - Thursday

Monthly dinner meeting.
"Reality Bites: Investigative Reporting and the Age
of Political Correctness," John Getter.
Gilruth Center, 5:30/6:30/7:30.

27 - Monday

Human Support/Life Sciences TC Lunch & Learn.
"Human Support Challenges for Lunar/Mars Mis-
sion Planning," Dr. Mike Stanford, UTMB.
Gilruth Center, 11:30-12:30.

Horizons inputs for April due COB.

30 - Thursday

JSC Navigation, Control and Aeronautics Div.
Presentations & demos: The Mathworks; Sim-
ulink, Realtime Workshop, Toolboxes.
Center for Adv. Space Studies Lecture Hall, 9:00-
4:00.
Information: John Sunkel, 483-8591, or Naz
Bedrossian, 333-2127.

31 - Friday

Science Fair.

April

3-5 - Monday-Wednesday

Life Sciences & Space Medicine Conference &
Exhibition '95.
Westin Galleria.
Registration: (202) 646-7464.
Information: (800) 615-0198.

6-8 - Thursday-Saturday

AIAA SW Region Student Paper Conference.
College Station Ramada Inn.
Information: Tom Mulder, 244-4428.

13 - Thursday

Automation & Robotics TC Workshop on Automa-
tion & Robotics '95 (WAR '95).
Time and location TBD.
Information: Zafar Taqvi, 244-8662.

17 - Monday

Horizons inputs for May due COB.

20 - Thursday

Executive Council meeting.
5:00 PM, Center for Advanced Space Studies.

27 - Thursday

Monthly dinner meeting.
Program TBD.
Gilruth Center, 5:30/6:30/7:30.

May

11 - Thursday

Executive Council meeting.
5:00 PM, Center for Advanced Space Studies.

18 - Thursday

Monthly dinner meeting.
Program TBD.
Gilruth Center, 5:30/6:30/7:30.

CALENDAR (from page 8)

May (cont.)

19 - Friday

Annual Technical Symposium.

"International Space Station Alpha."

Center for Advanced Space Studies, 3600 Bay Area Blvd., 8:30-4:30.

Information: Kamlesh Lulla, 483-5159.

22 - Monday

Horizons inputs for June due COB.

June

15 - Thursday

Executive Council meeting.

5:00 PM, Center for Advanced Space Studies.

22 - Thursday

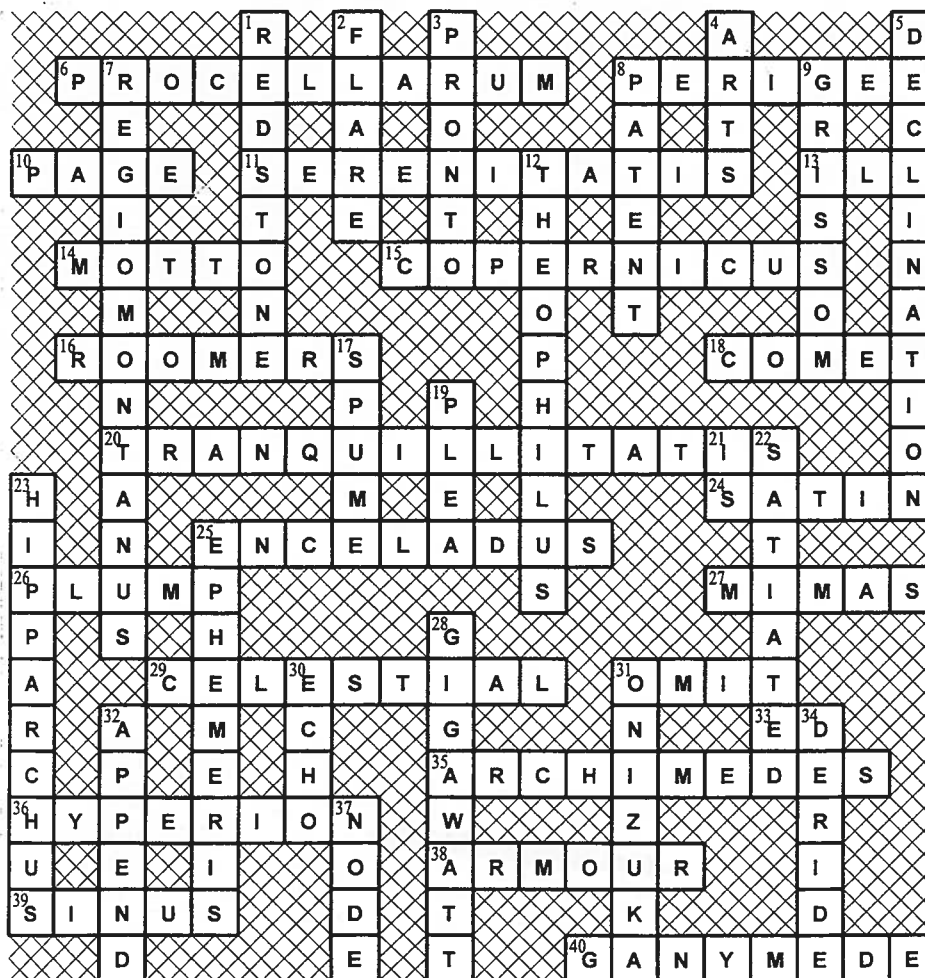
Monthly dinner meeting.

Honors and Awards Banquet.

Gilruth Center, 5:30/6:30/7:30.



Crossword solution:

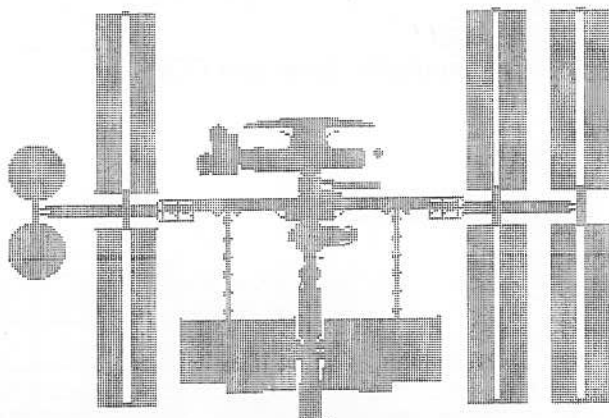
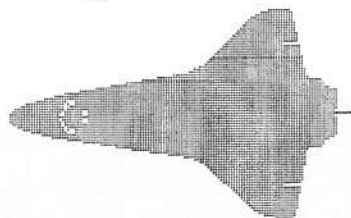
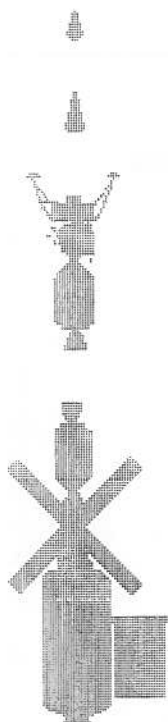




Horizons

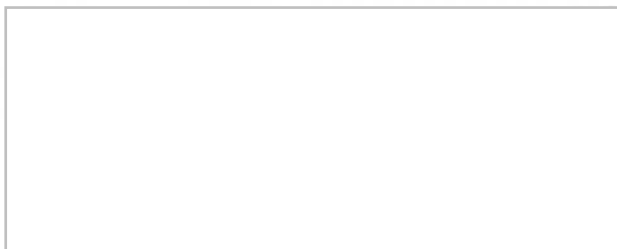
The mission of the Houston Section of the AIAA is to promote the advancement of the aerospace profession, with special emphasis on the following tasks:

- To provide the membership with opportunities for continuing education, professional growth, and recognition for their accomplishments.
- To stimulate the exchange of information within the scientific and technical community.
- To provide support and encouragement for students in learning mathematics, science, and engineering.
- To assist the general public in understanding the benefits of aerospace systems and technology.



AIAA Houston Section
P. O. Box 57524
Webster, TX 77598

Non-Profit Organization
U. S. POSTAGE PAID
Webster, Texas





GEORGE NIELD
CHAIRMAN 1994-95

American Institute of Aeronautics and Astronautics

HOUSTON SECTION P.O. BOX 57524 WEBSTER, TEXAS 77598

*Space News -
Keeping the Public
Informed.*

Thursday, March 23, 1995

REALITY BITES: INVESTIGATIVE REPORTING IN THE AGE OF POLITICAL CORRECTNESS

JOHN GETTER
Special Projects Reporter
KHOU-TV 11



PRESENTER

John Getter has been a broadcaster and journalist since 1967. His extensive experience writing, reporting and anchoring the news on radio and television began while he was still in high school. John joined KHOU-TV in 1981. For 10 years, he was the Space and Science reporter providing in-depth coverage of the first 35 flights of the Space Shuttle. He was also a consultant on the space program for CBS news. His coverage was regularly syndicated to all network stations and other outlets in more than 100 countries.

Getter produced the CBS live coverage of the loss of the Shuttle Challenger. In the months following the disaster, he was the first to break stories detailing not just the cause, but how the tragedy could have been prevented had the space agency not ignored and, sometimes, covered-up, repeated warnings and near-misses. Five years later, he produced the national commemoration of the event. It was carried by satellite to classrooms across the country with more than 1 million children.

During nearly 4 years of covering events in the nation's capital, John reported on events ranging from the Persian Gulf War to the Presidential transition to the trial of John Wayne Bobbitt. He returned to Houston in the spring of 1994 to lead investigative reporting efforts. He has already broken several major stories involving the "Operation Lightning Strike" investigation by the FBI of NASA and its contractors.

Getter has been nominated for four Emmys and awarded three.

DINNER MEETING

SOCIAL: 5:30
DINNER: 6:30
PROGRAM: 7:30

MENU: BEEF STROGANOFF

MEMBERS & SPOUSES	\$ 11.00
NONMEMBERS	\$ 12.00
STUDENTS/YOUNG MEMBERS	\$ 5.00
UNEMPLOYED MEMBERS	\$ 5.00

**ROBERT R. GILRUTH RECREATION CENTER
JOHNSON SPACE CENTER**

FRANKIE HAP
333-6064
LOCKHEED

TANYA BRYANT
483-1175
NASA

SARAH LEGGIO
282-3160
ALLIEDSIGNAL

CALL ONE OF THE ABOVE FOR RESERVATIONS.

NOTE: RESERVATION DEADLINE IS MONDAY, MARCH 20th, AT NOON.
ANY CANCELLATIONS ARE REQUIRED PRIOR TO DEADLINE. NO-SHOWS WILL BE BILLED.

ALL ARE WELCOME

DINNER RESERVATIONS ARE NOT REQUIRED FOR ATTENDING THE PROGRAM ONLY.

*Speaker changed to
John Carr, NASA Public Affairs*



American Institute of Aeronautics and Astronautics

HOUSTON SECTION P.O. BOX 57524 WEBSTER, TEXAS 77598

**The AIAA Human Support and
Life Sciences Committee presents
a Lunch and Learn meeting**

**Dr. Mike Stanford of UTMB
will present**

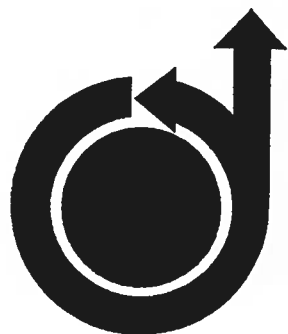
Human Support Challenges for Lunar/Mars Mission Planning

Dr. Stanford has been involved at NASA/JSC with Krug and McDonnell Douglas for the last seven years working on the Space Station Freedom Project and the Lunar/Mars project. He currently serves on the faculty of UTMB in the department of radiology. He continues to study the long-range effects of space radiation on manned spaceflight.

**Monday, 27 March, 11:30 am
Gilruth Center, Room 204**

All interested persons are invited.

Call Dr. MikeStanford, (409)772-8017 for more information.



MATLAB Workshop



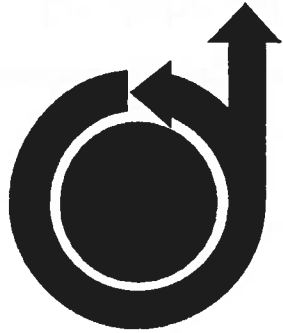
**AIAA Guidance Navigation & Control Committee
&
NASA JSC Navigation, Control & Aeronautics Division
are proud to present**

MATLAB Real Time Workshop on

**Thursday March 30, 1995 from 9:00 AM to 4:00 PM
at LPI Lecture Hall
(Bay Area Blvd. & Middle Brook Drive)
ALL ARE INVITED**

Dr. John Sunkel 483-8591

Dr. Naz Bedrossian 333-2127



MATLAB WORKSHOP AGENDA



Morning Session: Core Product Overview

9:00 AM	Welcome
9:10 AM	Mathworks Corporate Presentation
10:00 AM	MATLAB Demonstrations
10:30 AM	SIMULINK Demonstrations
11:00 AM	Real Time Workshop
11:30 AM	Questions & Answers

Afternoon Session: Advanced Control Design

1:15 PM	Mu Analysis & Synthesis
3:30 PM	Questions & Answers
4:30 PM	Adjourn

SPIRIT OF APOLLO SCHOLARSHIP

AIAA Houston Section Scholarship Program, 1995-96

The Houston Section of the AIAA is pleased to announce the *Spirit of Apollo* Scholarship for the 1995-96 school year in the amount of \$1000. The first half (\$500) will be available for the Fall Semester. The second half (\$500) will be available for the Spring Semester. Eligibility requirements must be met for both the Fall and Spring Semesters.

OBJECTIVE

The objective of the American Institute of Aeronautics and Astronautics (AIAA) is to advance the arts, sciences, and technology of aeronautics and astronautics.

The AIAA encourages original research, furthers dissemination of new knowledge, fosters the professional development of those engaged in scientific and engineering activities, improves public understanding of the profession and its contributions, fosters education in engineering and science, promotes communication among engineers and scientists and with other professional groups, and stimulates outstanding professional accomplishments.

ELIGIBILITY

The following eligibility requirements shall be met by the applicants for the AIAA Houston Section Scholarship Award:

1. Applicant must have completed at least one academic year of full-time college work at the time of receiving the scholarship.
2. Applicant must have a college grade point average of not less than 3.0 on a 4.0 scale.
3. Applicant shall be enrolled in an accredited college or school.
4. Applicant's scholastic plan shall be such as to provide entry into some field of engineering or science (i.e., physical science, mathematics, or computer science) which is pertinent to the technical activities of the AIAA.
5. Applicant shall not have, or subsequently receive, any other scholarship award which, combined with the AIAA award, would provide a stipend greater than the tuition plus direct educational expenses (such as books, lab fees, etc.) estimated by the educational institution he or she plans to attend.
6. Students who receive an award are eligible to reapply in succeeding years. It should be stressed that regardless of GPA, renewal is not automatic. To apply for renewal, an individual must follow the application procedure indicated below.
7. Applicants must be either U.S. citizens or permanent residents of the U.S.

ADMINISTRATION OF THE SCHOLARSHIP PROGRAM

The AIAA-Houston Section's Scholarship Committee will be responsible for selecting the recipients of the awards.

SELECTION OF THE SCHOLARSHIP RECIPIENTS

The decisions of the Scholarship Committee are considered to be final and the winner for the next academic year will be advised of the outcome by May 13 of the current academic year.

SELECTION CRITERIA

The recipients of the scholarship awards will be selected using the following criteria, which are listed in order of importance:

Scholarship

This criterion will be evaluated on the basis of the applicant's grade point average or equivalent. A grade point average of not less than 3.0 (B) will be required.

Personal Assessment of Career Goals

This criterion will be evaluated through a 500-1000 word typewritten essay. This essay should specify the career objectives of the applicant and should outline the academic program required to achieve those career objectives.

Recommendations

Each applicant will be judged on personal and academic merit, based on letters of recommendation.

Extracurricular Activities

Each applicant's high school, college and community activities, offices, awards, and work experience will receive due consideration.

APPLICATION PROCESS

Each applicant will provide the following information:

1. A completed application form.
2. A current college transcript.
3. Each new applicant must include no more and no less than three typewritten letters of recommendation. Individuals seeking renewal shall supply two and only two letters. Recommendations from relatives will not be accepted. The letters of recommendation may be attached to the application or sent under separate cover at the address indicated below. Recommendations must be postmarked no later than the due date of the application.
4. A 500-1000 word typewritten essay as described in selection criteria.

The Applications (including transcripts, essays, etc.) for the next academic year must be postmarked no later than May 2 of the current academic year.

Applications and related materials should be addressed to:

Chairman, Scholarship Program
AIAA-Houston Section
American Institute of Aeronautics and Astronautics
P. O. Box 52574
Webster, TX 77598

DISBURSEMENT OF THE SCHOLARSHIP FUNDS

Disbursement of the scholarship awards shall be made in the form of a check in the name of the recipient and sent to the educational institution of the selected candidate. Educational institutions attended by the recipients will be notified of the scholarship awards, so that the institutions can coordinate the financial resources of the recipients.

**American Institute of Aeronautics and Astronautics
- Houston Section -
1995-96 Application for Scholarship**

(Please print or type. If additional space is necessary, continue on a separate sheet.)

Personal Information

Name: _____ Soc. Sec. No.: _____
Perm. Addr: _____ Perm: Phone No.: (____) _____

Date of Birth: _____ School Phone No.: (____) _____
Citizenship: ☐ US Citizen ☐ Permanent Resident of the U.S. Current Class Rank: _____ out of _____

List your educational experience to date:

<u>Name of High School or College</u>	<u>Dates Attended</u>	<u>Graduation Date</u>	<u>Degree</u>	<u>GPA</u>
_____	_____	_____	_____	_____ out of _____
_____	_____	_____	_____	_____ out of _____
_____	_____	_____	_____	_____ out of _____

Indicate the school year for which the scholarship is requested:
☐ Sophomore ☐ Junior ☐ Senior ☐ Graduate

Degree sought (major): _____

Activity and Employment Information

List High School, College, and Community activities, including offices held and/or awards:

<u>Organization</u>	<u>Offices / Awards</u>	<u>Dates of Involvement</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

List work experience during the last four years:

<u>Type of Work</u>	<u>Employer / Company</u>	<u>Dates of Employment</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Signature: _____ Date: _____