

Chairman's Corner

Steve Zobal
Chairman

One of my responsibilities as Chairman-Elect this past year was to administer the Section's *AIAA Spirit of Apollo Scholarship* program. It occurred to me that many of our members may be unaware of this Section activity and would be interested in a brief program overview.


The Houston Section funds a student scholarship program that provides a one year \$1,000 scholarship for applicants enrolled in accredited colleges or universities within the Houston Section boundaries. 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 predefined eligibility requirements. Members of the Houston Section and their immediate family members are eligible for award of the scholarship provided the school attended is within the section boundaries as defined by the AIAA National HQ Office.

The scholarship was established in 1988 and is funded from interest on moneys the Section maintains in a local savings account. Income derived from the 20th Apollo Anniversary banquet in 1989 provided a substantial increase in the principal so that the 1990-91 award was increased from \$500 to the current \$1,000 amount. Because of today's low interest rates, however, it may become necessary next year to reduce the scholarship value.

We initiate the process each year with a mailout package to college and university financial aid offices in mid-February. Included in the package is a description of the application process, selection criteria and application forms. The deadline for receipt of completed applications is generally set for mid-April. A scholarship committee is appointed by the Chairman-Elect to evaluate the applicants and select

the recipient for the following fall/spring terms. The Chairman-Elect notifies the successful applicant in mid-May. The first half of the scholarship amount is mailed to the financial aid office at the start of the fall term and the second half at the start of the following spring term.

This year, ten students applied for the 1992-93 scholarship. The Scholarship Committee met in May and in a very close competition awarded the scholarship to Jennifer Lynn Duncan. Ms. Duncan is entering her sophomore year this fall at Texas A&M University and is majoring in Bioengineering.

For more information on the scholarship program, please contact me or this year's Chairman-Elect, Shirley Brandt. 

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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. Please address all correspondence to the Vice-Chairman of Operations, Audrey Schwartz, JSC/IA121, or to the Editor, Lou Livingston, 1911 Pepper Hill, Houston, TX 77058.

Behind The Board

Shirley Brandt
Chairman-Elect

An ad hoc committee has been established for the purpose of reviewing the AIAA Houston Section Bylaws and proposing modification where appropriate. The committee members are John Trebes, Michael Laible and Shirley Brandt.

Two items identified by the committee as needing modification are the Section's defining quorum and election procedures. Both of these, along with some cosmetic changes, are being reviewed. The proposed amendments are expected to be brought to the Council for adoption by December 1992.

If any member has identified bylaw items which need to be considered for amendment, please notify the Council so that these topics can be considered. ☺

Professional Development And You

Audrey Schwartz
Vice-Chairperson, Operations

As the nation's oldest and largest aeronautics and astronautics technical society, AIAA is the principal voice serving the aerospace professional. One of the primary missions of AIAA, and our Houston Section, is the professional development of our members.

Professional development means different things to different members. Our many programs, such as dinner meetings, the Annual Technical Symposium, Lunch & Learn sessions, and special events help keep our aerospace community current in an ever-changing technical environment. Serving as an officer or committee chairperson provides leadership opportunities directly related to our jobs. Reading the various AIAA publications and newsletters greatly updates our knowledge base.

But professional development can mean something else. As AIAA members, we have a responsibility to help promote technical excellence and the highest standards of the entire aerospace profession. Those of us who have found AIAA programs rewarding can

help the professional development of our colleagues through encouraging their participation in Section events.

Invite a co-worker to the next dinner meeting or to a Lunch & Learn activity. Encourage new hires in your organization to become active in Section activities. Promote aerospace education by inviting a cooperative education student to the next dinner meeting and introducing the student to other professionals. Or, reach out to the community and invite gifted high school or college students—or even a high school teacher—who are enthused about space and aviation to an interesting dinner meeting. Senior executives, demonstrate your commitment to professional development by endorsing AIAA involvement by employees and by participating in Section activities yourself.

Encouraging professional development results in better opportunities and a stronger aerospace community for us all. ☺

Committee News

Can You Say "Gig 'Em?"

Mike Begley
Student Activities/Young Members Chairman

The Texas A&M Field Trip is on! On the first Saturday of November, we will be traveling to College Station to take a tour of the new Aerospace Engineering building and related test facilities. Then we will be treated to a barbecue lunch and the A&M vs. Louisville football game by the student AIAA chapter. It's time for all you Aggies to come out and stand for the team! See the flyer included in this newsletter for more details!

The Student Paper Competition is still in need of a fund raising chairperson. If you would like to assist in this worthwhile endeavor, call Mike Begley at 333-6996 (work) or 480-7901 (home) and get involved!

The SA/YM Committee has an aggressive year planned for student activities, but not much yet to serve our young members. If you are a "Young" Member of our Section, or just wish you were, and have ideas for YM activities you would like your Section to provide, give me a call and we'll get the ball rolling! Young fireballs are welcome to co-chair the Committee! ☺

Find People The Easy Way

Don't overlook the wallet card, included as an attachment in this issue, with names, addresses, and phone and fax numbers of Houston Section officers, councillors and committee chairs. You'll want the information sooner or later, so clip it out right now and put it in your wallet where you can find it.

Award Nominations Due

Lou Livingston
Editor

AIAA National has announced a deadline of November 13, 1992, for nominations for several national awards.

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

The Ground Testing Award is presented for outstanding achievement in the development or effective utilization of technology, procedures, facilities, or modeling techniques for flight simulation, space simulation, propulsion testing, aerodynamic testing, or other ground testing associated with aeronautics and astronautics.

The Propellants and Combustion Award is given for outstanding contributions to aeronautical or astronautical combustion engineering.

The 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.

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

Questions should be directed to Merrie J. Luthran, Manager, AIAA Honors and Awards, at 202/646-7534. ☺

Who's Who

National Awards Announced

Lou Livingston
Editor

AIAA National has announced three major awards to members of the Houston Section.

The first, to Robert B. Young, CEO and President of Lockheed Engineering and Sciences Co., is the AIAA Leadership in Quality Management Award for 1992. This award is presented to the person or team of persons responsible for the quality-focused management system efforts that resulted in a significant or continuous improvement within an aerospace or defense-related organization, its products or services.

The citation reads: "In recognition of his development of a total quality culture at Lockheed Engineering and Sciences Company, and his personal and visible involvement at LESC, along with his enthusiasm for sharing his knowledge and expertise across the country." The presentation will be made during the Total Quality Symposium at the Grand Kempinski Hotel in Dallas on October 22, 1992.

Daniel Brandenstein, Chief of the Astronaut Office at JSC, will receive the 1993 AIAA Haley Space Flight Award. This award, named for Andrew A. Haley, is presented for outstanding contribution by an astronaut or flight test personnel to the advancement of the art, science or technology of astronautics.

The citation reads: "For advancing astronomical technology and space exploration and for outstanding leadership and bravery during the maiden voyage of the Endeavor Space Shuttle mission."

Dr. Victor S. Schneider of the Space and Life Sciences Directorate at JSC will be the recipient of the AIAA Jeffries Medical Research Award for 1993.

The Jeffries Award is named after the American physician who made the earliest recorded scientific observations from the air and is presented for outstanding contributions to the advancement of aerospace medical research.

The citation reads: "For his leadership in developing cooperative bone densitometry research in conjunction with the medical evaluation of cosmonauts from long-duration flights on the Russian space station Mir."

Both the Haley and the Jeffries Awards will be presented at the 31st Aerospace Sciences Meeting & Exhibit at the Reno Hilton Resort in Reno on January 12, 1993.

Previously announced but omitted from last month's *Horizons* was the 1992 AIAA Thermophysics Award to Dr. Leroy S. Fletcher, presented July 7 at the 27th Thermophysics Conference at the Opryland Hotel in Nashville, Tennessee. Dr. Fletcher is the Thomas A. Dietz Professor at Texas A&M University and is an AIAA Fellow.

On behalf of the Houston Section, our warmest congratulations to the honorees. ☺

Past Chairman Honored

Dr. Zafar Taqvi, Houston Section Chairman for 1991-92, was recognized by the JSC Toastmasters Club August 12 for conducting an eight-week Youth Leadership program for the area youngsters. Dr. Taqvi initiated and coordinated the program. ☺



From China

Jim McLane
Sister Section Coordinator, China

Last May a delegation from the Houston Section visited China as part of our celebration of the International Space Year. Several of the delegates reported their overall personal impressions for a special section of a journal that recorded the group's activities. The following contribution continues a series begun in last month's *Horizons* with the commentary by Lou Livingston.

China Impressions

Charles A. Jacobson

Space Program

I was not prepared for how simple the process is nor for how long it has been going on. I think that there is a lot to be said for that simplicity. The accommodations for the customer in the mission control center are very good. A good sales feature. I still think that we should show JSC photos of the flower gardens in front of the control center as an idea for improvement of the MCC.

Amount of Development

Having read about the amount in China I was still not prepared for the amount of construction in progress and planned for in the near future.

Lack of Farm Mechanization

At first this was puzzling to me. However, upon reflection, can you imagine what would result from a full scale mechanization of the farm communities? Six hundred million people heading for the cities where unemployment and lack of housing would be catastrophic. It surely must be well thought out government policy to continue with the centuries old farming methods. Addition of incentives for farmers has evidently created a very prosperous and satisfied group.

Adoption of Western Dress

The young people especially were very nicely dressed. This was observed in the cities only. There was no opportunity to see this in the rural areas where we only traveled through in busses and trains.

Funding for Preservation of the Antiquities

It is remarkable that, in a climate of putting every yuan possible into development, the government budgets such a substantial amount for this purpose. Not the sort of thing that I would have thought carries a top priority with a communist government.

Pride in Quality of New Hotels

Our hosts were always quick and very proud to point out that our accommodations were 4 star or 5 star as the case may be.

Relaxation of Political Repression

There seems to be some of this. The comment by our guide to Suzhou that people do not have to be afraid of being overheard in being critical of the government, if true, is dramatic change. To some degree this may have been for our consumption but I believe there is some substance to it.


New Free Markets

A lot of activity and it looks like both the entrepreneurs and the customers are having fun. An encouraging development recently is that state owned companies must compete with privately held enterprises. Failure to do so results in bankruptcy and the auction block.

People Everywhere

This is indescribable. There is no conceivable way for anyone to snatch a bit of privacy except, perhaps, in the middle of a wheat field.

Bicycles Everywhere

Segregating bicycle traffic from that of motorized vehicles seems to work quite well. I saw no collisions of bicycles with cars or trucks and only one bicycle-bicycle incident. 

Events

September Meeting a Success

Lou Livingston
Editor

Over a hundred attendees were on hand for the first dinner meeting of the 1992-93 Section year on September 24, 1992. This was a joint meeting with IEEE and ISA, as has become customary in September. The executive host was Dale Johnson, founder and president of Johnson Engineering Corp., who surprised us all by noting that he was allotted a five-minute time slot and then speaking for exactly five minutes.

Dan Brandenstein, Chief of the Astronaut Office, was the principal speaker. He described the STS-49 mission, which had three main objectives: the maiden flight of the Orbiter *Endeavour*, retrieval and reboost of the Intelsat communications satellite, and evaluation of Space Station Freedom truss assembly procedures.

The talk was notable for the straightforward presentation and detail that allow the listener to feel that he/she was there, or at least watching in real time. Unhappily, this level of detail seldom gets into the newspapers, and it was a rewarding experience for all present. ©

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 either to Audrey Schwartz, JSC/IA121, or to Lou Livingston, 1911 Pepper Hill, Houston, TX 77058.

October

13 - Tuesday

Inputs due COB for November *Horizons*.

15 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

22 - Thursday

Monthly dinner meeting.

"NASA's Blue Team/Red Team;" Charles Bolden, NASA Asst. Deputy Administrator.

Executive host: Dale Johnson, Johnson Engineering.
JSC Gilruth Center, 5:30/6:30/7:30.

November

5 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

7 - Saturday

Texas A&M Field Trip.

Aerospace facilities tour, barbecue, football game.

\$38 per person; \$18 deposit by October 16.

Reservations: Mike Begley, 333-6996.

9 - Monday

Inputs due COB for December *Horizons*.

12 - Thursday

Monthly dinner meeting.

"Quality Trends in Aerospace Industry," Bob Young, President, Technology Services Group, Lockheed Corp.

Executive host: Sandy Johnson, Barrios Technology.

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

December

3 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

10 - Thursday

Monthly dinner meeting.

Director's Reception; Aaron Cohen, Director, JSC.
JSC Gilruth Center, 5:30/6:30/7:30.

AIAA Calendar (cont.)

December (cont.)

18 - Friday

Inputs due COB for January *Horizons*.

January 1993

21 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

25 - Monday

Inputs due COB for February *Horizons*.

28 - Thursday

Monthly dinner meeting.

"F-117 Flight Test Program;" H. C. Farley, Jr., AIAA Distinguished Lecturer.

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

February

18 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

22 - Monday

Inputs due COB for March *Horizons*.

25 - Thursday

Monthly dinner meeting.

"Engines for Ingenuity;" Dr. John Lienhard, University of Houston.

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

March

18 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

24 - Wednesday

Monthly dinner meeting.

Program TBD.

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

29 - Monday

Inputs due COB for April *Horizons*.

April

22 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

26 - Monday

Inputs due COB for May *Horizons*.

29 - Thursday

Monthly dinner meeting.

Program TBD.

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

May

20 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

24 - Monday

Inputs due COB for June *Horizons*.

27 - Thursday

Monthly dinner meeting.

Program TBD.

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

June

17 - Thursday

Executive Council meeting.

MDSSC, 1300 Bay Area Blvd., Rm. A-119, 5:00-6:15.

24 - Thursday

Monthly dinner meeting.

Annual Honors and Awards banquet.

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



CLCTS Calendar

The Clear Lake Council of Technical Societies Calendar includes non-AIAA events of possible interest to Houston Section members. AIAA events are listed in the AIAA Calendar.

October

1 - Thursday

Clear Lake SigAda Executive Council meeting.
Tindy's, 18307 Egret Bay Blvd., 12:00 noon.
Information: Candy Mathiasen, 282-3086.

2 - Friday

LPI Colloquium Series.
"Impact Craters on Venus Tell All," Dr. Robert Herrick, LPI.
LPI, 3600 NASA Rd. 1, Berkner Room, 3:00 PM.
Information: Dr. Tomasz Stepinski, 486-2170.

5 - Monday

NASA Area Macintosh Users (Group) "NAMU."
Foxbase + Mac, Microsoft.
RSOC Cafeteria, 600 Gemini, 7:00 PM.
Information: 488-2262.

6 - Tuesday

LPI Colloquium Series.
"The Solar Neutrino Problem, Cross Training for Geologists,"
Dr. David Black, LPI.
LPI, 3600 NASA Rd. 1, Hess Room, noon.
Information: Dr. Tomasz Stepinski, 486-2170.

American Society for Quality Control (ASQC).
Program: TBA.
Ramada King's Inn, 1301 NASA Rd. 1, 5:00/6:00/7:00.
Information: Hank Williams, 338-2676.

7 - Wednesday

JSC Astronomy Seminar.
"Slow Motion Meteors Observed by Geodss," Dr. Karl
Henize.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

9 - Friday

LPI Colloquium Series.
"Geological Exploration of the Planets: Lessons From NW
Scotland," Dr. Graham Ryder, LPI.
LPI, 3600 NASA Rd. 1, Berkner Room, 3:00 PM.
Information: Dr. Tomasz Stepinski, 486-2170.

12 - Monday

Information Systems Security Association, Texas Gulf Coast
Chapter.
"Ada Security," Dr. Charles McKay, UH-CL.
UH-CL, 11:30 AM - 1:00 PM.
\$10.00 members, \$12.50 non-members.
Reservations: Carl Freeman, 335-6337 by COB Thursday,
October 8.

14 - Wednesday

CLCTS monthly meeting.
Lockheed Plaza 3, 1150 Gemini, 11:45 AM.
Information: Andy Lindberg, 483-1474.

JSC Astronomy Seminar.
Open discussion.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

15 - Thursday

Clear Lake Area SigAda membership meeting.
Mario's Pizza, 618 NASA Rd. 1, Webster, 11:45 AM.
\$2.00 non-members.
Information: Candy Mathiasen, 282-3086.

AMIGA User's Group meeting.
Micro Search, 2402 Bay Area Blvd., 7:00 PM.
Information: Carol Moore, 483-0259.

16 - Friday

LPI Colloquium Series.
"Compositional Classification Scheme for Chondrules," Dr.
Gary Lofgren, JSC.
LPI, 3600 NASA Rd. 1, Berkner Room, 3:00 PM.
Information: Dr. Tomasz Stepinski, 486-2170.

20 - Tuesday

Bay Area PC Organization (BAPCO) monthly meeting.
League City Bank & Trust, 303 E. Main, 7:30 PM.
Information: Steve Medcalf, 554-2300.

21 - Wednesday

Houston Space Business Roundtable monthly luncheon.
University of Houston Hilton, 4800 Calhoun, 11:30/12:00.
Information: Brian Barnett, 280-0460.

JSC Astronomy Seminar.
Open discussion.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

CLCTS Calendar (cont.) October (cont.)

22 - Thursday

Society for Computer Simulation (SCS) monthly meeting.
Lockheed Plaza 3, 1150 Gemini, 11:45-12:45.
Information: Wade Webster, 282-6589.

TSPE Bayou Chapter monthly meeting.
Ramada King's Inn, 1301 NASA Rd. 1, 7:00 PM.
Information: 471-0779.

26 - Monday — 29 - Thursday

Space Exploration '92 Third Annual Conference and
Exposition.
Sponsored by the NASA Alumni League.
South Shore Harbor Resort and Conference Center.
Banquet 8:00 PM Wednesday, October 28, in Ballroom.
Information: 1-800-765-7615.

28 - Wednesday

JSC Astronomy Seminar.
"Report on the DPS Meeting in Munich 1992," Dr. A.
Jackson.
JSC Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

29 - Thursday

IEEE/CLCTS Videoconference.
"How Will We Broadcast HDTV?"
JSC Gilruth Center, 10:00 AM-2:00 PM.
Information: Andy Lindberg, 483-1474.

30 - Friday

LPI Colloquium Series.
"Newly Formed Impact Stars: Their Impact on the ISM," Dr.
Edward Churchwell, University of Wisconsin, Madison.
LPI, 3600 NASA Rd. 1, Berkner Room, 3:00 PM.
Information: Dr. Tomasz Stepinski, 486-2170.

November

3 - Monday

Clear Lake Area SigAda Executive Council meeting.
Tindy's, 18307 Egret Bay Blvd., 12:00 noon.
Information: Candy Mathiasen, 282-3086.

4 - Wednesday — 6 - Friday

International Simulation Technology Conference (SIMTEC
'92).
South Shore Harbor and JSC.
Information: Wade Webster, 282-6589, or Bob Savelly,
483-8105.

4 - Wednesday

JSC Astronomy Seminar.
"Space Physics and Astronomy From A Lunar Post," Dr. T.
Wilson.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

18 - Wednesday

Houston Space Business Roundtable monthly luncheon.
University of Houston Hilton, 4800 Calhoun.
Information: Brian Barnett, 280-0460.

JSC Astronomy Seminar.

Open discussion.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

19 - Thursday

Clear Lake Area SigAda membership meeting.
Mario's Pizza, 618 NASA Rd. 1, Webster, 11:45 AM.
\$2 non-members.
Information: Candy Mathiasen, 282-3086.

25 - Wednesday

JSC Astronomy Seminar.
Open discussion.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

Please send information about your meeting to:
Bill Best 283-0261
RSOC/R12A-130
600 Gemini
Houston, TX 77058



OUTSTANDING SECTION AWARD



1975-1976
1976-1977
1979-1980
1980-1981
1981-1982
1983-1984
1986-1987
1988-1989

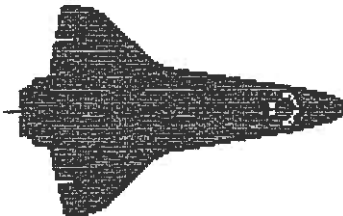


SECTION SPECIAL EVENT AWARD



1971-1972
1972-1973
1979-1980
1981-1982
1983-1984
1985-1986
1988-1989

AIAA Houston Section
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American Institute of Aeronautics and Astronautics

STEVE ZOBAL
CHAIRMAN 1992-93

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

Thursday, October 22, 1992

NASA's BLUE TEAM / RED TEAM

CHARLES F. BOLDEN, Jr.
Assistant Deputy Administrator
NASA Headquarters



PRESENTER

Colonel Bolden accepted a commission in the U.S. Marine Corps following graduation from the Naval Academy in 1968. He underwent flight training at several bases before being designated a naval aviator in May 1970. He flew more than 100 sorties in the A-6A intruder in Southeast Asia. Upon returning to the United States, Bolden had various assignments in California for 5 years. In June 1979, he graduated from the U.S. Navel Test Pilot School at Patuxent River, Maryland, and was assigned to the Naval Air Test Center's Systems Engineering and Strike Aircraft Test Directorates. Selected by NASA in May 1980, Bolden became an astronaut in August 1981. He served as pilot on STS-61C and STS-31, and was the mission commander on STS-45. On this latter flight, he commanded a crew of seven aboard the Atlantis. It was the first Spacelab mission dedicated to NASA's Mission to Planet Earth. With the completion of his third mission, Bolden has logged over 481 hours in space. He was appointed to his present position on April 28, 1992.

Executive Host
Sandy Johnson
Vice-President
Barrios Technology, Inc.

DINNER MEETING

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

Reserve for 1.

MENU: COUNTRY STEAK

MEMBERS & SPOUSES \$9.00
NONMEMBERS \$10.00
STUDENTS/YOUNG MEMBERS \$8.00

**AIAA HOUSTON SECTION MEETINGS
ARE HELD AT THE JOHNSON SPACE CENTER
ROBERT R. GILRUTH RECREATION CENTER**

Frankie Hap
333-6064
Lockheed

Ardell Broussard
283-4214
McDonnell Douglas

Kim Wunsch
483-1350
RSOC

Sarah Leggio
282-3160
Bendix

**CALL ONE OF THE ABOVE FOR RESERVATIONS.
DEADLINE IS MONDAY, OCTOBER 19, AT 12:00 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.



**Texas A&M Field Trip -
Reviving a Houston
Section Tradition!**



The Trip Includes:

- Round-trip Transportation from JSC
- Refreshments Served in Route
- A Tour of the Aerospace Facilities
 - New Aerospace Engineering Building
 - Low Speed Wind Tunnel
 - Offshore Drilling Platform Test Facility
- A Texas BarBQ hosted by the Student Chapter
- The Texas A&M vs. Louisville Football Game

**Saturday, 7 November 1992
7:30am - 7:30pm
Cost: \$38**

For Reservations, call Mike Begley at 333-6996
An \$18 Non-Refundable Deposit is Due by
October 16 to purchase block seating at the game.



**GIG 'EM
AGGIES**