

Chairman's Corner

Steve Zobal
Chairman

A year ago, I noted in the December *Horizons* Behind the Board column that our section had begun planning a field trip to Texas A&M University and a joint meeting with the student section. Mike Begley, our Student Activities/Young Members Committee Vice-Chairman, made it happen in style this past month. Mike's article on the field trip can be found elsewhere in this issue.

The AIAA is always looking for dedicated volunteers to serve on committees at all levels in the organization. Committee members gain valuable experience working with other people and have the satisfaction of providing a service to other members of their profession. At the local Houston Section level, we currently have openings for Councillor, Public Policy Officer, and Computer & Software Systems Vice-Chair.

Councillor: The sixteen-member Houston Section Council or Board is composed of the Chairman; Chairman-Elect; Secretary; Treasurer; Vice-Chairman, Operations; Vice-Chairman, Technical; and twelve elected Councillors. The Council has general supervision of the work of the Section. A vacancy on the Council, with the exception of Chairman and Chairman-Elect, is filled by appointment by the Council to serve until the next annual election. We need to fill one Councillor position for the balance of the 1992-93 term. Please contact me or anyone on the Council if you wish to be considered for this position.

Public Policy Officer: This important position falls under Audrey Schwartz's Operations umbrella. The role of the Section Public Policy Officer is to highlight the importance of aerospace concerns to government decision makers, policy leaders, the media, and the public. Public policy activities include

communicating with our legislators, inviting legislators to speak at Section meetings, forming legislative advisory groups, and communicating with the media and public. Any of you self-starting, people-oriented members should contact Audrey (283-5794) for more information.

Computer & Software Systems Vice-Chair: The Vice-Chair promotes technical interchange in the local aerospace community by conducting technical meetings, Lunch & Learns, tours, etc. Meetings are generally publicized by posting and/or mailing flyers. Dick Bennett, V-C Technical (283-1956), will be happy to discuss this position with you.



The Houston Section Council wishes each of you a happy holiday season and a prosperous new year. ☺



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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.

Memo From Operations

Audrey Schwartz
Vice-Chairman, Operations

Young people are the hope and future of the aerospace industry, and are vital to the success of AIAA as well. As the industry continues to downsize in a new world reality, making sure young people are attracted to, and stay committed to, aerospace careers is an important role for professional organizations such as AIAA.

Our Houston Section has several opportunities to promote aerospace careers and education, but we need your help. On April 1-3, 1993, our Section will host the 41st Annual Southwest Regional Student Paper Competition. Approximately 100 students from seven universities in Texas, Oklahoma, New Mexico and Louisiana are slated to participate. The Competition recognizes undergraduate and graduate students' research efforts, helps them gain technical presentation experience, and allows them to meet with professionals as equals in an informal setting. Our Student Activities Committee needs help to plan and run the Competition including persons to assist with judging, local transportation help, and fund raising. The Houston Section needs to raise more than \$7,000 to cover student expenses. In the next few weeks, Chairman Steve Zobel will send letters to local aerospace companies asking for their support.

Our Section also needs to support young members once they join the professional ranks as well. Our Student Activities/Young Member Committee needs a co-chairperson to handle young member activities such as special Lunch & Learns, talks and other activities. If you are interested in offering a few hours a month to help our next generation of space leaders, please give me a call.

Providing information about aerospace public policy issues to members of all ages is another important role of AIAA. Currently, we have a vacancy for Chairperson of our Public Policy Committee. We need someone interested in conducting one or two

programs a year about public policy issues, including developing educational initiatives with area schools.

Space *is* our future. Help our future generations learn more about aerospace and aerospace careers. If you can help with the Student Paper Competition, Young Member Committee or the Public Policy Committee, please call me at 283-5794. ☺

Committee News

A New TC is Born

Richard P. Bennett
Vice-Chairman, Technical

Several of the technical committees have been active this fall. Special note needs to be made of the Guidance, Navigation & Flight Control TC which has presented two Lunch & Learn meetings already and has a third scheduled in December. Since the first of June, six Lunch & Learns have been held, five are scheduled and another is in the planning stage. The section schedule of events includes information on the coming meetings.

Of special note is the formation of a new Technical Committee. The Fluid Dynamics TC will begin operations under Dr. Rakesh Bhargava. Dr. Bhargava operates his own business in Sugarland. He has indicated that he wants to bridge the gap between the aerospace community and other industries in the Houston area. He hopes to stage at least two Lunch & Learns in the next few months. However, since he is located in Sugarland, Dr. Bhargava would like someone from JSC or its contractors to help him by being the contact in the Clear Lake area. If fluid dynamics is your game, please give him a call at 983-9371.

While we have not yet started planning next year's Technical Symposium, it is not too early to start preparing your abstracts. A call for papers will go out early in the new year. ☺

Education and Professional Development (E/PD) Committee

Dr. J. Clayton Shadeck
E/PD Chairman

Your E/PD Committee has finally mapped out its 1992-93 activity plans. The committee members are Dr. Clay Shadeck (Chairman), V. Maleche, Dr. G. Nield, M. Putcha, Dr. Z. Taqvi, and S. Vidyasagar. We have chosen to continue with some of the activities from last year and have selected a few new items to try out this season.

We will once again be sponsoring videotape presentations from the AIAA library. See the announcement article elsewhere in this issue. If you have a topic you would like to see featured, please contact Dr. George Nield at 483-1364. We will also be repeating our successful Live Lectures again this year. We have set a goal of two lectures for the season. If you have any topics or speakers you would like for the lectures, please contact Vince Maleche at 280-2504. We will also be looking into possible continued participation in the joint AIAA/IEEE videocons.

The committee is also adding some new initiatives to its calendar. We will begin to build a video library for the local section. A catalogue of the video library available with the AIAA Western Office is being reviewed to make a list of selected videos most useful to the Houston Section. Selection is primarily based on its usefulness as a tool for continuing education. Details of the library will be published in the next *Horizons*. If there are any suggestions, please call Sagar Vidyasagar at 280-2513 or Dr. Taqvi at 333-6544.

We also have plans under way to sponsor the Educational Opportunity Seminars. These are conducted by area universities to disseminate information on educational opportunities available in the area. This is a continuation of the series conducted last season.☺

Lunch & Learn Held

Gillian Shephard
Materials, Structures & Dynamics TC

The Materials, Structures & Dynamics TC hosted a Lunch & Learn meeting on Thursday, October 15, 1992, at LESC Bldg. 1. The presenter was James T. Visentine of JSC and his subject was "A Tutorial Review of Space Shuttle Glows."

Jim began by illustrating what Space Shuttle glows are and how they have had adverse effects on earlier NASA missions. He then described the Science & Technology mission objectives for EISG (Experimental Investigations of Spacecraft Glows) and SKIRT (Shuttle Kinetic Infrared Test). This led to further discussion of the results from earlier NASA glow studies.

At this point Jim outlined the Swenson-Meyerott Molecular Recombination Model. This model attempts to explain the origins of ultraviolet glow emissions.

Jim concluded his presentation with the following statements:

- Glows, in the form of visible, ultraviolet and infrared emissions, have created problems in analyzing scientific data from earlier NASA missions.
- Glows must be understood and suppressed during future space-based missions involving NASA astronomical telescopes and Earth-observing spacecraft.
- EISG and SKIRT experiments will enable source spectral distributions and intensities of gas-phase and surface glow emissions to be identified and quantitatively measured.
- Technology data base will enable NASA and other users to develop new materials and surface treatments, or operational procedures and design guidelines, to reduce or mitigate the effects of glow on sensitive scientific instruments and electro-optical systems developed for future Space Shuttle missions and advanced NASA spacecraft.☺

From China

The following is the last in a series of personal observations from some of the members of the Houston Section delegation to China last May.

Personal Observations and Impressions

J. C. McLane, Jr.

When Shakespeare wrote "there is nothing new under the sun" he certainly did not have present-day China in mind. China is of course very, very old with the proud heritage and culture of a population dating back more than four thousand years. However, its political and economic system were essentially reborn at the end of the "cultural revolution" only about twenty-two years ago. Since then the Chinese have developed their own unique form of socialism, which embraces many of what they perceive to be the desirable aspects of capitalism. This process is by no means complete. Indeed, the changes go on at a pace that makes them visible to even the most casual repeat visitor. Change at such a pace does not advance along a uniform front. Thus incongruities abound, providing the western observer with an endless number of things to ponder. Here are a few of the things that I particularly noticed on this visit:

Cooperation with organized foreign professional activities: Support of our "Sister Section Initiative" was found to be continuing at the same high level of enthusiasm with which it began six years ago. This is curious only in that participation by rank-and-file professionals in technical society activities as we know them seems to be completely missing. A great deal of time and effort was expended by our Chinese hosts in organizing and conducting the visit. Very high ranking space program officials personally welcomed us at every stop of our technical tours, and at appropriate receptions and banquets. Without exception, they expressed approval of our cooperative activity, and hopes for its continuation. It is noted that participation by PRC engineers in foreign technical meetings has been expanded. International

conferences in China with Western nation co-sponsorship have fully resumed after having generally been suspended since the Tiananmen Square incident of 1989.

New space initiatives: At each laboratory we visited a general expansion and upgrade of facilities seemed to be under way. Even though it must be very nearly flight-ready, the new geosynchronous meteorosat, FY-2, has not yet been placed in orbit. Initiation of the long rumored manned "Space Station" program seems near. We were told of several new facilities and facility modifications to be constructed for that program. These include a very large state-of-the-art man-rated thermal vacuum chamber near Beijing and a new launch pad to be added to the complex at Xichang. As with all future Chinese space activities, very little definitive information regarding conceptual details and schedules has been released. Progress on the joint China/Brazil Earth Resources Satellite (CBERS) begun in 1988 is behind schedule. According to Brazilian sources, this is mainly because of problems with the Brazilian elements.

Other Signs of Change:

- Everyone seems to be better dressed in western-style clothes, not just the young people. The Mao jacket has all but disappeared.
- In Chengdu, large (10"-12" high display) digital countdown clocks tell the motorist and pedestrians when to expect the traffic light to change color.
- In Sichuan Province, almost all motor vehicles, including buses, trucks and taxis, suspend a 3" x 5" clear plastic card from the inside rearview mirror. The cards mount a photograph of Mao Zhedong on one side and Zhuo Enlai on the other. Inquiry failed to produce any explanation for this fad.
- All kinds of businesses from small tea shops to some large hotels have adopted the brand-new fashion of installing a blanket canopy of small electric lights over the entrance. In view of the widely proclaimed general shortage of electric-generating capacity in China, this phenomenon will likely be short-lived. (continued on page 5)

From China (cont.)

- Airline passenger terminals in Beijing and Shanghai have been greatly improved, and an upgrade is underway in Chengdu.
- Sanitation facilities provided for Westerners have been greatly improved in recent years, but facilities for the general public and those in institutions still have a long way to go to overcome their 19th century heritage.
- In spite of all the technological progress, and the opulent architecture of new hotels and public buildings, most laboratories, shops, and offices are still dingy, drab, dreary workplaces. ☉

Events

Paris Airshow 1993

J. C. Snowden

Plans for the Paris Airshow are beginning to come together and brochures are being printed. The side trip to an aerospace facility in Toulouse with a possible "Sister Section" formation is being discussed with Jean Claude Pasquet of Centre Spatial de Toulouse. Mr. Pasquet indicates that a tour of an aerospace facility is feasible with the proper preparation. Exact dates for the Toulouse side trip should be available by next month.

Don't forget to mark your calendar "Paris Airshow 1993—June 11-20" and contact Jim Snowden at 283-0400 or George Weller of Future Travel at 480-4020 for further information. ☉

Wednesday Afternoon At The Movies

George Nield

Back by popular demand! The Education and Professional Development Committee of the Houston Section is once again sponsoring a presentation of videotapes of interest to the aerospace community. The presentations will be held on site at the Johnson

Space Center, in Building 1, Room 810, starting at 4:15 PM.

Our first showing of the year will be December 16 and is titled "The Grand Tour." This Aviation Week video features an array of stunning computer graphics and mission photography of the major bodies in the solar system, as well as the people, spacecraft and technology that make their exploration possible.

If you have any questions, please call George Nield at 483-1364. ☉

October Dinner Meeting

Lou Livingston
Editor

The monthly dinner meeting on October 22 was, as usual, a rewarding experience for the attendees. Charles F. Bolden, Jr., NASA Assistant Deputy Administrator, discussed "NASA's Red Team/Blue Team." Sandy Johnson, Vice-President of Barrios Technology, was the guest host.

Mr. Bolden had two real messages for his appreciative audience. The first, in brief, was that the NASA community will have to do its job within, at best, a flat budget. This means an adjustment, possibly an uncomfortable one, in the way we all do business.

The closing message took the form of a quotation from Dr. C. Rick Chappell, MSFC Director of Science. In a recent speech, Dr. Chappell had recalled that, while walking once at KSC, he saw an armadillo rooting in the ground. Then, looking up at a Shuttle on the pad, he saw an eagle flying past. "...I was reminded that America should explore space because America is not about armadillos, America is about eagles. America is about *broad visions*, about looking up and looking out, about flying high and flying free, about creating, about doing things *because they are hard*, about reaching out to lead in new places, and about drawing out the best of our talents to accomplish our dreams. *AMERICA IS ABOUT EAGLES.*" ☉

Suggestions Solicited for Sister Section Activities

Jim McLane

Foreign travel is very educational for those who can afford it, but our AIAA Sister Section initiatives were begun with the recognition that most of our members would have to rely on some other technique if they were ever going to learn much about their professional counterparts in distant lands. Thus our reciprocal agreements with Sister Sections in China and India (and hopefully soon with Japan, Germany, and France) are intentionally loose and open-ended about specific cooperative activities. We originally chose our areas of cooperation very carefully, hoping to enhance the prospect of long-term success. We also tried to avoid any inadvertent violations of regulations or company policies governing contacts with foreign nationals.

Our five year old program of regular exchange of publications such as this newsletter, and certain Chinese journals, etc., has withstood the test of time and is continuing. We try to pass this information on to you by publishing some of it in this newsletter. We spent time pursuing several ideas that would enable direct participation of our overseas friends in our annual symposium without any actual travel taking place. Our attempt to arrange real-time TV links turned out to be well beyond our financial means. We tried exchanging video tapes of paper presentations for showing at our respective symposia. This had mixed results due to the incompatibility of video formats, and the time involved in editing and physically exchanging the tapes. Last year, we achieved better success by inviting papers from the Sister Sections for presentation here by Houston Section technical surrogates.

Now as the Section is poised to embrace even more nationalities into the Sister Section program, we would like to hear from those of you who may have some fresh ideas for appropriate cooperative activities with our Sister Sections. For example, although the subject has been broached several times, we have

no projects that involve students. Please give it some thought and let us hear from you. You can drop a note to our ISAC Chairman, Dr. Zafar Taqvi, at mail code LESC/C80, or call me, Jim McLane, at 488-0312. Best of all, you can bring your ideas to the next meeting of the International Space Activities Committee for brainstorming with a very receptive group. That meeting will be at the Gilruth Center at 11:00 AM on Tuesday, December 15. Check the entry bulletin board for room number. ☺



Texas Aggies Host Houston Visit

Michael Begley
Student Activities/Young Member Chairman

The Texas A&M AIAA Student Chapter played host to visitors and alumni from the Houston Section on Saturday, November 7. Organized by the local Student Activities Committee, 19 section members traveled to A&M where we were greeted by a host of Aggies and given a first class tour of the new aerospace facilities. Students described current research activities in flight simulation, real-time system identification and control of dynamic structures, and wind tunnel and water flow chamber testing. We were also given a demonstration of the new Offshore Technology Research Center's (OTRC) multi-direction wave model test facility. NASA used the OTRC facility this past April and June to test astronaut exit procedures from a full-scale mockup of the Assured Crew Re-entry Vehicle (ACRV) under several wave conditions.

Next, we were escorted to a barbecue lunch outside the stadium, and then we attended the A&M football game. We especially thank the students for perfect football weather and yelling the team on to a thorough thrashing of the Louisville Cardinals! We hope to make this an annual event as it was in the past, and increase the turnout to allow us to charter a bus next year. ☺

International Journals Catalogued

Larry Friesen
International Space Activities Committee

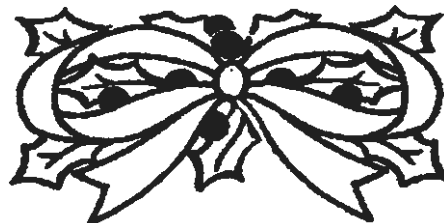
Following is a current listing of the international journals available at the JSC Technical Library. In the Nation or Organization of Origin column, "International" means the journal considers itself international and/or has simultaneous publication in more than one nation. "International - (name)" means that the journal appears to be trans-national in character, but has its home office in the country named.

Journal Title	Nation or Organization of Origin
Acta Astronautica	International Academy of Astronautics
The Aeronautical Journal (AI EDAM)	United Kingdom
Aircraft Engineering and Aerospace Technology	International
Artificial Intelligence	United Kingdom
Astronomy and Astrophysics	International - Netherlands
Canadian Aeronautics and Space Journal	Europe
Celestial Mechanics	Canada
Computer-Aided Desogn	International - Netherlands
Daily Snap (Soviet News Abstracts Publication)	International
Earth, Moon, and Planets	Foreign Aerospace Science and Technology Center
Electronics & Communication Engineering Journal	International
Engineering Fracture Mechanics	United Kingdom
Ergonomics	International
ESA Bulletin	Ergonomics Society and International Ergonomics Association
ESA Journal	European Space Agency
European Journal of Applied Physiology and Occupational Physiology	European Space Agency
Fatigue & Fracture of Engineering Materials & Structure	Europe - Germany
Flight International	European Structural Integrity Society
Fuzzy Sets and Systems	International
Geocarto International	International Fuzzy Systems Association
Heat Transfer Engineering	International
IBM Journal of Research and Development	International
IBM Systems Journal	International Business Machines Corp.
I. D.	International Business Machines Corp.
Interavia	International
International Communications in Heat and Mass Transfer	Italy
International Journal of Computer Vision	International
International Journal of Engineering Science	International
International Journal of Fatigue	International
International Journal of Fracture	International
International Journal of Heat and Mass Transfer	International

(continued on page 8)

International Journals (cont.)

The International Journal of Robotics Research	International
International Materials Reviews	International
International Ultraviolet Explorer (IUE) NASA Newsletter	NASA
Journal of Computational Physics	International
Journal of Sound and Vibration	United Kingdom
Journal of the British Interplanetary Society	United Kingdom
Machine Vision and Applications	International
Metallurgical Transactions	Metallurgical Society and ASM International
Nature	United Kingdom
Network World	International
Neural Networks	International Neural Network Society, European Neural network Society, and Japanese Neural Network Society
New Scientist	United Kingdom
Numerical Heat Transfer	International
Optical Engineering	The International Society for Optical Engineering
Optics and Spectroscopy (translation of Optika i Spektroskopiya)	Russia
Pattern Recognition	Pattern Recognition Society
Physics of the Earth and Planetary Interiors	International
The Quarterly Journal of Mechanics & Applied Mathematics	United Kingdom
The Quarterly Journal of the Royal Astronomical Society	United Kingdom
Reliability Engineering & System Safety	International
Remote Sensing of Environment	International
Robotic	International - United Kingdom
Science and Technology Perspectives	Foreign Broadcast Information Service
Signal	International
Soviet Astronomy	Russia
Space Policy	International
Space Power	International
Spaceflight	British Interplanetary Society
Spacewarn Bulletin	IUWDS (World Warning Center for Satellites), Goddard Space Flight Center
Theoretical and Applied Fracture Mechanics	International - Netherlands
Tin and its Uses	International Tin Research Institute



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.

December

1 - Tuesday

Automation & Robotics TC.

"Assured Vision for Future Space Robotics Programs,"

Dr. Kumar Krishen, Chief Technologist, JSC, and Dr.

Nerie Collin, NASA/NRC Post-Doctorate Fellow.

JSC Gilruth Center, room 204, 11:30 AM.

Information: Dr. Zafar Taqvi, 333-6544.

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.

15 - Tuesday

International Space Activities Committee meeting.

JSC Gilruth Center, 11:00 AM.

16 - Wednesday

Wednesday Afternoon at the Movies.

"The Grand Tour."

JSC Bldg. 1, Rm. 810, 4:15 PM.

Information: George Nield, 483-1364.

18 - Friday

Inputs due COB for January *Horizons*.

January 1993

5 - Tuesday

Automation & Robotics TC.

"Redundant Manipulators: Geometry of Singular Configurations," Dr. Nazareth S. Bedrossian, Draper Laboratory.

JSC Gilruth Center, room 204, 11:30 AM.

Information: Dr. Zafar Taqvi, 333-6544.

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

2 - Tuesday

Automation & Robotics TC.

"Control of an Underactuated 2-Link Manipulator," Dr. Nazareth S. Bedrossian, Draper Laboratory.

JSC Gilruth Center, room 206, 11:30 AM.

Information: Dr. Zafar Taqvi, 333-6544.

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.

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AIAA Calendar (cont.)

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. Please send information about your meetings to:

Bill Best 283-0261

RSOC/R12A-130

600 Gemini

Houston, TX 77058

December

1 - Tuesday

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.

2 - Wednesday

JSC Astronomy Seminar.

"Triton and Pluto: Rogue Bodies of the Outer Solar System," Dr. P. Schrenk.

JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

3 - Thursday

IEEE/CLCTS Videoconference.

"Getting Rid of Interference."

JSC Gilruth Center, 10:00 AM-2:00 PM.

Information: Andy Lindberg, 483-1474.

7 - Monday

NASA Area Macintosh Users (Group) "NAMU."

"A Touch of Rhythm," John Stewart and His Midi.

RSOC Cafeteria, 600 Gemini, 7:00 PM.

Information: 488-2262.

Clear Lake SigAda Executive Council meeting.

Tindy's, 18307 Egret Bay Blvd., 12:00 noon.

Information: Candy Mathiasen, 282-3086.

9 - Wednesday

JSC Astronomy Seminar.

④ "Multi-Ring Basins on the Planets," Dr. P. Spudis.

JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

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CLCTS Calendar (cont.)

16 - Wednesday

JSC Astronomy Seminar.

Open discussion.

JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

17 - Thursday

Clear Lake Area SigAda membership meeting.

Mario's Pizza, 618 NASA Rd. 1, Webster, 11:45 AM.

Non-members \$2.

Information. Candy Mathiasen, 282-3086.

22 - Tuesday

Bay Area PC Organization (BAPCO) monthly meeting.

League City Bank & Trust, 303 E. Main, 7:30 PM.

Information: Steve Medcalf, 554-2300.

23 - Wednesday

JSC Astronomy Seminar.

Open discussion.

JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

30 - Wednesday

JSC Astronomy Seminar.

Open discussion.

JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.



OUTSTANDING SECTION AWARD

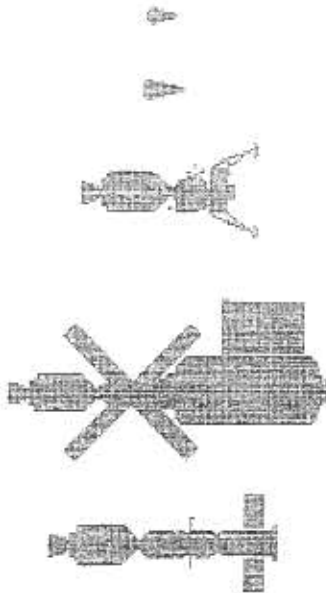


1975-1976
1976-1977
1979-1980
1980-1981
1981-1982
1983-1984
1986-1987
1988-1989

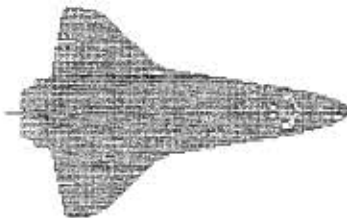
SECTION SPECIAL EVENT AWARD



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



AIAA Houston Section
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Webster, TX 77598



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Dr. Larry J. Eriksen
League City TX 77573-9220



American Institute of Aeronautics and Astronautics

STEVE ZOBAL
CHAIRMAN 1992-93

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

ANNUAL DIRECTOR'S RECEPTION *STATE OF JSC*

Thursday, December 10, 1992

AARON COHEN

Director, Lyndon B. Johnson Space Center

Executive Host

**Dr. Clayton Shadeck
GE Government Services**

Dinner Meeting

**Social: 5:30
Dinner: 6:30
Program: 7:30**

MENU: TEXAS BAR-B-QUE

Members	\$8.00
Non-Members	\$9.00
Students/Young Members	\$7.00

**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, DECEMBER 7, AT 12:00 NOON.
ANY CANCELLATIONS ARE REQUIRED PRIOR TO DEADLINE. NO-SHOWS WILL BE BILLED.**

ALL ARE WELCOME.

**AIAA HOUSTON SECTION MEETINGS ARE HELD AT THE JOHNSON SPACE CENTER
ROBERT R. GILRUTH RECREATION CENTER
DINNER RESERVATIONS ARE NOT REQUIRED FOR ATTENDING THE PROGRAM ONLY.**

AIAA JOB POSTING

Position: Region IV Deputy Director, Career Enhancement

Hiring Manager: André Sylvester, Region IV Director, telephone 713/483-1537

Salary: None

Responsibilities: The Deputy Director for Career Enhancement is the liaison between the National Career Enhancement Committee and the regions and sections. The Deputy encourages the sections to sponsor career enhancement/development programs that contribute to the careers of their membership.

General Duties:

- Advise and assist Sections within the Region with Career Enhancement activities/ programs.
- Contact the career enhancement officer for each section at least once every two months. If there is no officer, maintain a meaningful and continuing liaison with appropriate individual(s) in the sections.
- Collect and disseminate information on current career enhancement activities which may be useful to local sections in formulating or improving their local career enhancement programming.
- Develop an "ideas that work" list for career enhancement activities and distribute to the sections.
- Encourage educational short courses within the region.
- Assist in the arrangement of retirement seminars, as requested.
- Maintain a current awareness of National's Career Enhancement activities, programs, and future plans with a view to assuring that your region is acting in concert with national goals and objectives.
- Encourage sections to set goals/objectives for career enhancement programs and to communicate said goals/objectives to the Deputy Director.
- Contribute articles to the Career Enhancement page of the *Lifeline* newsletter.
- Convey the results of the National Career Enhancement Committee meeting to the region and sections. Communicate section activities to the Committee.
- Participate in the Section Leadership Briefing.
- Assist the staff liaison with the preparation/annual update of the Career Enhancement Chairperson's Manual.

Meetings:

- The Deputy Director, Career Enhancement is expected to attend meetings of the Regional Advisory Committee (RAC) and to present a report at each meeting. The report should at least include actions you have taken and what took place at the National Committee meeting.
- Attend at least two meetings of the National Career Enhancement Committee. At these meetings, you would report on section activity, actions you have taken and pertinent information from your RAC.