Chairman’s Corner

George Nield
Chairman

I am pleased to report that your new section officers and council members have gotten off to an outstanding start in planning an exciting year of activities for the section. In June, Mike Begley (our new Vice Chairman-Operations) and I attended the AIAA Section Leadership Briefings in Fort Worth. We spent the day meeting with officers from other sections around the Region and staff members from AIAA Headquarters, and picked up some helpful tips.

Back in Houston, our first order of business was to find a set of capable and motivated committee chairmen and members to plan and conduct all of the many activities that we hope to provide for the membership during the year. A list of the leaders that have been identified so far is included on the wallet card elsewhere in this newsletter. We have a very talented team in place, but there are still several areas where additional volunteers could make a real difference. If you would be willing to devote a modest amount of time and energy in order to give something back to our profession, please let me know. We’d love to have you as part of our team!

We plan to have monthly Council meetings throughout the year. They will normally be held from 5:00-6:15 PM on the Thursday prior to the monthly dinner meeting, but check the AIAA Calendar for the latest schedule. We have been meeting in the Hess Room of the Center for Advanced Space Studies (CASS), 3600 Bay Area Blvd., which is at the corner of Bay Area and Middlebrook Drive. It’s really a beautiful facility! If you haven’t had a chance to see it, you ought to make it a point to see how the section operates, and we’d benefit from having your participation!

During the summer, the Council met in June, July and August, with a special planning meeting in June. We talked about what the section ought to be doing and where we ought to be putting our energy. Here are some of my ideas on some proposed areas of emphasis for the coming year:

- Membership Growth. As a result of the economic troubles in the aerospace community, our section membership has declined dramatically in the last few years. As of May 2, 1994, we were down to 982 members, the lowest we have been in some time. Even though the industry is still experiencing some tough times, there are still many, many aerospace professionals in this area who are not AIAA members. I’m convinced that if we have the right kind of programs and make the right kind of outreach to them, we can continue to expand our membership base.

- Section Newsletter. Lou Livingston has been doing a super job as Newsletter Editor, but one person can’t do it all! I’d like to see us upgrade this publication with more photos, regular columns, and special features. Are there any potential authors or cartoonists out there?

- Educational Opportunities. We hope to offer several educational activities this year, such as a lecture series or short course.

- Special Events. There ought to be more to AIAA than a magazine and an occasional dinner meeting and we hope to prove it to you! We plan to sponsor several special events this year, such as field trips and facility tours. (see Chairman, page 2)

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, Operations, Mike Begley, LESC/C87, or to the Editor, Lou Livingston, 1911 Pepper Hill, Houston, TX.
CHAIRMAN (from page 1)

- Community Outreach. There's a big wide world out there and we haven't been reaching it! We need to do more in terms of publicity and partnerships with schools and other organizations.

Do any of these areas hit home with you? I hope so. In any case, we need your feedback! We sent out a Membership Survey earlier this summer, and although we did get some excellent comments, only a small fraction of our total membership responded. I'd really like to know what you think. Give me a call at (713) 483-1364, or if you have access to e-mail, send me a note. My Internet ID is GNIELD@JSCPROFS.NASA.GOV

I'm looking forward to hearing from you!

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Member Surveys Help Chart Our Course

Michael Begley
Vice Chairman, Operations

A SLOW BUT STEADY RESPONSE from the July membership survey continues to provide fresh ideas and fresh faces for our Section. The comprehensive survey is being used to identify the activities local members want the Section to pursue in the coming year. Ideas include:

- Many new dinner program topics
- Suggestions for facility and industry tours
- Newsletter enhancements
- Establishment of a local AIAA computer bulletin board

All of these ideas are being actively pursued by the board members.

Many members expressed an interest in several of our 15 technical committees. This information will be used to improve the timeliness and distribution of our technical committee program announcements. Member interest may lead to the establishment of a new local Space Transportation technical committee.

Many members have volunteered to support the Section's diverse student activities, including a Texas A&M field trip, initiation of a Pasadena School District Science Fair, judging of the Houston Science Fairs, coordinating speakers for Engineer's Week, tutoring, and selecting our annual scholarship recipient. However, the Section still needs two or three chairpersons to serve as coordinators for our many volunteers. If this interests you, please call Michael Begley at 333-6996.

If you did not receive your survey, or would like another copy, call Michael Begley at the above number. Your input and involvement are necessary for the Houston Section to provide the programs and services that you want.
Committee News

Education & Career Enhancement Committee Plans Busy Year

Dr. Jayant Ramakrishnan
Education/Career Enhancement Chairman

The goals of the Education and Career Enhancement Committee are:
1. To promote the education of AIAA members via AIAA short courses and study material.
2. To provide relevant lectures to the members on career enhancement.

The following AIAA members have kindly consented to serve on the committee. The last three will serve as points of contact for checking out material.

John Sunkel, JSC
Nazareth Bedrossian, Draper Labs
Bill Best, Rockwell — 282-6970
Jeff Tave, Lockheed — 333-7007
Steve Zobal, McDonnell Douglas — 283-1023

The Houston Section has a collection of video cassettes, lecture notes with audio cassettes and course materials that have been catalogued and are available for checkout. The procedure for checkout will be as follows:
1. Identify the item that you wish to check out and contact one of the representatives listed above.
2. The representative will check out the requested item from the AIAA Library and provide it to you. Rentals are $1 per week per item.
3. After use, return the item to the representative and fill out an evaluation/feedback form on the item.

We are also in the process of contacting AIAA National to obtain material from their library. We will keep you posted on any new material through Horizons.

We have scheduled an interesting and informative seminar on financial management for Thursday, October 20, 1994 at 6:45 PM. It will be held at the Center for Advanced Space Studies Lecture Hall, 3600 Bay Area Blvd. More details will be provided in the next issue of Horizons. Charles Schwab and Co. will conduct the seminar. Topics to be discussed will include retirement planning and computerized investing. Any suggestions for future programs can be sent to me via e-mail at JAYANT@DYNACS.JSC.NASA.GOV

We encourage you to participate and derive full benefit from the activities of this committee.

Audio Tapes

1-Hour Tapes
1. Decision Theory
2. Dynamic Programming
3. Fundamentals of Precise Attitude Determination of Satellites
4. Linear Systems Analysis: Classical Versus Modern Techniques
5. Problems in Orbit Transfer
6. Vectors
7. Investment Programs
8. Boundary Layers
9. Low Speed Wing Theory

2-Hour Tapes
1. Flight Computer Design
2. Linear Quadratic Design Techniques
3. Manual Control
4. An Introduction to Navigation Systems
5. Nuclear Propulsion
6. Probability, Random Processes and Estimation Theory, with Aerospace Applications
7. Introduction to Stability Theory

12-Hour Tapes
1. Aeroelasticity

Management Tapes
1. Effective Team Building
2. Assertiveness Training for Managers
3. How to be an Effective Middle Manager
4. Effective Team Building
5. Creative Problem Solving
6. How to be a No-Limit Person

Video Tapes
1. Thunder in the Gulf
2. The Secret Vigil—SR-71 Blackbird
3. Blueprint for Space
4. Tour of the Planets (Aviation Week-Flight Kit)
Membership Activities

J. Clayton Shadec
Membership Chairman

After many years of faithful service, Jim Visentine has decided to take a break. Although I will need lots of help from him, especially at the start, Jim will soon be able to enjoy a well deserved "retirement" from his duties as Chairman of the Membership Committee. Please join me in thanking him for his long, effective tenure.

In membership this year, there are three primary goals and one secondary goal (if time and resources permit). The three main goals are:

1. Run a successful membership drive. This is defined as a drive which puts us solidly over 1,000 members in the Houston Section. We have fallen below this, and therefore into a completely different section category, for the first time in many years.

2. Work with National AIAA to ensure an accurate Section roster, particularly with respect to a member’s affiliation. With a good list, we can approach key contacts in each organization to enlist them to mobilize members in that organization to support the membership drive, conferences, dinner meetings, technical committees, etc.

3. A special initiative to encourage AIAA membership of employees of the many smaller companies in the area.

The secondary objective is to provide a detailed addendum to the roster which provides technical interests for each member (beyond that provided with the membership application/renewal). This will help us to find support for our technical activities.

At the moment, I am a chairman without a committee. If anyone would like to help, please contact me at 280-2701. I promise to keep the workload light.

Public Policy Committee

Shirley Brandt
Chairman, Public Policy Committee

The Public Policy Committee is in the process of planning the agenda for the 1994-95 year. In addition to the traditional tasks of educating the public about the space program and organizing letter-writing campaigns, as needed, to the Congress, the committee is looking for new ideas.

The committee is looking for suggestions for programs which interest our Section membership. If you would like to submit ideas to be worked by the Public Policy Committee, or if you would like to participate on the committee, please contact Shirley Brandt at 486-3941. We hope to hear from you.

Guidance & Control TC

Dr. Jayant Ramakrishnan
Education/Career Enhancement Chairman

The following AIAA members have kindly consented to serve on this committee:
David Zimmerman, UH — 743-4520
David Frost, Rockwell — 282-6813
Larry Friesen — 334-5268

The committee will be meeting in the next few weeks to schedule interesting Lunch & Learn seminars and short courses. AIAA members who are interested in presenting or attending these seminars may contact one of the committee members.
Shadeck Named Top Manager

George Nield
Chairman

Dr. J. Clayton Shadeck, currently serving as Houston Section Membership Chairman, has been named Manager of the Year by the Martin Marietta Corporation. Dr. Shadeck, who is the Director of Houston Operations, Martin Marietta Services Group, was one of a select group of 61 of the corporation's 96,000 employees who were awarded a Jefferson Cup. This award is given to employees who have performed particularly significant and creative work on behalf of the corporation's customers. He was then selected out of that group as the corporation's top manager. Dr. Shadeck manages the company's science and engineering support contract for the Johnson Space Center's Life Sciences Directorate. He is credited with helping the company win the nine-year, $480 million contract, which is the largest contract in the history of the Services Group.

Congratulations, Clay!

Dudley Nelson—In Memoriam

Shirley Brandt

To our shock and sorrow, the Houston Section has lost an extremely dedicated member. Dr. Dudley Nelson, a long-standing member of AIAA, our colleague, and good friend, passed away suddenly on July 20. Dudley served as Vice Chairman, Technical during this past year. He organized a very successful Technical Symposium this spring, with 90 papers presented in 15 sessions to 250 attendees.

Dr. Nelson had been employed since 1987 by Lockheed Engineering and Sciences Company as Manager of the Structural Analysis and Test Department. Prior to joining Lockheed, he had worked for McDonnell Douglas Astronautics Company in the position of Manager of the Structures and Thermal Branch. Dudley was very dedicated to his work.

Despite the amount of time and energy that he consumed on his job, Dudley always seemed to find additional energy and time to volunteer his services to the local AIAA section. He was committed to quality in whatever he undertook, and he was always willing to help. We could always rely on Dudley.

Dudley has left a big void. He will be deeply missed by all those who knew him.

At the presentation of the Manager of the Year Award are, left to right, Norm Augustine, Chairman and Chief Executive Officer of Martin Marietta; Eileen Shadeck; Clay Shadeck; and Tom Young, Martin Marietta President and Chief Operating Officer.
AIAA Spirit of Apollo Scholarship
Dr. George Nield
Chairman

The Houston Section funds a student scholarship program that provides one-year $1,000 scholarships for applicants enrolled in accredited colleges or universities. Applicants must have a scholastic plan that provides entry into some field of engineering or science pertinent to AIAA technical activities and must meet other pre-defined eligibility requirements.

This year, 14 scholarship applications were received. After reviewing the applications, the scholarship committee decided that three of the students were unusually well qualified and very much deserving of our support. As a result, the committee recommended to the Council, and the Council agreed, that this year the Section would award three $1,000 scholarships. The scholarship winners were David Oehl, Alfonso Lopez and Kimberly Renzi.

David Oehl, from Fort Worth, Texas, holds a B.S. in mechanical engineering from Baylor University, where he was on the varsity tennis team. He is currently pursuing an M.S. in aerospace engineering at Texas A&M and has a grade point average of 4.0. He has received numerous academic honors and has been involved in several community service activities. His career goals include working in research and development, completing a doctoral degree in aerospace engineering, and entering the teaching profession.

Alfonso Lopez was born and raised in Mexico. He came to the United States six years ago not being able to speak a word of English, and after mastering the language, received a number of academic honors. He is currently enrolled at Texas A&M University and is majoring in electrical engineering. He has a grade point average of 3.46. He hopes to become an electrical engineer and look for new things that will help society.

Kimberly Renzi, from Spring, Texas, just completed her sophomore year at Texas A&M, where she has a grade point average of 3.85 and is pursuing a degree in mechanical engineering. She is involved in the Engineering Scholars Program, the Society of Women Engineers and the American Society of Mechanical Engineers. She plans to pursue a career in aeronautics and hopes to find a way to combine her engineering education with her love for helping other people.

To this year’s scholarship winners, we say “Congratulations!” To those who were not selected, we wish you the best as you continue your education and begin your careers.

Also Noted

New Space Transport Policy
Kenneth J. Cox

A National Space Transportation Policy dated August 5, 1994, has been released by the White House. The following paragraph is of particular interest:

“It is envisioned that the private sector could have a significant role in managing the development and operation of a new reusable space transportation system. In anticipation of this role, NASA shall actively involve the private sector in planning and evaluating its launch technology activities.”

A National Space Transportation Round Table has been scheduled for September 14 in Washington, D.C. to derive a pragmatic approach to substantial commercial involvement in the development, ownership, and operation of reusable launch systems.
Realizing the importance of Science Fair contests at the high school level and the fact that currently the local Pasadena Independent School District (PISD) high school students have no opportunity to participate in and learn the scientific/engineering challenges presented by the Science Fair, the Houston Section, in cooperation with the IEEE Galveston Bay Section and the Clear Lake Council of Technical Societies, has proposed to sponsor and help organize Science Fair contests for the high school students at both the school and district levels. This will enable the PISD winners to participate in the city-wide contest and thus become eligible for hundreds of awards and scholarships provided by various agencies and universities. To both the winners and non-winners it will open new doors of opportunity to learn. The proposal has been accepted by the PISD and we are in the process of finalizing the project schedule and supporting personnel. This is going to be a unique and rewarding prospect for our organization.

Why Participate in the Science Fair?

- Learn methodology of research and experiment
  - Magazine search
  - Journal writing
  - Experimental methodology
  - Validation procedures
  - Data taking and evaluation processes
- Learn technical presentation techniques
- Learn technical writing and graphics
- Recognition at school, district and city level
- Trophies and cash awards from Science Fair as well as dozens of private agencies
- Exposure to new subjects and exciting ideas
- Motivation to continue with advanced studies
- Receive credit for the work
- Constructive involvement of parents with their children
- Sense of accomplishment to all participants

Our Involvement in the Science & Engineering Fair of Houston

As an organization, we will be supporting Ninth Grade and Senior Division (grades 10-12) participants in the Science Fair at the school and district levels. There are four high schools in the PISD. This being a first effort, we will provide both mentors and judges for the events. We seek dedicated mentors from our organization in twelve areas (see below). These mentors will be available by phone to advise the student participants on technical aspects of their projects. School level competition will take place in January 1995, with district level judging in late January or early February. We will need judges at the four schools in all twelve areas as well as at the district competition. We expect that each mentor will spend two to four hours for the entire project and each judging will take from one to two hours. Our participation will be very rewarding both from interaction with the young intellectuals and from helping them to establish their future technical interests. With our support, many of these youngsters may receive Science Fair scholarships or fellowships that could improve their lives.

Project Categories:

**Engineering and Physical Sciences**
- Chemistry
- Computers
- Earth/Space Sciences
- Engineering
- Mathematics
- Physics

**Life Sciences**
- Behavior/Social Sciences
- Biochemistry
- Botany
- Environmental Science
- Medicine/Health
- Zoology

(see PISD, page 8)
Tentative Schedule:

Mid-August: Approval to hold Science Fair for PISD high schools
August: Inform PISD high schools
Teachers advise students about the opportunity to participate in the Science Fair
September: Instruction package distributed to schools and students
Brief students and parents at each school about topics, effort, mentors, etc.
Mentors requested by students and assigned; individual project effort starts
Mid-October: Briefing, monitoring at each school, if needed
Mid-November: Briefing, monitoring at each school, if needed
December: Details of projects and participants to Houston
January: Judging at each school; participation certificates to all entrants, ribbons to first two in each category
February: Judging at district level; ribbons to first two in each category
March: City-wide judging

Registration Form for Mentors and Judges

Name __________________________________________

Employer ________________________________________

Address _________________________________________

Telephone ___________ Fax ___________ E-mail __________________________

Subjects for MENTORING (note preferences 1, 2, 3, etc.)

___ Chemistry ___ Behavior/Social Sciences
___ Computers ___ Biochemistry/Microbiology
___ Earth/Space Sciences ___ Botany
___ Engineering ___ Environmental Science
___ Mathematics ___ Medicine/Health
___ Physics ___ Zoology

Subjects for JUDGING (note preferences 1, 2, 3, etc.)

___ Chemistry ___ Behavior/Social Sciences
___ Computers ___ Biochemistry/Microbiology
___ Earth/Space Sciences ___ Botany
___ Engineering ___ Environmental Science
___ Mathematics ___ Medicine/Health
___ Physics ___ Zoology
From Our Sister Section in China

Jim McLane
Sister Section Coordinator, China

The International Space Activities Committee wishes to determine the depth of interest in organizing a third Houston Section Technical Delegation to visit China similar to those of 1988 and 1992. As before, our host would be the Chinese Astronautical Society.

The 14/15 day itinerary near the end of April 1995 would most certainly include Beijing and Shanghai, the location of our Sister Section, the Shanghai Astronautical Society. Other centers of aerospace activity to be visited might include Xi'an and the northwest rocket launch site near Lanzhou. In addition to visits to aerospace laboratories, institutes and facilities tailored to the technical interests of the participants, visits to the principal tourist attractions would be included. A separate program for accompanying non-technical spouses would be included.

Hotel accommodations would generally be 4-star, and the estimated price of $3,300-3,700 per person, double occupancy, would be virtually all inclusive from Houston. A minimum of 16 participants will be required to make the project feasible—the number will be limited to 25 maximum.

Delegates will meet and talk with many key figures in the Chinese space program. Additionally, arrangements would be made for those delegates who wish to do so to make short technical presentations in appropriate Chinese settings. This is a superb way for aerospace professionals at every level to see and learn about the real China, through interaction with Chinese counterparts.

To express your interest and be put on the list to be notified of future developments, please get in touch with
Jim McLane, Sister Section Coordinator, China Telephone: (713) 488-0312 Internet: FWGD81A@PRODIGY.COM

Cranium Cruncher

Lou Livingston
Editor

By popular demand, the Cranium Cruncher is returning to Horizons. As before, names of those correctly solving the Cruncher go into a hat; a random drawing picks the winner of a free dinner at an upcoming Houston Section meeting. Here’s an easy one to start.

A layer cake is 8” square with three 1” layers. There is a thin layer of icing on top, on all four sides, and between the layers. How can the cake be cut into seven portions so that each portion has the same amount of cake and of icing?

Send your solution to Mike Begley at LESC/C87 before September 30, 1994. Because of irregularities in the Horizons schedule, the answer and the winner will appear in the November issue.

To make things a little more interesting, and to save your hard-working Horizons staff the trouble of digging up a lot of puzzles, send in your own favorites (with solutions, please; I’m not always as clever as I hope everyone thinks I am) and try to stump your fellow members. You will, of course, get full credit for your submissions when used.

Events

Dinner Program Plans

Mac Parks
Program Chairman

We have three stimulating programs already scheduled for the Section year, with more to come as we proceed with arrangements. You will find with this newsletter the announcement for our September meeting, featuring some exciting insights into the Hubble Space Telescope servicing mission and subsequent observations with the telescope. For airplane lovers, in October we will feature the curator of the Lone Star Flight Museum to talk about his specialty. For November, we’ve scheduled a program on low-cost space transportation and the DC-X. In the (see Dinner, page 10)
DINNER (from page 9)
hopper, we're working on topics like media coverage
of the space program, global navigation, and aero-
space education.

We're open for suggestions for program ideas, so
if you have one, give Mac Parks a call at 483-9259,
or send an e-mail message to
PARKS_MAC@LOCKJSC.NASA.GOV
Volunteers are always needed to help arrange and
coordinate programs.

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 dead-
lines. 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, LESC/C87, or to Lou Liv-
ingston, 1911 Pepper Hill, Houston, TX 77058.

September

8 - Thursday
Horizons inputs for October due COB.

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

29 - Thursday
Monthly dinner meeting.
"Results from the Hubble Space Telescope," Tom
Akers and Dr. David Leckrone.
Gilruth Center, 5:30/6:30/7:30.

October

5 - Wednesday
IEEE videoconference.
Gilruth Center.

11 - Tuesday
Horizons inputs for November due COB.

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

18 - Tuesday
Monthly dinner meeting.
"Lone Star Space Museum."
Gilruth Center, 5:30/6:30/7:30.

19 - Wednesday
IEEE videoconference.
"Maximizing Productivity: Information Integration
for User Productivity."

20 - Thursday
Education/Career Enhancement Comm. seminar.
Center for Advanced Space Studies Lecture Hall,
3600 Bay Area Blvd., 6:45 PM.

November

7 - Monday
Horizons inputs for December due COB.

9 - Wednesday
IEEE videoconference.
"Mechatronics."

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

15 - Tuesday
Monthly dinner meeting.
Gilruth Center, 5:30/6:30/7:30.

30-Dec.2 - Wednesday-Friday
JSC/IEEE/AIAA workshop.
"Virtual Reality."
Gilruth Center.

December

1 - Thursday
Executive Council meeting.
5:00 PM, Center for Advanced Space Studies.
December (cont.)

8 - Thursday
Monthly dinner meeting.
Director's Reception.
Gilruth Center, 5:30/6:30/7:30.

19 - Monday
Horizons inputs for January due COB.

January

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

February

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

21 - Tuesday
Horizons inputs for March due COB.

March

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

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

April

3-6 - Monday-Thursday
Life Sciences & Space Medicine Symposium.

May

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

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.

27 - Monday
Horizons inputs for April due COB.

TBD
Student Paper Competition.

TBD
Space Logistics Symposium.

TBD
Annual Technical Symposium.
Joint Dinner Meeting
sponsored by the

American Astronautical Society,
IEEE-Galveston Bay Section,
The American Institute of Aeronautics and Astronautics,
ISA-Clear Lake Section

present

EXPLORING THE UNIVERSE
WITH THE
HUBBLE SPACE TELESCOPE

featuring

LT. COL. TOM AKERS
ASTRONAUT AND STS-61 EVA CREWMAN

Speaking about the brilliantly-executed First Servicing Mission

and

DR. DAVID LECKRONE
SENIOR SCIENTIST FOR THE HUBBLE SPACE TELESCOPE

presenting some of the amazing recent astronomical
observations made with the restored capability of the HST

THURSDAY, SEPTEMBER 29, 1994
at the JSC GILRUTH RECREATION CENTER

For Reservations:
Barbara Nepveaux 483-0194 IEEE, ISA
Kent Frohme 333-6012 AAS
Emyre Robinson 280-9119 AAS
Ardell Broussard 283-1040 AIAA
Mary Ann Bivona 483-1350 AIAA
Sarah Leggio 282-3160 AIAA
Fran Jamison 333-6277 AIAA

5:30 Cash Bar
6:15 Filet Mignon Dinner
7:00 Program

Dinner - $12.00
AIAA Students and Non-employed AIAA members - $6.00
Reservations necessary by COB Friday, Sept. 23
(Cancellations required by the same time or dinner will be billed)
UNIVERSITY of HOUSTON

Cullen College of Engineering
Office of the Dean

GRADUATE DEGREE PROGRAMS IN
INDUSTRIAL ENGINEERING AND AEROSPACE ENGINEERING

COURSES OFFERED AT UH-CLEAR LAKE
FALL 1994
Classes begin Thursday, August 25, 1994

Required Courses in Industrial Engineering

INDE 6332/06547 Engineering Project Management
4:00-7:00 PM Monday
Instr. J. Hunsucker
Room 2407 Bayou Bldg.

INDE 6365/06548 Engineering Economy II
4:00-7:00 PM Wednesday
Instr. J. Hunsucker
Room 2407 Bayou Bldg.

Courses in Aerospace Engineering

MECE 7397/06553 Composite Materials
4:00-7:00 PM Tuesday
Instr. S. S. Wang
Room 1324 Bayou Bldg.

MECE 7397/06554 High Speed Aerodynamics
4:00-7:00 PM Thursday
Instr. C. Li
Room 1324 Bayou Bldg.

ADDITIONAL GRADUATE COURSES OFFERED VIA INSTRUCTIONAL TELEVISION
RECEIVED AT BUILDING 45 AT NASA/JSC

CIVE 6361/06637 Ground Water Hydrology
5:30-7:00 PM Monday/Wednesday
Instr. T. Cleveland

ELEE 6397/06551 Computer Design & Architecture
12:00-1:30 Monday/Wednesday
Instr. J.-A. Lee

ELEE 7373/06552 Adv. Topics in Computer Architecture
11:30-1:00 Tuesday/Thursday
Instr. P. Markenscoff

ENGI 6362/06555 Methods of Applied Mathematics
4:00-5:30 PM Monday/Wednesday
Instr. L. Wheeler

INDE 6368/06568 Advanced Statistics Seminar
4:00-5:30 PM Tuesday/Thursday
Instr. D. Deal

INDE 6380/06550 Topics in Industrial Automation
5:30-7:00 PM Tuesday/Thursday
(Room assignments to be posted in Building 45/Room 146 at NASA/JSC)

ADVISING:
Thursday, August 4, 1994
10:30 AM to 2:00 PM
NASA/JSC Lobby - Building 45

Applications for admission for FALL 1994 will be accepted at this time.
Call Cullen College of Engineering at 743-4200 or NASA/JSC Training Office at 483-3075
for registration and admission information.

7/25/94
# Houston Section

## Officers 1994-1995

**Rev. 8/20/94**

### COUNCILLORS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>E-Mail</th>
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<tr>
<td>Dick Bennett</td>
<td>Friendswood ISD</td>
<td>482-2950</td>
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<td>Shilley Brandt</td>
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<td>Dave Criswell</td>
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<td>Carl Hiss</td>
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<td>Paul Judas</td>
<td>GB Tech</td>
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<td>Lou Livingston</td>
<td>1911 Pepper Hill Way, Houston</td>
<td>486-2085</td>
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<td>Joe Loftus</td>
<td>JSC/SA</td>
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<td>483-8636</td>
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<td>Jim Oberg</td>
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<td>337-2638</td>
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<td>483-4241</td>
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<tr>
<td>Marv White</td>
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<tr>
<td>Steve Zobal</td>
<td>MDC-1/211</td>
<td>233-1023</td>
<td><a href="mailto:zobal@psl.mdc.com">zobal@psl.mdc.com</a></td>
</tr>
</tbody>
</table>

### SPECIAL COMMITTEES:

- **International Space Activities:**
  - Chair: Jim McLane
  - 1702 Fairwind, Houston 77062
  - 488-0312
  - FWDG81@prodigy.com

- **Scholarship**
  - Leon Swartz
  - IBM/4206
  - 282-8136

### OFFICERS:

- **Chairman**
  - George Hieald
  - 483-1384
  - 483-8998
  - gnield@jsclprofs.nasa.gov

- **Chairman-Elect**
  - Don Proehl
  - 333-6278
  - EESC/B14
  - 333-8038

- **Vice-Chairman, Operations**
  - Michael Begley
  - 333-6996
  - EESC/C87
  - 333-8037

- **Vice-Chairman, Technical**
  - Ramani Lulla
  - JSC/SDN4
  - 483-5159
  - 483-2911

- **Secretary**
  - Merri Sanchez
  - JSC
  - 244-8993
  - 244-0095

- **Treasurer**
  - Franklin Chang-Diaz
  - JSC/CB
  - 244-8923

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**Wallet Reference Card 1994-95**

The attached wallet card contains names, addresses, and phone and fax numbers for Houston Section officers, councils and committee chairmen. Please save for future reference.

### Assembly Instructions:

1. Cut along line. (Neatness counts.)

2. Fold in half with the AIAA logo on the inside.

3. Fold in quarters, putting the logo and officers (Chairman, etc.) on the outside.

OPERATIONS COMMITTEES:

Name                      Address                        Phone                         Fax                          E-Mail
Career Enhancement/Professional Development
Jayant Ramakrishnan Dynacs 333-4419
Communications & Publicity
Mike Begley (acting)        LESC/C87                        333-6886
Honors & Awards
Carl Huss                   16522 Clearcrest, Houston 77059 488-8310
Membership
Clay Shadeck               Martin Marietta
Programs & Events
Mac Parks                   LESC/C71                        483-9259
Public Policy
Shirley Brandt             486-3941
Newsletter
Editor: Lou Livingston     1911 Pepper Hill Way, Houston 77058 480-2068
Printing: Jeff Tave         LESC/C87                        333-7007
Mailing: Bill Best          RSOC/R12A
Flyers: Bill Geissler      LESC/C87                        333-6908
Student Activities/Pre-College
(vacant)
Student Paper Competition
(vacant)
Young Members
(vacant)

TECHNICAL COMMITTEES:

Automation & Robotics
(vacant)
Communications & Tracking
(vacant)
Computer & Software Systems
(vacant)
Fluid Dynamics
Rakesh Bhargava             P. O. Box 726, Sugarland 77487-0726 983-9371
Ground Test & Simulation
(vacant)
Guidance, Navigation & Flight Control
Jayant Ramakrishnan Dynacs 333-4419
History/Heritage
David Potree               Hernandez/mm12
Human Support
(vacant)
In-Space Imaging & Observations
(vacant)
Life Science & Space Processing
(vacant)
Management
(vacant)
Materials, Structures & Dynamics
Gillian Parker             LESC/B30                        333-6239
Space Operations
(vacant)
Space Systems
(vacant)
Thermal Physics
(vacant)