

American Institute of Aeronautics and Astronautics

Houston Section Newsletter

February 1987

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The AIAA Houston Section Newsletter is created and typed by members of the Houston Section. It is reproduced at the Houston offices of Lockheed Engineering and Management Services Company. Address all communications to Vice Chairman of Operations, Lou Livingston, NASA/JSC mail code ED13, 483-2741.

Bill Stewart
Editor



EDITORIALS

Comments from the Chairman

Karen D. Godek

Note: This article appeared in the January 23, 1987 issue of the JSC Roundup.

The National office of the American Institute of Aeronautics and Astronautics has selected the Houston Section as the first place recipient of the 1986 AIAA Special Event Award for the invited lecture series on Fundamentals of Spacecraft Design held last year at the Johnson Space Center. This award, which will be accepted by Robert Lewis of JSC who was Chairman of the Houston Section at the time, will be presented by Dr. Allen Fuhs, AIAA President, during the AIAA annual meeting in Arlington, Virginia, on April 30, 1987.

This honor comes at a time when the Houston Section is encouraging interested professionals to join the organization. The AIAA is divided into six regions nationally, with 66 chapters or sections across the country. The Houston Section, with 1,000 members, competed with such chapters as the Los Angeles and Orange County sections, with a combined membership of over 4,000, to win the outstanding event award. The Houston Section also won second place in the Outstanding Section Award and placed third in the Membership Chairman Award for AIAA sections with 500 members and over.

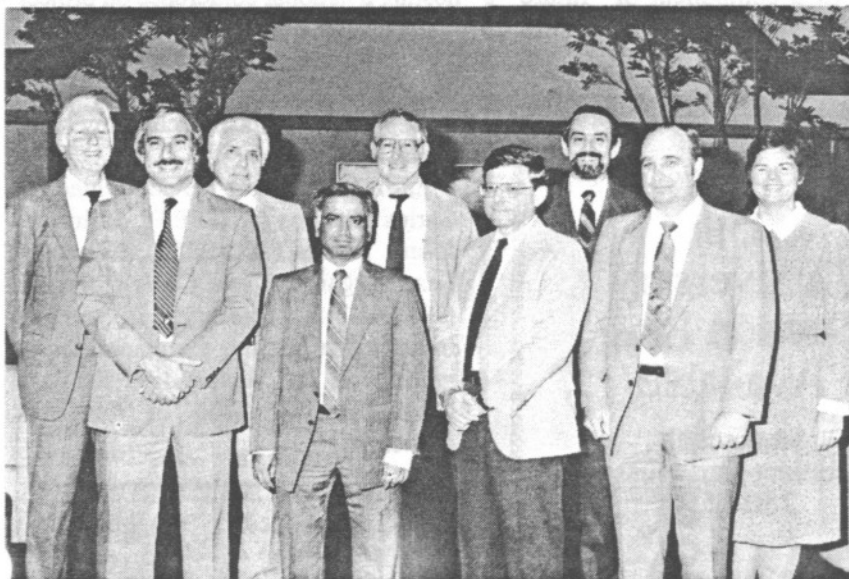
The stated purpose of the AIAA is to advance the arts, sciences and technology of aeronautics and astronautics, and to nurture and promote the professionalism of those engaged in these pursuits. The invited lecture series conducted by the Houston

Section has served as a fine example of the kinds of services the AIAA routinely provides its members.

The yearly membership fee for the AIAA is \$56. Interested persons requiring membership applications should contact Jim Visentine, Code ES5, telephone 483-8923; Bob Lewis, Code EH, telephone 483-8232; or myself, Code EH2, telephone 483-8297.

Address Changes?

If AIAA does not have your correct mailing address, you won't be receiving your mail on time. This includes the Newsletter, which uses mailing labels prepared by Headquarters. Included in this issue is a form letter you can use if you don't want to compose your own. Just fill it out, fold, staple, stamp and mail.



Invited Lecture Series Facilitators (left to right)

Dick Gillen
Jim Visentine
Bob Lewis
Mallik Putcha
Tom Barry
Joe Gamble
Clay Shadeck
Dudley Nelson
Stephanie Vickery

(not pictured)
Dr. Alan Gates
Karen Godek



SECTION ACTIVITIES

Young Cosmonauts Visit JSC

Jim Oberg
Councillor

As part of their national tour last December, ten "young Cosmonauts" visited the Johnson Space Center where they were greeted and hosted by numerous AIAA members. The ten teenagers were accompanied by five Soviet adult staff workers and by civilian cosmonaut Vladimir Solovyov, veteran of the world's longest space mission (eight months in 1984) and recently returned from a duty tour aboard the new "Mir" space station.

The touring Soviets were greeted by JSC Deputy Director Paul J. Weitz, an AIAA senior member and a former astronaut, along with current astronauts Bill Fisher, Jerry Ross, Dave Walker, Bruce McCandless, Kathy Sullivan and Vance Brand. They were shown space station crew module mockups, the RMS trainer and cockpit mockups, and the Mission Control Center (where Solovyov, a former OMS/RCS flight controller at the Soviet Kaliningrad mission control center, met with American colleagues in the same specialty).

For lunch the group was hosted by the Houston Section of the AIAA, and a convenient meal was served at the main JSC cafeteria. After a quick visit to the gift shop, and a gracious exchange of gifts and good wishes, the Russians were off to the airport for another day, another city.

Solovyov was the first Soviet cosmonaut to visit the NASA center in Houston in almost a decade.

Poster Session at February Dinner Meeting

Marian Lewis
Chairman, Life Sciences TC

The Life Sciences Technical Committee is arranging a poster session concurrently with the social hour at the regular dinner meeting February 26. The subject of the session is the NASA Space Bioreactor, which is a self-contained cell culture apparatus designed to operate in microgravity.

The Space Bioreactor will be capable of producing raw biomolecules for microgravity separation of desirable products and will be used to provide cells for the study of the physiological effects of microgravity at the cellular level. In addition, this device operates as an ecological life support system and as such is capable of waste removal and food production. A device such as the Space Bioreactor may become important as a component of future microgravity closed ecological life support systems.

25th
Anniversary
Section Pins
Available

\$4.00 each
contact Carl Huss
280-1553

TECHNICAL COMMITTEE NEWS

Management Technical Committee Formed

Chris Cummins
Secretary, Management TC

The Houston Section has a new Technical Committee. The Houston Section Council accepted a proposal made by a group of interested Section members. Carlos Campos, in his presentation to the Council, indicated the committee would be presenting Lunch & Learn meetings covering project management issues and would be creating a series of project management case studies. In addition to these regular activities, the new Technical Committee has big plans for hosting a national conference on project management during Space Week '88. This conference will focus on how project managers can assist large aerospace projects in achieving their goals.

Initial officers for the committee are Carlos Campos (JSC/PE4), chairman; John Trebes (JSC/SP52), Lunch & Learn organizer; and Chris Cummins (JSC/KX3), secretary. If you are interested in joining the committee or getting on its distribution list, call Carlos at 483-1136 or Chris at 483-0354.



Houston Section Newsletter

February 1987



Mechanics & Control of Flight - Satellite Seminar

Walter J. Lueke
Vice-Chairman, Technical

The new Chairman of this technical committee is planning a very excellent lunch and learn program for March. Utilizing the new satellite facilities at the Gilruth Center, the committee plans to host the live presentation on "Aeroelastic Interactions with Aircraft Flight Control" by Robert L. Swaim of Oklahoma State University, on March 3, 1987. A review of past research in the USA will be given, as well as research needed in the future for new programs such as the National Aerospace Plane. The presentation is scheduled for 11:00 am to 12:45 pm CST and will be free of charge. Please notify the Chairman of the Mechanics and Control of Flight Technical Committee, Mr. Jalal Mapar of LEMSCO at 333-6283 if you are interested in attending, so that adequate seating facilities may be arranged.

Space Systems Lunch and Learn

Al Louviere of Space Industries, Inc., spoke before an audience of 35 in the Building 3 cafeteria on December 9. He outlined Space Industries plans for an Industrial Space Facility and showed great enthusiasm about the recent cooperation agreement signed with Westinghouse. Al, a former NASA employee, discussed the differences between the Space Station and SII's plans and operations. The members of the Space Systems TC look forward to having Al and other members of SII return to speak as progress is made on the Industrial Space Facility.

Upcoming Space Systems TC Lunch & Learns include:

Late February - James Oberg, Rockwell International

Early March - Dieter Lammers, European Space Agency

April - Charlie Mallini, Advanced Programs Office

Life Sciences

Marian L. Lewis, Ph.D.
Chairman, Life Sciences TC

A Life Sciences Technical Committee meeting is scheduled for 12:00 noon on February 27, 1987, in the Building 37 conference room at JSC. The speaker will be Mr. William H. Bowie, a Senior Research Scientist- Bioreactor Development, for the Space Bioreactor Project. Mr. Bowie will present "Aspects of Mass Culture of Cells in Microgravity - Vessel Design Considerations and Cell Growth."

The Life Sciences TC encompasses professional areas of interest including space habitation, astronaut health, human factors, commercialization and pharmaceuticals, and the basic science disciplines of cell and molecular biology, biochemistry and microbiology.

A very brief business meeting will be held to address submission of abstracts for the upcoming 12th Annual Technical Symposium. All interested persons are encouraged to attend this committee meeting.

This space is available for your
Technical Committee meeting announcements

contact: Lou Livingston, 483-6603



WHO'S WHO IN THE HOUSTON SECTION

Fellows and Associate Fellows Named

Twelve members of the Houston Section were recently selected by the AIAA National Membership Committee for Associate Fellow grade in the Institute. Nominees for Associate Fellow must be persons who have demonstrated a successful practice in the arts, sciences or technology of aeronautics or astronautics for a minimum of twelve years. In addition, the number of Associate Fellows selected each year is limited to one for every 150 voting members in the Institute. Those selected in 1986 were:

Rod Bown
Charles Dalton
John Fabian
Jake Klinar
Richard Kohrs
Lou Livingston
Frank Morgan
Steve Nagel
Malik Putcha
Emyre Robinson
John Schuessler
Nancy Wood

The Houston Section is also very fortunate to have had one of its members upgraded to be a Fellow of the Institute. Fellows are "persons of distinction in aeronautics or astronautics who have made notable and valuable contributions to the arts, sciences or technology thereof." This very select honor has been bestowed upon Mr. Vance Brand.

National Technical Committees

In addition to those Houston Section members who serve on National Operations Committees (see January Newsletter), a number from this Section also serve on various National Technical Committees. Thanks to these folks, Houston is represented quite well across a diverse range of technical disciplines.

MEMBER

Robert C. Angier
Al J. Birsinger
Greg C. Blackburn

John Louis Blake
Rodney Bown
Leland A. Carlson

Arthur M. Dula
Glenn Lee Ellis
Walter E. Haisler, Jr.
J. C. Hundley
John W. Kiefer
Kenneth D. Korkan
Stanley H. Lowy
Paul Maley
Humboldt C. Mandell, Jr.
Darryl W. May
Thomas V. McElmurry
Bethene E. McNealy
Stan J. Miley
Gerald L. Morrison
Henry C. Otten
Richard C. Parish
Robert W. Payne
George P. Peterson
Bass Redd
Kyle Rone
Frank Samonski, Jr.
Carl D. Scott
John W. Sifford
Donald K. Slayton
Donald E. Smith
Edwin W. Smythe

TECHNICAL COMMITTEE

Software Systems
Communications Systems
Command, Control,
Communications and
Intelligence
Computer Systems
Computer Systems
Applied Aerodynamics,
Fluid Dynamics
Legal Aspects of Aero. & Astro.
Space Transportation
Space Transportation
Space Systems
Astrodynamics
Aeroacoustics
Aircraft Design
Space Sciences and Astronomy
Economics
Aeroacoustics
Flight Testing
Flight Simulation
Flight Testing
Aeroacoustics
Flight Simulation
Thermophysics
Sensor Systems
Thermophysics
Space Transportation
Software Systems
Life Sciences & Systems
System Effectiveness & Safety
Astrodynamics
Space Transportation
Flight Simulation
Space Sciences & Astronomy,
Space Transportation



National.....(cont'd)

John W. Sunkel
Ralph J. Taeuber
Richard E. Thomas

Srinivas R. Vadali
James T. Visentine
Donald T. Ward
Richard J. Williams
Larry C. Witte
J. N. Yelverton
David C. Zwingman

Guidance, Navigation & Control
Liquid Propulsion
Command, Control,
Communications and
Intelligence
Astrodynamics
Terrestrial Energy Systems
General Aviation Systems
Space Processing
Support Systems
Computer Systems
Digital Avionics

OPPORTUNITIES FOR INVOLVEMENT

Prizes for Top Recruiters

Jim Visentine
Membership Chairman

In commemoration of our 25th anniversary, the Houston Section extends to you an invitation to help our Institute grow. As you are probably aware, professional societies such as ours tend to grow and gain members primarily because of one-on-one contact. When you believe you have something of value, you naturally want to share it with your friends.

Toward these ends, your executive council has designed a membership drive -- which coincides, incidentally, with the AIAA's national membership drive -- in which YOU play a pivotal part. And to make it more interesting and fun, we've built a contest into it. Here's the deal: The member who

brings in the most new members between now and April 30, 1987, will be recognized as the Top Recruiter and will win a \$100 gift certificate redeemable at Macy's department store. The second and third best recruiters will receive free the Hilton's fabulous Sunday brunch for two.

Can you think of any better way to spend a lazy spring afternoon than dining at the Hilton and watching the sailboats, with their beautiful colors, glide effortlessly over the waters of Clear Lake?

I thought not! If you wish to participate in this important membership drive, use the new applications you recently received from AIAA and get started now. To obtain additional applications, you need only give me a call at 483-8923, or contact Nancy McKew of the AIAA Membership Committee in New York at (212) 408-9795. There is no limit to the number of applications you may request, so please give either of us a call at your earliest convenience.

Busy Recruiters

Jim Visentine
Membership Chairman

The Houston Section recognizes the following members for their participation in the "Recruit a Member" campaign. Between October 1 and November 15, 1986, they successfully brought in one or more new members. AIAA applauds their efforts and encourages you to join them in helping the Institute reach its goal of 47,000 members by 1990.

Richard A. Hermling
Stanley H. Lowy
Walter J. Lueke
James C. McLane III
Emyre B. Robinson
James C. Snowden
Stephanie A. Vickery

The next time you see these persons at our monthly meetings or special programs, please tell them "Thanks!" for a job well done.

AIAA Scholarship Established - Donations Requested

Bret Wingert
Young Member Chairman

The Scholarship Committee put its final touches on the Houston Section scholarship program and the first applications are due to the committee in March. The first \$250 scholarship will be awarded this spring. The initial endowment is small and the committee



hopes to increase it through successful section programs. However, the committee calculated at the last meeting that if each member in the section donated \$5 to the scholarship fund the endowment would more than double! Therefore, the scholarship committee is soliciting donations from the general membership.

This scholarship will be awarded to a student in science or engineering attending a school in our region, and based on his or her academic performance and contributions to his or her field. It is a renewable scholarship based on continued academic performance.

Considering today's reduced federal, state and local aid, won't you consider making a contribution? Send it to:

AIAA-Houston Scholarship
P.O. Box 57524
Webster, TX 77598

Note: This may be tax-deductible for you.

Technical Symposium Just Around the Corner

Walter J. Lucke
Vice-Chairman, Technical
NASA/JSC ES361
483-5939

The AIAA Houston Section will hold its 12th Annual Technical Symposium on May 14, 1987, at the University of Houston - Clear Lake. The theme for this year is "Space Frontiers - New Beginnings". A call for abstracts on papers covering work on the Space Shuttle, Space Station and other space activities by the JSC community will

be appearing shortly. Remember, you do not have to be an AIAA member to participate!

The papers should be written so as to be presented in 10 to 15 minutes with a viewgraph or slide format. New topics this year will include Management,

Ethics and Space Engineering, International Space Activities, and Space Commercialization, along with traditional topics covering the technical aspects of space flight. Now is a good time to start your 250 words or less abstract.

THE MEMBERS SPEAK OUT

Dear Lou:

I've been reading articles about international cooperation on the Space Station Program. It seems that the arrangements with Canada and Japan are fairly palatable to those two countries. The Europeans, however, are not happy with what they term a "minor" part in the program. They would like to be "partners". However, their 15% funding and the U.S.' 80% seem to say that they are asking for too much. It seems the old saying "You get what you pay for" applies here. If they want to be partners, why don't they put up some more money?

It would be nice if the President's initiative on international cooperation could be carried out. But we do not need them and they do need us, at least in the near term. Where do the Europeans and others get the audacity to demand more than they deserve? This seems like a typical relationship between the U.S. and other countries (e.g., the United Nations). I say if they continue to insist on an equal share that we get on with it by ourselves and let them link up later as best they can!

Sincerely,
Ernie Hillje

Ernie, quit beating around the bush and say what you think... Official comment is unavailable, so some personal views will have to do. At first glance, the negotiating posture of some of our international partners may appear a bit pushy. It seems to me, however, that it's just that: a negotiating posture.

Demanding more than one expects to get, or will settle for, has to be the world's oldest bargaining ploy. It is, of course, up to us to shape our counteroffers with this in mind. When we don't, it's our fault, not theirs. In the final analysis, isn't this what you're really saying?

Need I add that my comments in this column are MY comments? They don't represent an AIAA position, nor a Houston Section position, nor a NASA position. If I include an official response, it will be explicitly noted as such.

Surely someone besides me has something to say about this. Send it (yes, the mail code changed again) to

Lou Livingston JSC/ED13



Let's Get it Right Lou

Dear Lou:

Referring to my letter and your response in the January 1987 AIAA Houston Section Newsletter:

- 1) I did not mention the Soviets in my letter; why did you?
- 2) Are you saying the PRC is NOT a Communist country? I agree with C.P. Houston's recent political cartoon in the Houston Chronicle (attached).
- 3) You were correct in that "...this isn't germane to your central point..."

Ernie Hillje

1) Rightly or wrongly, I inferred the USSR from your first sentence, which mentioned "communist countries" (plural).

2) I said the PRC was, in my view, Chinese first and communist second. It is, of course, still communist.

o comment.

Lou Livingston JSC/ED13

Don't Miss Out!

Make your
reservations
now for the
February 26th
Dinner meeting
with
Dr. William Ward
from MIT

THE CRANIUM CRUNCHER

Renee Lance

The answer to January's puzzle, which was to find the number of volumes in a set of encyclopedi... was 20. The following people correctly answered the puzzle.

George Wells, MDAC
John Armsparger, Ford M4B
Dave Leestma, CB
Jim McCory
Mary Cerimele, ED2
Carl Scott, ED3
E. W. Smythe, IBM
Scott Murray, EH3
Jack Johnson, EE
James Orr, IBM
in Templin, ED22
er Hasbrook, DH4

Henry Schneider, MDAC T315
Mark Jernigan, FS7
Dave Kaplan, DH62
Charlie Randall, GHG
Mike Tompkins, BX-D
Robert Castle, DF2
Carl Kovich, Alpha Bldg Corp
Steve Gotch, MDAC
John Masetta, Texas A&M
Roscoe Lee, TRW
Norm Hecht, Texas A&M

The winner of the free AIAA dinner is E. W. Smythe. He was chosen randomly from all the correct respondents. Congratulations to him and thank you to all the others who took the time to work the puzzle.

The February Puzzle:

A rectangular floor is composed of square tiles of the same size, 81 along one side, 63 along the other. If a straight line is drawn diagonally across the floor from corner to corner how many tiles will it cross?

Many thanks to Zaki Husain of Daniel Industries for sending in this puzzle. If you have a favorite please send it to me care of Ed Monteiro and I will try to use it. Send your answers to Ed Monteiro, MDAC/T502, 16055 Space Center Blvd., Houston, TX 77062.



UPCOMING EVENTS

Section's Monthly Dinner Meetings

Zafar Taqvi
Programs Chairman

The following outstanding programs have been finalized for the Section's monthly meetings for the rest of this year. Please schedule your activities to avoid any personal conflicts. Further details on the programs and the speakers will be provided in the monthly meeting flyers.

DATE	PROGRAM	SPEAKER
Feb. 26, 1987 Thursday evening	In Celebration of the Pioneers and Voyagers	Dr. William Ward, MIT AIAA Distinguished Speaker
Mar. 26, 1987 Thursday evening	Space Shuttle Status Report	Arnold Aldrich Director, NSTS
Apr. 23, 1987 Thursday evening	Space Telescope	B. R. Bulkin, LMSC Space Telescope Prog. Mgr.
June 4, 1987 Thursday evening	Honors and Awards Program	Slides, etc. (no speaker)

Colorful Program Slated for February 26th Meeting

AIAA Distinguished Lecturer, Dr. William Ward of MIT's Lincoln Laboratory will speak on "In Celebration of the Pioneers and Voyagers: To Jupiter, Saturn, Uranus, and Beyond" at the February dinner meeting of the Houston Section of the American Institute of Aeronautics and Astronautics. The dramatic pictures of Jupiter, Saturn, Uranus, their rings, and their satellites transmitted to Earth by the spacecraft Pioneer 10, 11 (1973-1979), and Voyager 1, 2 (1979-1986) are the culmination of one of the major scientific and engineering enterprises of our time. As we look forward to Voyager 2's encounter with Neptune in August of 1989, it is rewarding to look behind these pictures to see how they came to be; to learn what makes the spacecraft tick. We find that these missions embody far more than science or technology or both. Every area of human activity stands in intimate relationship to them.

During this presentation, Dr. Ward will build these Pioneer and Voyager spacecraft, launch them on their trajectories, sample the scientific data that they gather, and marvel at the unimagined wonders that they reveal. This evening will have something for everyone - don't miss it!

Houston Section P.O. Box 524 Webster, TX 77598

January 1987

1986 - 1987 AIAA Houston Section

<u>OFFICERS</u>	<u>AFFILIATION AND MAIL CODE</u>	<u>WORK PHONE</u>
Chairman Karen D. Godek	NASA/EH2	483-8297
Chairman-Elect Carl R. Huss	MDAC/T511	280-1553
Vice-Chairman, Operations Louis E. Livingston	NASA/ED13	483-6603
Vice-Chairman, Technical Walter J. Lueke	NASA/ES361	483-5939
Secretary Debra L. Nienhaus	LEMSCO/B12	333-6730
Treasurer Scott Satterwhite	IBM/6606A	282-7756
<u>COUNCILLORS</u>		
Kyle O. Fairchild	NASA/ED22	483-6630
Richard A. Hermling	NASA/PB8	483-0445
Ernest R. Hillje	Rockwell/ZC01	282-5337
Robert E. Lewis	NASA/EH	483-8232
Edward J. Monteiro	MDAC/T5A	280-1629
James Oberg	Rockwell/DM53	483-5954
Don Rhorer	IBM/1204A	282-7936
Stephanie A. Vickery	LEMSCO/B12	333-6407
Richard L. West	MDAC/T608	280-1620
(1/87 Dick will not be available until March-April time frame.)		
Nancy Wood	The Space Foundation P.O. Box 58501 Houston, TX 77258	332-0779

<u>SENIOR ADVISORS</u>	<u>AFFILIATION AND MAIL CODE</u>	<u>WORK PHONE</u>
Sharon B. Castle	NASA/DH65	483-5505
Norman H. Chaffee (11/86 Norm is currently at KSC)	NASA/PB	483-6125
Jack C. Heberlig	IBM/4270A	282-7157
Robert E. Lewis	NASA/EH	483-8232
James C. McLane, Jr.	Engineering Consultant 1702 Fairwind, Houston 77062	488-0312
William H. Simmons	NASA/Retired 7511 Glen Heath, Houston 77061	649-2558
Robert R. Stephens (1/87 Robert will not be available until mid-March)	MDAC/T708	280-1560
Charlie Wolfers	MDAC/T605	280-1524
Loren E. Wood	TRW	333-3133
<u>STAFF / REPRESENTATIVES</u>		
Joseph Algranti - RAC IV	NASA/CC-UH	483-7226
E.A. (Doc) Kiessling - ECH	15402 Wandering Trail Friendswood, TX 77546	749-1721 (482-3665)
Bill Best - CLCTS	Rockwell/RS12	282-3597
Jim O. Hudson - Historian	Rockwell/TC12	483-3349
<u>REGION IV ADVISORY COMMITTEE</u>		
Deputy Director - Young Members Bret Wingert	IBM/6606A	282-7756
<u>AD HOC COMMITTEES</u>		

(Logan Haycraft, JR., who held a councillor position, is permanently in Huntsville, AL 205-544-1780)

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

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

January 1987

1986 - 1987 AIAA Houston Section

OPERATIONS COMMITTEE CHAIRMEN

Program and Events		
Zafar Taqvi	LEMSCO/B12	333-6544
Membership		
James T. Visentine	NASA/ES5	483-8923
Young Members		
Bret Wingert	IBM/6606A	282-8944
Student Affairs		
Richard P. Bennett	MDAC/T3B	280-1500 x 3112
Educational/Professional Development		
John W. Sunkel	NASA/PB6	483-5013
Public Affairs		
Quin D. Shepperd II	MDAC/T6A	280-1500 x 3080
Communications/Publicity		
TBD		
Honors and Awards		
Richard L. West	MDAC/T608	280-1620
(1/87 Dick will not be available until March-April time frame.)		
Newsletter		
William A. Stewart	Box 57913	476-1630
(editor)	Webster, TX 77598	

TECHNICAL COMMITTEE CHAIRMEN

Communications Systems		
Ray A. Baker	LEMSCO-NASA/C22	483-0078
Computer and Software Systems		
Edward J. Monteiro	MDAC/T5A	280-1629
Energy Systems		
Dr. Frank Baiamonte	NASA/EP5	483-9046
Ground and Test Simulation		
Charles A. Ritriui	Rockwell/ZC01	282-5238
Materials, Structures, and Dynamics		
Don Probe	LEMSCO/B12	333-6276
Space Systems		
William Bryan	IBM/6606B	282-7767
Mechanics and Control of Flight		
Jalal Mapar	LEMSCO/B12	333-6283
Life Science Space Processing		
Dr. Marian L. Lewis	Technology Inc./SD5	483-7229
Management		
Carlos S. Campos	NASA/PE-411	482-1136
International Space Activities		
Kyle O. Fairchild	NASA/ED22	483-6630

(FOLD, STAPLE AND MAIL)

February 11, 1987

Ms. Ellen Marzullo
Director, Membership Programs
AIAA Headquarters
1633 Broadway New York, NY 10019

Dear Ms. Marzullo:

Please be advised that my mailing address and/or telephone number have changed and are different from that which appears on my subscription to Aerospace America and in the 1986-1987 AIAA membership roster.

To continue uninterrupted service, please correct this information as follows:

New work telephone number: (____) _____

New work address: _____

New home telephone number: (____) _____

New home address: _____

Sincerely yours,

AIAA Houston Section
Membership No.: _____
Renewal Date: _____

AIAA February Schedule

- 10 **TUESDAY**
COMPUTER AND SOFTWARE SYSTEMS TC LUNCH AND LEARN
PROGRAM-TBD
FRANCO'S 1101 NASA RD 1 11:45-1:00PM
INFORMATION: ED MONTEIRO 280-1629
- 18 **WEDNESDAY**
EXECUTIVE COUNCIL MEETING
JSC BLDG 16 RM 151 4:30 PM
SECRETARY: DEBRA NIENHAUS 333-6730
- 26 **THURSDAY**
SPACE SYSTEMS TC LUNCH AND LEARN
JIM OBERG "TETHERED SATELLITE SYSTEMS"
RSOC BUILDING 600 GEMINI MIC ROOM (USE LOBBY) 11:30-12:30PM
INFORMATION: ANDRE SLVESTER 483-1537
- 26 **THURSDAY**
HOUSTON SECTION DINNER MEETING
DR. WILLIAM WARD MIT AIAA DISTINGUISHED SPEAKER
"IN CELEBRATION OF THE PIONEER AND VOYAGER SPACECRAFT"
NASA JSC GILRUTH CENTER 5:30/ 7:30 PM SOCIAL/PROGRAM
INFORMATION AND RESERVATIONS: SEE FLYER
- 27 **FRIDAY**
LIFE SCIENCES AND SPACE PROCESSES TC LUNCH AND LEARN
WILLIAM BOWIE, KRUG INTERNATIONAL, LIFE SCIENCES DIVISION
"MASS CULTURE OF CELLS IN MICRO GRAVITY"
JSC BLDG 37 CONFERENCE ROOM 12 NOON
INFORMATION: MARION LEWIS 483-7229

Other Technical Activities in February

- 2 **MONDAY**
SPACEWEEK: SPACE MANAGEMENT COUNCIL
HOLIDAY INN 1300 NASA RD 1 DIPLOMAT ROOM 11:30-1:00 PM
INFORMATION: DENNIS STONE 483-0407
- 4 **WEDNESDAY**
JSC ASTRONOMY BROWN BAG SEMINAR
REPORT ON THE FALL AMERICAN GEOPHYSICAL UNION MEETING
DR.'S JIM ZIMBELMAN(LPI), BUCK SHARPTON(LPI) & CHUCK WOOD(NASA)
JSC BLDG 31 RM 193 12:00 TO 1:00 PM
INFORMATION: AL JACKSON 280-2296
- 11 **WEDNESDAY**
JSC ASTRONOMY BROWN BAG SEMINAR
SPACE FLIGHT 1955 STYLE-VIDEOTAPE
DR WERNER VON BRAUN
JSC BLDG 31 RM 193 12:00 TO 1:00 PM
INFORMATION: AL JACKSON 280-2296
- 18 **WEDNESDAY**
JSC ASTRONOMY BROWN BAG SEMINAR
BETWEEN A STAR AND A HARD PLACE: EDUCATION AT OREGON SATE
UNIVERSITY-DR. JULIUS DASCH (NRC)
JSC BLDG 31 RM 193 12:00 TO 1:00 PM
INFORMATION: AL JACKSON 280-2296
- 24 **TUESDAY**
IEEE HOUSTON SECTION PRO-AM DAY
INFORMATION: RAY BAKER 483-0078
- 25 **WEDNESDAY**
JSC ASTRONOMY BROWN BAG SEMINAR
PLANETARY STABILITY IN STELLER PLANETARY SYSTEMS
W. D. KELLY (LOCKHEED)
JSC BLDG 31 RM 193 12:00 TO 1:00 PM
INFORMATION: AL JACKSON 280-2296
- 26 **THURSDAY**
IEEE VIDEO CONFERENCE
"OPTICAL DISC STORAGE TECHNOLOGY"
JSC GILRUTH CENTER
INFORMATION: RAY BAKER 483-0078

Calendar courtesy of Bill Best, Clear Lake Council of Technical Societies
Representative

AIAA News

AMERICAN
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AND
ASTRONAUTICS

.....
HOUSTON SECTION

OUTSTANDING SECTION AWARD



1975-1976
1976-1977
1979-1980
1980-1981
1981-1982
1983-1984

SECTION SPECIAL EVENT AWARD



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

In this 'exciting issue.....

The debate continues over Foreign Relations

Free satellite symposium offered

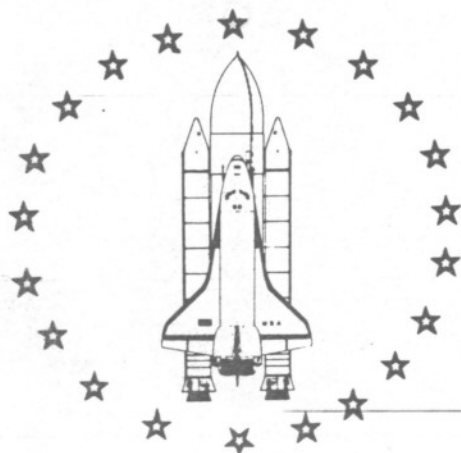
Scholarship fund established

Technical Committees are really on the move

Fellows and Associate Fellows announced

Plus.... all the usual great features

HOUSTON SECTION



Non-Profit Organization

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