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.

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.
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 plans 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
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. Wite
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

osos starts

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. Luceke
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

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, I 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.
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!

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

Lou Livingston JSC/ED13

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?

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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

THE CRANIUM CRUNCHER

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
J. 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

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.

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

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!
## Officers

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Affiliation and Mail Code</th>
<th>Work Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman</td>
<td>Karen D. Godek</td>
<td>NASA/EH2</td>
<td>483-8297</td>
</tr>
<tr>
<td>Chairman-Elect</td>
<td>Carl R. Huss</td>
<td>MDAC/T511</td>
<td>280-1553</td>
</tr>
<tr>
<td>Vice-Chairman, Operations</td>
<td>Louis E. Livingston</td>
<td>NASA/ED13</td>
<td>483-6603</td>
</tr>
<tr>
<td>Vice-Chairman, Technical</td>
<td>Walter J. Lueke</td>
<td>NASA/ES361</td>
<td>483-5939</td>
</tr>
<tr>
<td>Secretary</td>
<td>Debra L. Nienhaus</td>
<td>LEMSCO/B12</td>
<td>333-6730</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Scott Satterwhite</td>
<td>IBM/6606A</td>
<td>282-7756</td>
</tr>
</tbody>
</table>

## Senior Advisors

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation and Mail Code</th>
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<tbody>
<tr>
<td>Sharon B. Castle</td>
<td>NASA/DH65</td>
<td>483-5505</td>
</tr>
<tr>
<td>Norman H. Chaffee</td>
<td>NASA/PB</td>
<td>483-6125</td>
</tr>
<tr>
<td>Jack C. Heberlig</td>
<td>IBM/4270A</td>
<td>282-71157</td>
</tr>
<tr>
<td>Robert E. Lewis</td>
<td>NASA/EH</td>
<td>483-8232</td>
</tr>
<tr>
<td>James C. McLane, Jr.</td>
<td>Engineering Consultant</td>
<td>488-0312</td>
</tr>
<tr>
<td>William H. Simmons</td>
<td>NASA/Retired</td>
<td>649-2558</td>
</tr>
<tr>
<td>Robert R. Stephens</td>
<td>MDAC/T708</td>
<td>280-1560</td>
</tr>
<tr>
<td>Charlie Wolters</td>
<td>MDAC/T605</td>
<td>280-1524</td>
</tr>
<tr>
<td>Loren E. Wood</td>
<td>TRW</td>
<td>333-3133</td>
</tr>
</tbody>
</table>

## Staff / Representatives

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation and Mail Code</th>
<th>Work Phone</th>
</tr>
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<tbody>
<tr>
<td>Joseph Algranti</td>
<td>NASA/CC-UH</td>
<td>483-7266</td>
</tr>
<tr>
<td>E.A. (Doc) Kiessling</td>
<td>15402 Wandering Trail</td>
<td>749-1721</td>
</tr>
<tr>
<td></td>
<td>Friendswood, TX 77546</td>
<td>(482-3665)</td>
</tr>
<tr>
<td>Bill Best</td>
<td>Rockwell/RS12</td>
<td>282-3597</td>
</tr>
<tr>
<td>Jim O. Hudson</td>
<td>Rockwell/TC12</td>
<td>483-3349</td>
</tr>
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## Region IV Advisory Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation and Mail Code</th>
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<tbody>
<tr>
<td>Deputy Director - Young Members</td>
<td>IBM/6606A</td>
<td>282-7756</td>
</tr>
<tr>
<td>Bret Wingert</td>
<td></td>
<td></td>
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## Councillors

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Kyle O. Fairchild</td>
<td>NASA/ED22</td>
<td>483-6630</td>
</tr>
<tr>
<td>Richard A. Hermes</td>
<td>NASA/PB</td>
<td>483-0445</td>
</tr>
<tr>
<td>Ernest R. Hilje</td>
<td>Rockwell/ZC01</td>
<td>282-5337</td>
</tr>
<tr>
<td>Robert E. Lewis</td>
<td>NASA/EH</td>
<td>483-8232</td>
</tr>
<tr>
<td>Edward J. Monteiro</td>
<td>MDAC/T5A</td>
<td>280-1629</td>
</tr>
<tr>
<td>James Oberg</td>
<td>Rockwell/DM53</td>
<td>483-5954</td>
</tr>
<tr>
<td>Don Rhorer</td>
<td>IBM/1204A</td>
<td>282-7936</td>
</tr>
<tr>
<td>Stephanie A. Vickery</td>
<td>LEMSCO/B12</td>
<td>333-6407</td>
</tr>
<tr>
<td>Richard L. West</td>
<td>MDAC/T608</td>
<td>280-1620</td>
</tr>
<tr>
<td>Nancy Wood</td>
<td>The Space Foundation</td>
<td>332-0779</td>
</tr>
<tr>
<td>(1/87 Dick will not be available until March-April time frame.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nancy Wood</td>
<td>P.O. Box 58501</td>
<td></td>
</tr>
<tr>
<td>Houston, TX 77258</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Logan Haycraft, JR., who held a councillor position, is permanently in Huntsville, AL  205-544-1780)</td>
<td></td>
<td></td>
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</tbody>
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### OPERATIONS COMMITTEE CHAIRMEN

<table>
<thead>
<tr>
<th>Program and Events</th>
<th>Zafar Taqvi</th>
<th>LEMSCO/B12</th>
<th>333-6544</th>
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<tbody>
<tr>
<td>Membership</td>
<td>James T. Visentine</td>
<td>NASA/ES5</td>
<td>483-8923</td>
</tr>
<tr>
<td>Young Members</td>
<td>Bret Wingert</td>
<td>IBM/6606A</td>
<td>282-8944</td>
</tr>
<tr>
<td>Student Affairs</td>
<td>Richard P. Bennett</td>
<td>MDAC/T3B</td>
<td>280-1500 x 3112</td>
</tr>
<tr>
<td>Educational/Professional Development</td>
<td>John W. Sunkel</td>
<td>NASA/PB6</td>
<td>483-5013</td>
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<td>Public Affairs</td>
<td>Quin D. Shepperd II</td>
<td>MDAC/T6A</td>
<td>280-1500 x 3060</td>
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<td>Communications/Publicity</td>
<td>TBD</td>
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<tr>
<td>Honors and Awards</td>
<td>Richard L. West</td>
<td>MDAC/T608</td>
<td>280-1620</td>
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<tr>
<td>(1/8 Dick will not be available until March-April time frame.)</td>
<td></td>
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<tr>
<td>Newsletter</td>
<td>William A. Stewart (editor)</td>
<td>Box 57913</td>
<td>476-1630</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Webster, TX 77598</td>
<td></td>
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</tbody>
</table>

### TECHNICAL COMMITTEE CHAIRMEN

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Details</th>
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<tbody>
<tr>
<td>10 TUESDAY</td>
<td>COMPUTER AND SOFTWARE SYSTEMS TC LUNCH AND LEARN PROGRAM TBD</td>
<td>FRANCO'S 1101 NASA RD 1 11:45-1:00PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INFORMATION: ED MONTEIRO 280-1629</td>
</tr>
<tr>
<td>18 WEDNESDAY</td>
<td>EXECUTIVE COUNCIL MEETING</td>
<td>JSC BLDG 16 RM 151 4:30 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SECRETARY: DEBRA NIENHAUS 333-6730</td>
</tr>
<tr>
<td>26 THURSDAY</td>
<td>SPACE SYSTEMS TC LUNCH AND LEARN</td>
<td>JSC BUILDING 600 GEMINI MIC ROOM (USE LOBBY) 11:30-12:30PM</td>
</tr>
<tr>
<td></td>
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<td>INFORMATION: ANDRE SLVESTER 483-1537</td>
</tr>
<tr>
<td>26 THURSDAY</td>
<td>HOUSTON SECTION DINNER MEETING</td>
<td>NASA JSC GILRUTH CENTER 5:30/7:30 PM SOCIAL/PROGRAM</td>
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<td>INFORMATION AND RESERVATIONS: SEE FLYER</td>
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<tr>
<td>27 FRIDAY</td>
<td>LIFE SCIENCES AND SPACE PROCESSES TC LUNCH AND LEARN</td>
<td>WILLIAM BOWIE, KRUG INTERNATIONAL, LIFE SCIENCES DIVISION</td>
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<tr>
<td></td>
<td></td>
<td>&quot;MASS CULTURE OF CELLS IN MICRO GRAVITY&quot;</td>
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<td>JSC BLDG 37 CONFERENCE ROOM 12 NOON</td>
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<td>INFORMATION: MARION LEWIS 483-7229</td>
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## Other Technical Activities in February

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>2 MONDAY</td>
<td>SPACEWEEK: SPACE MANAGEMENT COUNCIL</td>
<td>HOLIDAY INN 1300 NASA RD 1 DIPLOMAT ROOM 11:30-1:00 PM</td>
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<td>INFORMATION: DENNIS STONE 483-0407</td>
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<tr>
<td>4 WEDNESDAY</td>
<td>JSC ASTRONOMY BROWN BAG SEMINAR</td>
<td>REPORT ON THE FALL AMERICAN GEOPHYSICAL UNION MEETING</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DR'S JIM ZIMBELMAN(LPI), BUCK SHARPTON(LPI) &amp; CHUCK WOOD(NASA)</td>
</tr>
<tr>
<td>11 WEDNESDAY</td>
<td>JSC ASTRONOMY BROWN BAG SEMINAR</td>
<td>SPACE FLIGHT 1955 STYLE-VIDEO TAPE</td>
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<td>DR WEINER VON BRAUN</td>
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<tr>
<td>18 WEDNESDAY</td>
<td>JSC ASTRONOMY BROWN BAG SEMINAR</td>
<td>BETWEEN A STAR AND A HARD PLACE: EDUCATION AT OREGON STATE UNIVERSITY</td>
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<tr>
<td></td>
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<td>DR JULIUS DASCH (NRC)</td>
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<tr>
<td>24 TUESDAY</td>
<td>IEEE HOUSTON SECTION PRO-AM DAY</td>
<td>INFORMATION: RAY BAKER 483-0078</td>
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<tr>
<td>25 WEDNESDAY</td>
<td>JSC ASTRONOMY BROWN BAG SEMINAR</td>
<td>PLANETARY STABILITY IN STELLER PLANETARY SYSTEMS</td>
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<td>W. D. KELLY (LOCKHEED)</td>
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<tr>
<td>26 THURSDAY</td>
<td>IEEE VIDEO CONFERENCE</td>
<td>&quot;OPTICAL DISC STORAGE TECHNOLOGY&quot;</td>
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<td>JSC GILRUTH CENTER</td>
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<tr>
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<td>INFORMATION: RAY BAKER 483-0078</td>
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</tbody>
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Calendar courtesy of Bill Best, Clear Lake Council of Technical Societies Representative
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