AIAA HOUSTON SECTION 1981-1982 DINNER MEETINGS
HELD AT JOHNSON SPACE CENTER
ROBERT R. GILRUTH RECREATION CENTER
Social: 6:00
Dinner: 7:00
Program: 8:00

TUESDAY - APRIL 20, 1982

PLANNING PRIORITIES
AND POLITICS

JOSEPH G. GAVIN, JR.
PRESIDENT
GRUMMAN CORPORATION

AIAA FELLOW
AIAA PRESIDENT 1981-1982

DURING THE DAY IN THE GILRUTH RECREATION CENTER
THE 7th ANNUAL TECHNICAL MINI-SYMPOSIUM
THEME: SPACE SHUTTLE DEVELOPMENT AND FLIGHT RESULTS

FOR DINNER RESERVATIONS, CALL:

HAZEL 333-6161
(Joan Lewis)

JOANNE 333-2030

PATTY 488-5660

NANCY 483-3995

SYLVIA 845-7541

ENTREE - BEEF MANDARIN
MEMBERS & SPOUSES $7.50
NON-MEMBERS $8.50
STUDENT DISCOUNT $2.00

RESERVATIONS DEADLINE IS FRIDAY - APRIL 16 at 12:00 NOON
DINNER CANCELLATIONS ARE REQUIRED
ALL ARE WELCOME
THERE IS NO CHARGE FOR ATTENDING THE PROGRAM ONLY
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The Houston Section NEWSLETTER is published periodically at the Houston Offices of IBM by the Houston Section AIAA. Address all communications to Carolynn Conley, Associate Editor, NASA-JSC, Mail Code CH4, Houston, Texas 77058. W. A. Stewart, Editor

EDITORIAL

Positive Growth...Membership and Section Contributions Increase - On March 1, 1982, Houston Section membership reached a new high of 867 members:

- 2 Honorary Fellows
- 8 Fellows
- 93 Associate Fellows
- 756 Members
- 8 Associate members
- 867 Total

Many Space Shuttle papers are being given nationwide. A much stronger focus has been given to STS operations by the announcement of the Flight Crews through STS-6.
The section has achieved an outstanding response of papers for the 7th Annual Technical mini-symposium to be held April 20, 1982. Congratulations to all participants.

Jack Heberlig
Chairman

MINI-SYMPOSIUM '82; Over 120 Papers Received

Plans are rapidly solidifying for our big day on April 20. I can now report to you, with great satisfaction, that we received over 120 papers to consider for this year's mini-symposium - an all time record. The subcommittees for paper screening and session organization have met, done their basic work, and created eight (8) equivalent full day sessions as follows:

<table>
<thead>
<tr>
<th>SESSION</th>
<th>NO. OF PAPERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I - SPACE SCIENCE AND REMOTE SENSING</td>
<td>8</td>
</tr>
<tr>
<td>II - INFORMATION SYSTEMS</td>
<td>14</td>
</tr>
<tr>
<td>IIIA - MECHANICS &amp; CONTROL OF FLIGHT (FLIGHT TEST RESULTS)</td>
<td>18</td>
</tr>
<tr>
<td>IIIB - MECHANICS &amp; CONTROL OF FLIGHT (DEVELOPMENT PHASE)</td>
<td>15</td>
</tr>
<tr>
<td>IV - VEHICLE SUPPORT, TESTING, &amp; VERIFICATION</td>
<td>14</td>
</tr>
<tr>
<td>V - ENERGY SYSTEMS, STRUCTURES, &amp; THERMAL</td>
<td>15</td>
</tr>
<tr>
<td>VI - SPACE SYSTEMS</td>
<td>14</td>
</tr>
<tr>
<td>VII - AEROSPACE TECHNOLOGY &amp; TECHNIQUES</td>
<td>14</td>
</tr>
<tr>
<td>VIII - DATA PROCESSING TECHNIQUES</td>
<td>14</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>118</strong></td>
</tr>
</tbody>
</table>

Only a very few papers (6 or so) were withdrawn, rejected, or received too late to be accepted.

The Session Chairmen listed for this year are as follows:

- SESSION I - DON TEEGARDEN  
- II - AL BRANDLI  
- IIIA - ROSCOE LEE  
- IIIIV - STEPHAN VICKERY  
- IV - STAN FABER  
- V - TOM MOSER  
- VI - HUGH DAVIS  
- VII - PHIL HOPKINS  
- VIII - WAYNE MUSIAL

All of these Chairmen have been assigned the responsibility for the review of their respective sessions. Authors are now being contacted by these chairmen to coordinate and/or correct any problems, changes, or errors pertinent to the abstracts, session scheduling, and presenter assignments.

As of March 10, instructions to the session chairmen; alphabetical listings of all authors/co-authors; and assignments of papers to appropriate sessions had been completed and mailed to Session Chairmen. Authors are now being contacted by these chairmen to coordinate and/or correct any problems, changes, or errors pertinent to the abstracts, session scheduling, and presenter assignments.

At this time, author managements should be establishing review procedures and dry-run sessions to ensure that we meet the objective of General Chairman, Max Faget, in improving the quality of Technical presentations this year. A little extra attention by both the authors and their superiors should bear fruit in upgrading the content, professionalism, and delivery of these presentations.
Session Schedule

For your early planning, the current schedule plan for this year's mini-symposium is as follows:

8:00-9:00 AM  REGISTRATION
9:00 - 11:55 AM  MORNING SESSION
10:20-10:35 AM  COFFEE BREAK
11:55 - 1:00 PM  LUNCH
1:00 - 3:55 PM  AFTERNOON SESSIONS
2:20 - 2:35PM  COFFEE BREAK
3:55 - 5:00 PM  PLENARY SESSION
6:00 - 7:00 PM  SOCIAL HOUR
7:00 - 8:00 PM  BANQUET DINNER
8:00 -  AIAA PRESIDENT'S ADDRESS

Be sure and make your advance reservations for the evening banquet before the deadline, unless you plan to attend after dinner at 8PM for Mr. Gavin's address only.

Don't miss this fine event!
See you there.

Program: Plenary Session (3:55 to 5:00 PM) - Space Utilization

NASA Space Outlook ..........Frank Van Rensselaer
DOD Space Outlook ..........Major General John E. Kulpa, Jr.

Joseph P. Loftus, Jr., is Chief, Technical Planning Office, JSC. Frank Van Rensselaer is Director, Upper Stage Division, NASA Hq and Senior Policy Analyst Office of Science and Technology Policy, Executive Office of the President. Major General John E. Kulpa, Jr., is Director of Special Projects Office of the Secretary of the Air Force Deputy Commander for Space Operations USAF Space Division.

C. B. Wolters
Vice President-Technical

- 82-'83 ELECTIONS

A pre-ballot containing recommendations from the nominating committee for 1982-83 officers and council members is being mailed to you. Review nominations and return write-in candidates by April 9, 1982.

Final ballots will be mailed in April.

Sharon Barnes

- CLEAR LAKE COUNCIL OF TECHNICAL SOCIETIES (CLCTS)

The CLCTS has established a monthly calendar to give high visibility to the various meetings and events that are being held in the local area. All of the current CLCTS Member Organizations should ensure that Andy Lindberg (LEMSCO, 483-3549) is aware of their upcoming events. In addition, any other related groups such as the Astronomy Club, Radio Control Club, etc., are encouraged to submit this type of information to Andy. The calendars will be made available to all of the Member Organizations and to others on request.
AIAA NATIONAL SPACE POLICY GETS ATTENTION

This letter I received from Congressman Jack Brooks and his words of praise for us on the floor of the United States Congress mean a great deal to me.

I wanted to take this time to share my feelings with you. What Congressman Brooks has done is an indication that our dedication and hardwork has all been worthwhile.

Jim Visentine

(See attached letter)

NATIONAL SPACE POLICY

The SPEAKER pro tempore. Under a previous order of the House, the gentleman from Texas (Mr. Brooks) is recognized for 5 minutes.

Mr. BROOKS. Mr. Speaker, I ask unanimous consent to address the House for 1 minute and to include extraneous material.

Mr. Speaker, on a recent trip to Texas I had the pleasure of visiting the Lyndon B. Johnson Space Center in Houston. While I was there I met with several people from the Houston Section of the American Institute of Aeronautics and Astronautics. I was most favorably impressed by this group and found their proposal concerning our Nation's space policy to be meritorious and worthy of consideration. I am putting the AIAA policy statement in the Congressional Record for the enlightenment of the Members:

NATIONAL SPACE POLICY: A PROPOSAL BY HOUSTON SECTION-AIAA
February 2, 1982

Dear Mr. Visentine:

I enjoyed meeting with you during my tour of the Johnson Space Center last week, and I am looking forward to meeting with your general membership. I appreciate the information you provided me. Want to assure you that I support your organization's outstanding work, and the goals that you have set for our Nation's further exploration of space.

I thank you for your kind offer to provide me and my staff with the technical assistance that I am going to need to represent our joint interests before the appropriate committees of Congress and on the Floor of the House, and I look forward to working with you closely in the future.

With best wishes, I am

Sincerely,

[Signature]

Mr. James T. Visentine
Chairman, Public Policy Committee
American Institute of Aeronautics and Astronautics
Houston Section
P. O. Box 57524
Webster, Texas 77598
SUMMER COURSES AVAILABLE

Listed below are courses to be offered at UM/CLC this summer which may be of interest to the aerospace community. Registration begins Tuesday, June 1. Classes begin Monday, June 7 and end Tuesday, August 3. Any questions about a particular course should be addressed to the professor named below.

John W. Sunkel
Chairman CEC

SUMMER COURSES

PROC 3134 ENERGY TRANSDUCERS 1800-2045 TTh Fullen
PROC 5233-01 MEASUREMENTS IN OIL & GAS SYSTEMS 1800-2045 MW Turner
5931-01 TOP: DIST. PARAMETRIC CONTROL SYST. 1800-2045 TTh Hasdorff
5931-02 TOP: DYNAMICS AND CONTROL OF LARGE SPACE STRUCTURES 1800-2045 TTh Sunkel
5931-04 TOP: OPTIMIZATION THEORY 1800-2045 MW Basu
CSCI 3131 BASIC 1800-2045 TTh Robinson
3132-01 PASCAL 1800-2045 MW Leung
3132-02 PASCAL 1800-2045 TTh Alexander
3234-01 FORTRAN 1800-2045 TTh Walker
3331-01 ASSEMBLY LANGUAGE 1500-1745 MW Lekkos
3331-02 COMPUTER SCIENCE I 1800-2045 MW Husband
4532-01 DATA STRUCTURES 1800-2045 TTh Grafton
CTEC 3131-01 MEDIUM & LARGE SCALE DIG. INT. CIR. 1800-2045 TTh Goodwin
3132-01 LOGIC ANALYSIS 0900-1145 TTh Turner
3331-02 DIG. INFO CODING & COMM. 1400-1645 TTh Collins
3531-01 COMP. ARCH: MINI & MICRO 1800-2045 MW Staff
4931-01 TELECOMM. OPERATIONS 0900-1145 TTh Collins
5332-01 SYN. OF SEQ. LOGIC 1400-1645 MW Husband
5931-01 TOP: COMP. ARCH. FUNDS NON-MAJORS 1800-2045 MW Bown
5931-02 TOP: ROBOTICS 1800-2045 TTh Harmon
EOPT 3333-01 ELEC FOR OPTICS 1800-2045 TTh Lawrence
4531 ELECTRO-OPTICAL INSTRUMENT 1800-2045 TTh Reyna

COULD BE THE WARM WEATHER...!

I'm still getting a few answers from the puzzles of a couple of months ago—I don't know if the Post Office is slow or if you folks are slow! Anyway, a later list of those who figured out that the sultan had 231 kids includes:

Don Hervey - Brown and Root
Raymond Wilten - Texas A&M
V. Iyer - Texas A&M
L. R. Hamilton - NASA/MG
Ramesh Khatri - NASA/CH4

Some others who realized the Program Manager was buying house numbers were:

Tom Henderson - NASA/FE4
Scott Collier - Texas A&M
Charlie Hayes
Dave Doucette - Texas A&M
John Zernest - IBM
Dave Gilbert - NASA/EH13
Gus Babb - NASA/FM2

Congratulations to all you smarties!
Here We Go Again: The Cruncher Challenge

Because of the lead time involved in getting out the Newsletter, I haven't heard from anyone on the March puzzle (as of 3/11), so I will publish those results next month. In the meantime here's your April challenge:

"Around a cylindrical tube, outside circumference 4", length 9", 10 turns of a wire are helically wound. The ends of the wire coincide with the ends of the same cylindrical element. Find the length of the wire."

Send your answers to Norman Chaffee, NASA-JSC, Mail Code EP, Houston, Texas 77058. First correct answer gets a free dinner at a future AIAA meeting.

PUBLIC AFFAIRS COMMITTEE ACTIVITIES

Tom Murtagh has taken over the reigns of the Tour Group. Tom is a past Chairman of the Houston Section, has been involved in student activities at the national level, and has assisted both the AIAA and NASA-JSC with speaking engagements and conducting tours. He is well experienced for this type of activity.

Tom can be contacted at 483-3217 (NASA-JSC-FD4), for those interested in helping with the AIAA-conducted tours or those who know of any groups wanting an AIAA tour.

The Tour Group hosted a contingent of the Wichita State University Student Chapter on March 13, 1982. Ernie Hillje and Lou Livingston acted as tour guide and host, respectively and were assisted by JSC-Public Affairs for the MCC portion of the tour.

The Public Awareness Group of the Public Affairs Committee has been heavily involved with both Spaceweek '82-Houston and the Science Fair. Joe Bufkin (NASA-JSC-EP) can be contacted at 483-5437 for information on the status of events for Spaceweek. Ernie Hillje has been coordinating with David Bell (Student Affairs Committee) on the Science Fair activities.
March 15, 1982

TO:        AIAA Houston Section Membership

FROM:      Sharon G. Barnes
            Nominating Committee Chairman

SUBJECT:   1982-83 Election Pre-Ballot
            for Houston Section Officers and Council

The enclosed ballot is the recommendation of the Nominating Committee of the Houston Section. The section bylaws allow for the writing-in of candidates to the Secretary, Marvin White (LEMSCO). In such cases, the name of the nominee and the office for which he is being nominated should be stated and signed by at least five percent of the membership. Nominations will be received by the Secretary until April 9, 1982. The final official ballot will include any such nominations and will be mailed in mid April.

The 1982-83 Nominating Committee consisted of the following members:

Norman Chaffee .................. JSC/EP
Charles Jacobsen ................ MDTSCO
James McLane .................... Senior Advisor
William Simmons ................. Senior Advisor
Marvin White .................... LEMSCO

Sharon G. Barnes
Chairman Elect
AIAA Houston Section
1982-83 AIAA NOMINATION BALLOT  
(CONTINUED)

Councillor (Group #1)  
(One to be Elected)  

Larry Friesen  
(MDTSCO)  

Karen Godek  
(LEMSCO)  

Write-In

Councillor (Group #2)  
(One to be Elected)  

David P. Huntsman  
(NASA/CF4)  

Angelica Perez  
(NASA/EX)  

Write-In

Councillor (Group #3)  
(One to be Elected)  

Andrei Konradi  
(NASA/SN3)  

Richard J. Williams  
(NASA/SN7)  

Write-In

Councillor (Group #4)  
(One to be Elected)  

M. P. Frank  
(NASA/CA8)  

Frederick H. Hauck  
(NASA/CB)  

Donald R. Puddy  
(NASA/CF)  

Write-In

RETURN TO M. E. WHITE, LOCKHEED ENGINEERING & MGMT. SERV. CO  
1830 NASA ROAD 1  
HOUSTON, TX 77058
1982-83 AIAA NOMINATION BALLOT
(CONTINUED)

Councillor (Group #5)
(One to be Elected)

Dr. Walter J. Horn
(UHCLC)

Dr. Rodney Bown
(UHCLC)

Write-In

Councillor (Groups #6 & 7)
(Two to be Elected)

Henry N. Bowes
(LEMSCO)

Lamar D. Bowles
(RI)

Max Faget
(Eagle Engineering)

Logan Haycraft, Jr.
(Boeing)

Michael Jordan
(Hamilton Standard)

Carl Peterson
(TRW)

Write-In

RETURN TO M. E. WHITE, LOCKHEED ENGINEERING & MGMT. SERV. CO.
1830 NASA ROAD 1
HOUSTON, TX 77058
1982-83 AIAA - HOUSTON SECTION

NOMINATION BALLOT

(Please Return to Marvin White, Secretary, by April 9, 1982)

Chairman-Elect

Charles V. Wolfers
(MDTSCO)

Write-In

Vice-Chairman Technical

Robert E. Lewis
(NASA/EHB)

Robert J. Ward
(NASA/WA3)

Write-In

Vice-Chairman Operations

Robert V. Glowczewski
(Martin-Marietta)

Willis W. Hinton
(MDTSCO)

Write-In

Secretary

Richard B. Davidson
(NASA/PH)

Write-In

Treasurer

Carl R. Huss
(Retired)

J. M. Parks
(LEMSCO)

Write-In

RETURN TO M. E. WHITE, LOCKHEED ENGINEERING & MGMT SERV. CO.
1830 NASA ROAD 1
HOUSTON, TX 77058
UPCOMING AIAA HOUSTON SECTION MEETINGS

DATE

April 20
Mini-Symposium
Space Shuttle Development and Flight Results

April 20
Planning Priorities and Politics
Joseph G. Gavin, Jr.
AIAA President
Dinner Speaker

May 21
50th Anniversary Celebration
Bldg. 2 Auditorium