

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS
HOUSTON SECTION
NEWSLETTER

February 1982

IN THIS ISSUE

o Editorial.....	1	Systems for the '80's	
Award...Outstanding Section...	1	IEEE Call for Papers.....	5
o Mini-Symposium...April 20.....	2	AAS Conference Planning	
o Solar Eclipse Tour.....	3	Meeting - March 10.....	6
o New Associate Fellows Named.....	3	TSPE February Meeting	
o Section Hears NASA Counsel		Beard and Jones Talk.....	6
Hosenball.....	3	Society of Women Engineers	
o Houston Section-Firstest with		Holds Seminar.....	6
the Mostest.....	4	o AIAA Houston Section Lists	
o Symposia, Meetings, et al		New Members.....	7
Sailing, Sailing...12th		o Another Cruncher.....	8
Ancient Interface CFP.....	5		

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

o EDITORIAL

Award...Outstanding Section - The AIAA Houston Section has won the Outstanding Section Award for the 1980-1981 year. Congratulations to all and especially to Norm Chaffee who was chairman during the time involved. Norm over the years has given dedicated professional service to the section.

Charles Wolfers, Vice-Chairman Technical, has protected our lead time in planning for a really outstanding Technical mini-symposium to be held April 20 in the Gilruth Center. You still have a few days to get him your abstract of 250 words or less.

Richard Underwood is putting together an exciting multi-projector slide show for our section's wrap-up of the AIAA 50th Anniversary Celebration to be held May 21 in the Olin E. Teague Visitor Center (Building 2). Project Mercury through Space Shuttle and the Manned Spacecraft Center evolution to the JSC facilities of today is included. Another great event to recognize one and all for years of professional commitment. Plan now to attend. Mark your calendar.

-Jack C. Heberlig
Chairman

o MINI-SYMPOSIUM...APRIL 20

At this writing, we are only days away from the abstract submittal deadline of March 1. Responses are beginning to trickle in with the hoped for avalanche to start soon. By now, you should have all seen our blue flyers advertising the call, as well as the official pink sheet JSC call for papers. Come on, authors!

Here are a few points of information for both authors and attendees:

a. The registration fee will be \$1.00 per person as in the past (zero inflation). This year, however, your AIAA section management has decided that no fee will be charged for authors, co-authors, presenters, or students. If you qualify for a "Freeby" be sure to identify your status to the registration desk.

b. The banquet dinner price this year will be \$7.50 for members and \$8.50 for non-members. Students will receive a \$2.00 discount. Everyone should take advantage of this fine end-of-day affair to unwind, enjoy some good ole AIAA socializing, and hear the inspiring message National AIAA President Joe Gavin is sure to deliver. Those who wish to attend the program only, may do so at no cost.

c. For any potential author who is still uncertain about the applicability of his or her subject matter, let me say again that the mini-symposium encompasses anything applicable to Aerospace Technology. We have stressed Shuttle Flight results as our theme due to its timeliness and broad interest, but in no way are authors constrained to that topic. In a broader sense, Shuttle Development is our theme, and you are in no way constrained to that either. (When submitting abstracts, please include your phone number and organizational affiliation.)

Just prior to the Banquet, after all technical sessions are scheduled to complete, we plan to have a plenary session of interest to all. Section Chairman, Jack Heberlig, will organize that event, the details of which will appear in a future newsletter.

Your Mini-Symposium arrangements and planning committees are hard at work preparing for what, with your enthusiastic support, should result in the most significant technical event of our 1981-82 AIAA fiscal year. Don't forget to reserve April 20 for your attendance and participation.

-C. V. Wolfers
VC-Technical

o SOLAR ECLIPSE TOUR

A solar eclipse tour has been planned for June 4 through June 20, 1983. A Houston-based expedition will be launched to observe next year's total eclipse of the sun on the Island of Java in Indonesia. Paul D. Maley, a member of the Houston section of the AIAA, Shuttle payload engineer, and a veteran organizer of 5 previous eclipse campaigns, announced that the 16-day trip is open to any and all interested persons who would like to observe/photograph this spectacular event and at the same time visit Taiwan, Singapore, Malaysia, Indonesia, Bali, Thailand and Hong Kong. An optional trip to the Peoples Republic of China is also available.

A limited number of seats is available with a preliminary cost estimate of \$2,980 per person (double occupancy) from the West Coast.

The sun will be totally blacked out by the moon's disc for over 5 minutes, making it a very long eclipse by astronomical standards permitting study of the inner and outer corona, near-sun comet searches, photography of prominences and other related endeavors.

Ground arrangements are being handled by Hanssen Tours of Houston and Clear Lake. Deposits of \$100 per person are being taken beginning February 1982. The last two such tours to Canada (1979) and Africa (1980) filled up rapidly so that early reservation is recommended. For further details contact Paul Maley at 483-5867 (day) or 488-6871 (night).

o NEW ASSOCIATE FELLOWS NAMED

Congratulations to the following members who have been upgraded to Associate Fellow Member AIAA:

Philip M. Hopkins, Lockheed
 T. L. Moser, NASA
 Charles V. Wolfers, MDTSCO
 Joseph P. Allen, NASA
 Allan E. Brandli, NASA
 Rodney G. Rose, NASA

o SECTION HEARS NASA COUNSEL HOSENBALL

The Houston section of AIAA was addressed by the NASA General Counsel S. Hosenball at the January 1982 dinner meeting, subject: Space Law. Following a short history of the development of the subject, Attorney Hosenball indicated that the earliest work on Space Law was that by Vladimir Mandl in 1932, "The Law of Outer Space, A Problem in Space Travel." However, it was not until the early fifties that lawyers began writing extensively about the legal problems which could be anticipated incident to space activity.

Illustrative of events which have given rise to the establishment of some foundation, and direction, to be anticipated in the development of space law has been not only the fall of Cosmos 954 into Canada, but the reentry of Skylab. Both of these events were well publicized and served to generate a great deal of public interest in space law, both domestic and international. The Outer Space Treaty of 1967 particularly Article VII, which is implemented by the Liability Convention, was invoked by Canada following the reentry of Cosmos 954. The Soviets

first refused to pay on the claim, on the basis that (1) they offered assistance that was refused, and (2) the Liability Convention did not include damages arising out of the cost for search for artifacts, etc. However, they settled for about half of the amount claimed. Claims filed concerning the reentry of Skylab were denied, being scarcely consequential.

Actually, Hosenball stated, there is no competent court for handling Space problems. A suggestion concerning the World Court was answered by the fact that the Soviets have in the past refused to submit to that institution.

Legal problems have been separated into two groups: Those susceptible of priority treatment, and those that were not. The priority group include:

- a. The question of freedom of outer space for exploration and use.
- b. Liability for injury or damage caused by Space Vehicles.
- c. Allocation of radio frequencies.
- d. Avoidance of interference among space vehicles and aircraft.
- e. Identification and registration of space vehicles and identification of launchings.

Legal problems identified in the non-priority group were:

- a. The question of determining where outer space begins.
- b. Protection of public health and safety; safeguards against contamination of or from outer space.
- c. Questions relating to exploration of Celestial Bodies.
- d. Avoidance of interference among space vehicles.

The subject of space law excites considerable interest; it is a new field, one in which there is little precedence to direct consideration of questions as they arise. Consequently, there seems to be a great deal of general information available for assimilation and hours can be devoted to the material.

o HOUSTON SECTION - FIRSEST WITH THE MOSTEST

I am pleased to report to the Houston Section membership that the Houston Section has won the Best Section Award for large sections (greater than 500 members) for the 1980-81 year. It is the second year in a row that Houston has been judged the best! We did have an outstanding year. And it was truly a group achievement due to the excellent work of the Executive Council, the many committee chairpersons, the fine support of the membership, and the outstanding supportive professional atmosphere provided by the Johnson Space Center and the contractor community. We will accept the award in Baltimore next May with pride and with gratitude to all of you.

-Norman Chaffee
Chairman, 1980-81

SAILING, SAILING....

THE TWELFTH ANNUAL ANCIENT INTERFACE SYMPOSIUM

The Ancient Interface is the oldest on-going technical symposium on sailing in the United States. It brings together yachtsmen, engineers, and scientists for a full day's presentation of papers on the science and technology of sailing.

The ancient interface is sponsored annually by AIAA, and the Society of Naval Architects and Marine Engineers (SNAME). Additional sponsors this year include: Stanford University, Department of Aeronautics and Astronautics; University of California (Berkeley), Department of Naval Architecture and Offshore Engineering; the San Francisco Bay Yacht Racing Association; and the Oceanic Society.

Ancient Interface XII will be held at the Saint Francis Yacht Club in San Francisco on October 30, 1982.

Abstracts (about 500 words) are now invited for papers in the following suggested areas:

- o Advanced sailboats (monohulls, multihulls or hydrofoils)
- o Advanced sails and sail rigs
- o Racing and cruising technology
- o Commercial sailing vessels
- o Boatbuilding technology and materials
- o Yacht design and analysis

The deadline for abstracts is April 1, 1982. The deadline for completed papers will be July 1, 1982. Prospective authors are invited to send their abstracts directly to any one of the three chairmen listed below. Telephone calls to discuss a possible paper are welcome.

C. A. Marchaj - Chairman of Papers Committee
Shayer Road, Southampton SO1 5JZ, England

Alan Adler - Chairman for SNAME
Stanford University - Design Division, Stanford CA., 94305
(415) 493-5231 (evenings)

Lewis Peach - Chairman for AIAA
NASA Ames Research Center, MS 210-9, Moffett Field, CA., 94035
(415) 355-1723 (evenings)

SYSTEMS FOR THE EIGHTIES

Sponsors: IEEE Aerospace and Electronics System Society, IEEE Houston Section, and IEEE Galveston Section

Plan to submit an original paper for the IEEE Aerospace and Electronics System Society's 1982 National Telecommunications Conference for System Specialists (NTC'82). Disciplines to be represented include Telecommunications and Radar Systems. However, papers concerning other aspects of telecommunications will also be considered as space permits. All accepted technical papers will be published in the Conference Record.

Author's schedule:

Complete manuscript and abstract due.....May 15, 1982
 Camera-ready copy due.....August 1, 1982

Please send five typed double-spaced copies of manuscript and a one-page abstract with author's name, complete return address, and telephone number to:

Dr. P. M. Hopkins
 Lockheed-EMSCO
 Mail Code C-22
 1830 NASA Road 1
 Houston, Texas 77258

Page charges will be assessed if the camera-ready copy exceeds five pages.

We look forward to receiving your paper and seeing you in Galveston for NTC'82.

NEXT AAS CONFERENCE PLANNING MEETING - MARCH 10

The first full Conference Committee for the American Astronomical Society National Conference to be held in October is scheduled for March 10. Al Naumann, General Chairman, is to meet with the technical program committee this month (February). The objective will be to kick off key issues to include: Selection of conference themes, selection of an Exec. Chairman, general planning and organization, master schedule, etc.

It was indicated that AAS Hq will request AIAA concurrence to joint sponsorship.

The meeting will be the 29th Anniversary Conference for the ASS.

TSPE FEBRUARY MEETING TO HEAR WENDELL BEARD

Wendell Beard, P.E., owner of Wendell Beard Consulting Engineers, will discuss requirements for registration and the procedure involved at the National Engineers' week meeting on February 18. Joe Paul Jones, P.E., President of the 7500 member TSPE is to be the special guest of the meeting.

The seminar will be held in the Auditorium of Building 2, from noon to 1:00PM.

National Engineers' Week is sponsored by the National Society of Professional Engineers and was first observed in 1951. It is celebrated annually during the week of February 22, George Washington's birthday, in honor of the first President who was a noted military engineer and land surveyer. The theme for this year is "Engineers: Pioneering America's Revitalization."

SOCIETY OF WOMEN ENGINEERS TO HOLD SEMINAR

Women in engineering and science are invited to attend a Professional Development Seminar sponsored by the Houston Area Section of the Society of Women Engineers. This one-day seminar will be held Sunday, March 21, 1982, at the Houston Marriott Hotel at the Astrodome, located at 2100 S. Braeswood, beginning at 8:00 AM. The \$35.00 registration fee must be received by February 26, 1982. For registration forms and/or more information, contact Cyn Coleman at 965-7289 or Cherly Raggio at 521-7698.

AIAA HOUSTON SECTION NEW MEMBERS

Gus R. Babb
NASA

James L. Clement
McDonnell Douglas

Frank McGee Elam
NASA

William Foreman

Tom Glass

Lt. John M. Haskell

Thomas A. Jones
Ford Aerospace and Comm.

John R. Klein
Rockwell International

Dennis Lee Knutson

Frederick T. La Rochelle
Northrup Services

Thomas W. Laming
TRW

Carl Andrew Lauritzen

Bruce McCandless, II
NASA

Gara McFadyen
Northrup Services

Roger B. Michaud
Management & Technical Service

Steven O'Neill
Intermetrics, Inc.

Vince A. Patel
Lockheed

Timothy Edward Pelischek

Carl B. Peterson

John Mark Pipkin
Ford Aerospace and Comm'n

Robert F. Poirier
Boeing

Kenneth E. Richards, Jr.
Lockheed

Himankush Saha

David C. Schultz
NASA

Dellis D. Shanks
Northrup Services

Bryan Smith
Boeing

Carlos B. Valrand
IBM

Kent Westley
Lockheed

Morgan Williams

Joseph A. Yannie
Aerospace

NOTE: Information is lacking as indicated in the foregoing. Please send Company name, mail code and phone number to Marvin E. White, Section Secretary, Lockheed/C24, 333-6161.

o ANOTHER CRUNCHER

I haven't heard from anyone on last month's puzzle, so I will change pace on you on you a little bit for February. Try this one!

A noted Program Manager was shopping at a hardware store and asked the price of certain articles. The salesman replied, "One would cost 10 cents; eight would cost 10 cents; seventeen would cost 20 cents; one hundred and four costs 30 cents; seven hundred and fifty-six would also cost 30 cents; and one thousand and seventy-two would cost 40 cents." What was the Program Manager buying?

Send your replies to Norman Chaffee, NASA-JSC, Mail Code EP, Houston, Texas 77058.

First correct answer gets a free dinner at an upcoming AIAA meeting.



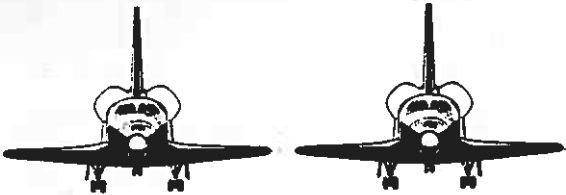
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HOUSTON SECTION

newsletter

UPCOMING AIAA HOUSTON SECTION MEETINGS

DATE

February 16	Space Shuttle Challenge of 1982 Panel Discussion	Dr. Glenn S. Lunney, Aaron Cohen, and George W. S. Abbey
April 20	Mini-Symposium	STS Flight Results Presentations
April 20	Planning Priorities and Politics	Joseph G. Gavin, Jr. AIAA President Dinner Speaker



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