

HORIZONS

Houston, Texas

April 1991

Chairman's Corner

Welcome, New Members

John M. Trebes
Chairman

I would like to take this opportunity to welcome, belatedly, the many new members that have joined the AIAA Houston Section within the past year. Elsewhere in this issue you will find a list of new members who joined during the period January - June 1990. Look for the July - December list next month.

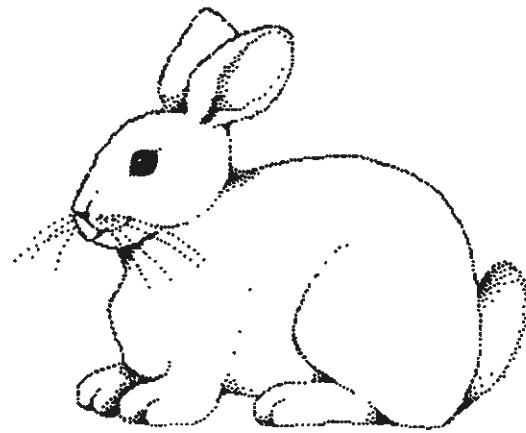
I encourage you all to participate in the activities of the Section. While you can get a lot of good out of AIAA's national programs, the primary benefits of membership derive from the goings-on at the local level. On the technical side, the professional interests of our members encompass virtually the entire field of space flight; whatever your interests may be, you can find someone to share them with, to learn from, or to exchange information and ideas. Call Alan Shinkman, our Vice-Chairman, Technical, at 333-7508 to find out more about our Technical Committees.

The operational side of the Section is just as diverse. There are plenty of things to do, and we've never had too many volunteers for the many jobs that need doing. Helping out isn't mandatory, but many hands make light work, and I guarantee that you won't get the same feeling of participation and satisfaction by just attending the programs. Call Charles Blacknall, Vice-Chairman, Operations, at 480-9102 for information on these activities.

Again, welcome to the Houston Section. You, and we, can look forward to a long and mutually beneficial association. ☺

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Happy
(belated)
Easter

Horizons is the monthly newsletter of the Houston Section of the American Institute of Aeronautics and Astronautics. It is created by members of the Houston Section and reproduced at the Houston offices of Lockheed Engineering and Sciences Company. Please address all communications to Vice-Chairman of Operations, Charles Blacknall, Eagle Engineering, telephone 283-6000.

Who's Who

The following men and women joined the AIAA Houston Section between January and June 1990. A hearty welcome to one and all.

Colleen de Bont
Mark C. Allman
Dr. John W. Alred
Orwin E. Ames
John G. Anderson
Dr. Phillip D. Anz-Meador
Leroy Attles
Robert B. Blaylock
Elizabeth Y. Calvillo
Charles H. Campbell
John J. Carlson
Elizabeth A. Chakachery
Edwin G. Cordes
Ed D. Cykowski
Kim V. Dehl
Christophe N. Delametter
Col. Michael D. Dennard
Gregg A. Edeen
Amy L. Ellison
Craig E. Fink
James D. Forehand
Dr. J. L. Foster
Dr. Larry J. Friesen

Mike Fukushima
Samuel A. Garcia
George Giacchino
Charles E. Gorwood
Robert D. Gresch
Veil Hanssen
Karen L. Hardgrave
Vernon C. Hill
Don J. Hull
Leonard N. Jackson
Joe N. Johnson, Jr.
David A. Kelley
Edward M. Kenny
Dennis B. Lewis
James M. Loman
Richard Long
Michael D. McCulloch
James R. McLaughlin
David S. Moyer
Paul F. Murphy
Raymond L. Nieder
Jay M. Ochterbeck
Gregory W. Ojakangas

Michael F. Olson
Oscar W. Olszewski
Michael L. Pelonero
James R. Pendergrass
William D. Powell
Dr. Taher M. Schobeiri
Jamal Seyed-Yagoobi
Ron S. Smith
Steven L. Smith
William R. Summa
David H. Swan
Dr. David L. Talent
Peter A. Taylor
Steven P. VanKewren
Keith D. Walyus
Mark P. Warren
Douglas S. Whitehead
James C. Williamson
Dr. Deyuan Wu
Patrick G. Yarbrough
Russell W. Zears

On The Horizon

Technical Symposium Planning

Alan Shinkman
Vice-Chairman, Technical

Planning for the 16th Annual Technical Symposium is still proceeding very well.

Our main speaker during the opening session in the morning will be astronaut John Young. Mr. Young commanded the first Shuttle mission ten years ago. He

will discuss his impressions of the first ten years of this phase of manned space flight.

Our main speaker during the afternoon plenary session will be Dr. Hans Mark, chancellor of the University of Texas System and a former deputy administrator of NASA. Dr. Mark will speak about his experiences with NASA and what he feels are the challenges of the 90's.

The date for the Symposium is May 16, 1991, and the location is the University of Houston-Clear Lake. The theme will be "The Challenges of the 90's."

For more information, contact Alan Shinkman at 333-7508.

The Members Speak Out

Lou Livingston
Editor

I was asked (again) at a recent dinner meeting whether TMSO was still active. After the usual answer — yes (it's there) and no (no one is speaking out) — the next question was: Why doesn't anyone have anything to say? To that question, he and I could only speculate: Do companies frown on such activity? Are potential correspondents reluctant to ask seemingly foolish questions, or to advance seemingly foolish ideas? Doesn't anyone care enough to take a few minutes to toss in his or her nickel's' worth?

What do you think (about this or any other AIAA related topic)? Drop me a line at 16546 Ivy Grove, Houston, TX 77058. If you prefer, drop your comments in the office mail to any of the Section officers and they'll get it to me. ☺

Around Region IV

Tombaugh at White Sands

According to the March newsletter of the White Sands Space Harbor Section, Dr. Clyde Tombaugh, an AIAA Fellow in that section, was the guest speaker at their March dinner meeting. The topic was his discovery of Pluto in 1930.

The newsletter notes that Dr. Tombaugh is the only living discoverer of a planet, and one of only three such individuals in history (with Herschel, who discovered Uranus in 1781, and Leverrier *et alii*, who discovered Neptune in 1846). The five naked-eye planets were known in ancient times and cannot be ascribed to an individual. ☺

Also Noted

Job Hunting Guide Available

Robert Bell, AIAA Administrator of Member Services and Programs, has announced a newly reprinted publication titled *Job Hunting: 9 Steps to Success*. You'll also see it advertised in *Aerospace America* and in the 1991/91 Publications Catalog. The guide is used as a text in AIAA's Employment Workshops, and reportedly has a good success record in helping AIAA members find employment. It is available to active AIAA members without charge upon written request. The price to non-members is \$9.95. Write to Member Services and Programs, AIAA, 370 L'Enfant Promenade, S.W., Washington, D.C. 20024-2518.

The announcement also notes other programs for unemployed members. For example, if you are unemployed when you receive your dues notice, just note (and sign) on the back that you are unemployed and change the dues amount to \$20 (\$25 beginning October 1, 1991).

Other programs in the works at AIAA National include a career guide developed by the Young Member Committee, a "positions sought" section in *Aerospace America*, expanded jobs bulletin boards at the more than 20 technical meetings each year, and a possible interactive computer job search system. These programs will be announced in *Aerospace America* as they come on line. ☺

Membership Roster Available

The AIAA 1991 Membership Roster is now available. It lists names, addresses and titles of the 36,000 professional AIAA members, indexed both alphabetically and by employer. The price is \$39.95 for AIAA members or \$79.95 for non-members. An order blank is included in this issue for your convenience. ☺

Technical Activities Calendar

Bill Best
CLCTS Representative

April

1 - Monday

NASA Area Macintosh Users (Group) "NAMU".
"Voice Navigator" Articulate Systems (Voice Recognition).
RSOC Cafeteria, 600 Gemini, 7:00 PM.
Information: Sharyn Best, 488-6522.

1 - Monday — 5 - Friday

SCS Simulation MultiConference.
New Orleans, Louisiana.
Information: Wade Webster, 244-4306.

3 - Wednesday

JSC Astronomy Seminar.
Open discussion.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

5 - Friday

LPI Seminar Series.
"Uses for Digital Array Scanning Interferometers in Terrestrial & Lunar Remote Sensing," William Smith, University of Washington.
LPI, 3303 NASA Rd. 1, Berkner Rm., 3:30 PM.
Information: Dr. Deborah Dominique, 483-1474.

9 - Tuesday

Clear Lake Council of Technical Societies.
Monthly meeting.
Lockheed Plaza 3, 1150 Gemini, 11:45 AM.
Information: Andy Lindberg, 483-1474.

LPI Seminar Series - brown bag.

"Nuclear Weapons and Ballistic Missiles in the Third World," Steve Clifford, LPI.
LPI, 3303 NASA Rd. 1, Berkner Rm., noon.
Information: Dr. Deborah Dominique.

10 - Wednesday

JSC Astronomy Seminar.
Open discussion.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

11 - Thursday

IEEE monthly meeting (re-scheduled).
"Update on the Hubble Telescope," Bert Bulkin, LSMC.
JSC Gilruth Center, 11:30/12:00 noon.
Information: Dr. Zafar Taqvi, 333-6544.

Armed Forces Communications and Electronics Association monthly luncheon (public is welcome).
Brig. Gen. Robert McIntosh, Vice-Commander, USAF Reserves.
Holiday Inn, 1300 NASA Rd. 1, 11:30/12:00/12:30.
Information: Veronica Mullins, 283-7342.

15 - Monday

STS-1 Tenth Anniversary Celebration.
JSC Gilruth Center, 4:30-8:30 PM. \$3.00.
Information: Ginger Gibson, 483-0596.

17 - Wednesday

Special meeting AIAA Education TC.
"Future of Photonic Computers," Dr. John Neff, University of Colorado.
JSC Gilruth Center, 11:30/12:00 noon. Reservations by noon Friday, April 12.
Information: Marsha Taylor, 483-0195.

18 - Thursday

Clear Lake SigAda business meeting.
Location TBD, 11:45 AM.
Information: Paul Kennedy, 282-6262.

LPI Seminar Series - brown bag.

"Chemistry of Gas-Grain Reactions in the Solar Nebulae," Bruce Segley, LPI.
LPI, 3303 NASA Rd. 1, Berkner Rm., 12:00 noon.
Information: Dr. Deborah Dominique.

April (cont.)**18 - Thursday (cont.)**

Texas Society for Professional Engineers.
"What the TSPE Can Do For You," Gerhardt Schulle,
Executive Director, TSPE.
King's Inn, 1301 NASA Rd. 1, 7:00 PM.
Information: J. L. Thompson, 485-2404.

23 - Tuesday

AIAA Computer & Software Systems TC.
"IDFE: In Support of Requirements Analysis," Mark
S. Smith, D. Appleton Company.
Franco's, 1101 NASA Rd. 1, 11:45 AM.
Information: Karen Lee-Taylor, 283-1961.

Bay Area PC Organization (BAPCO) monthly meet-
ing.

"The Magic of Modems," by Hayes.
League City Bank & Trust, 303 E. Main, 7:30 PM.
Information: Steve Metcalf, 554-2300.

24 - Wednesday

JSC Astronomy Seminar.
"Lunar Power Stations," Dr. Dave Criswell, Universi-
ty of Houston.
JSC, Bldg. 31, Rm. 129, noon to 1:00 PM.
Information: Al Jackson, 333-7679.

25 - Thursday

IEEE/ISA/CLCTS videoconference.
"Fuzzy Logic: Applications and Perspectives."
JSC Gilruth Center, 10:00 AM to 2:00 PM.
Members \$60, non-members \$70.
Information: Andy Lindberg, 483-1474.

Society for Computer Simulation (SCS) monthly
meeting.

"Neural Networks," Dr. Troy Henson, IBM.
Lockheed Plaza 3, 1150 Gemini, 11:45 to 12:45.
Information: Wade Webster, 244-4306.

AIAA Houston Section monthly dinner meeting.

"Spacelab Life Sciences-01," Dr. Carolyn Huntoon,
Director, Space & Life Sciences, JSC.
JSC Gilruth Center, 5:30/6:30/7:30.
Information: Shirley Brandt, 929-7183.

26 - Friday

LPI Seminar Series.
"A Model for the Climatic Behavior of Water on
Mars," Steve Clifford, LPI.
LPI, 3303 NASA Rd. 1, Berkner Rm., 3:30 PM.
Information: Dr. Deborah Dominique, 486-2167.

27 - Saturday — 28 - Sunday

Houston Vintage Radio Association Convention.
Saturday: Old radio viewing, 10:00 AM to 6:00 PM
(free); auction, 12:00 to 5:00 PM (\$5); Awards Ban-
quet, Paul Berlin, KQUE (\$15).
Sunday: Swap meet, 9:00 AM to 12:00 noon.
Astrodome Marriott, 2100 S. Braeswood.
Information: Richard Collins, 778-0271.

May**1 - Monday**

NASA Area Macintosh Users (Group) "NAMU."
Program to be announced.
RSOC Cafeteria, 600 Gemini, 7:00 PM.
Information: Sharyn Best, 488-6522.

16 - Thursday

AIAA 16th Annual Technical Symposium.
UH-CL, 8:00 AM to 5:00 PM.
Information: Alan Shinkman, 333-7508.

Please send additions, corrections and comments to:

Bill Best/R12A-130
Rockwell Shuttle Operations Co.
600 Gemini Ave.
Houston, TX 77058
Telephone 283-0261

Just Released! Membership Roster 1991

This handy publication lists the names, addresses and titles of all 36,000 professional AIAA members. Each member is indexed alphabetically as well as by their employers. Each organizational listing contains the members' name and title.

The Membership Roster 1991 is a veritable gold mine for those who are looking to make a career change, seeking research funding, looking for specialists in their field, etc.

The Membership Roster 1991 also describes the scope of AIAA Standing and Technical Committees, AIAA Publications, and the AIAA Technical Information Service. AIAA Membership Sections, Student Branches, Honors and Awards, Constitution and Bylaws, and staff organization are also listed.

Don't miss this opportunity to get your personal copy. Complete the order form below. Send the order form and payment today. Credit card payments may be faxed or telephoned.

Yes! Send me _____ copies of the Membership Roster 1991

(Order #: X6).

_____ \$39.95 AIAA Members

_____ \$79.95 Nonmembers

Ship to: 205

Name _____ Member # _____

Institution _____

Address _____

City _____ ST _____ Zip _____

____ My check is enclosed. (Add \$4.75 for shipping/handling. Add sales tax 7% CA and 6% DC residents. Prices subject to change without notice.)

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Card number _____ Exp _____

Signature _____

Mail to: American Institute of Aeronautics and Astronautics
c/o TASC0, 9 Jay Gould Ct, P.O. Box 753, Waldorf, MD 20604 FAX: 301/843-0159;
Telephone: 301/645-5643, Dept 415



**OUTSTANDING SECTION
AWARD**



- 1975-1976
- 1976-1977
- 1979-1980
- 1980-1981
- 1981-1982
- 1983-1984
- 1986-1987
- 1988-1989

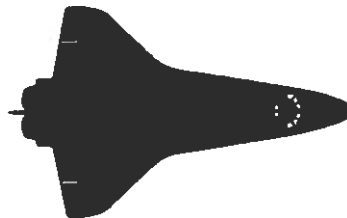
**SECTION SPECIAL EVENT
AWARD**



- 1971-1972
- 1972-1973
- 1979-1980
- 1981-1982
- 1983-1984
- 1985-1986
- 1988-1989



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JOHN M. TREBES - CHAIRMAN 1990-91

Thursday, April 25, 1991

SPACELAB LIFE SCIENCES-01

Dr. CAROLYN L. HUNTOON

**DIRECTOR
SPACE & LIFE SCIENCES
DIRECTORATE
JOHNSON SPACE CENTER**

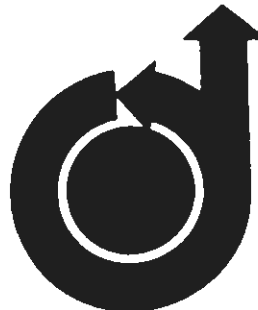


PRESENTER

Dr. Huntoon received her graduate degrees from the Baylor College of Medicine. Post-doctoral training in space physiology was pursued at JSC. She began her research into the human physiological aspects of space flight while still a graduate student, and continues even now to conceive and develop experiments which help explain the physiological phenomena induced by space flight. Widely published, Dr. Huntoon has authored over 200 scientific publications dealing with many aspects of human space flight physiology, specifically in the endocrine, fluid/electrolyte, and metabolic areas. She has been recognized within NASA for her work as a scientist and manager by being awarded the scientific achievement medal, as well as the exceptional service and outstanding leadership medals.

Guest Host

**Dr. Robert F. Weber
Director, Houston Operations
Grumman Corporation**



DINNER MEETING

**SOCIAL: 5:30
DINNER: 6:30
PROGRAM: 7:30**

MENU: CHICKEN CACCIATORE

MEMBERS & SPOUSES	\$8.00
NONMEMBERS	\$9.00
STUDENTS/YOUNG MEMBERS	\$7.00

**AIAA HOUSTON SECTION MEETINGS
ARE HELD AT THE JOHNSON SPACE CENTER
ROBERT R. GILRUTH RECREATION CENTER**

FRANKIE	SANDY	ARDELL	CARROLL	SARAH
333-6064	845-0735	283-4214	283-6000	282-3160
LOCKHEED	COLLEGE STATION	McDONNELL DOUGLAS	EAGLE	BENDIX

**NOTE: THE DINNER RESERVATION DEADLINE IS MONDAY, APRIL 22, AT 12:00 NOON.
ANY CANCELLATIONS ARE REQUIRED PRIOR TO DEADLINE. NO-SHOWS WILL BE BILLED.
ALL ARE WELCOME.**

DINNER RESERVATIONS ARE NOT REQUIRED FOR ATTENDING THE PROGRAM ONLY.

EDUCATION COMMITTEE
OF
AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS
HOUSTON SECTION
PRESENTS

**Special Luncheon
MEETING**

**FUTURE
OF
PHOTONICS
COMPUTER**

Wednesday April 17, 1991

Dr. John A. Neff
Optoelectronic Computing Systems
Center
University of Colorado

PRESENTOR

Dr. John Neff is the newly appointed Senior Research Associate at the Optoelectronic Computing Center of University of Colorado. Earlier he was Manager, Optical Computing at E.I. Dupont DeNemour; Program Manager at DARPA; Program Manager at Air Force Office of Scientific Research, and Bio-Control Engineer at Aerospace Medical Research Laboratory for a total of 22 years. He is a Fellow of Optical Society of America, and a Fellow and Past Governor of Society of Photo-optical Instrumentation Engineers.

Dr. Neff has a Ph.D. in EE from Ohio State University.

**Gilruth Center
NASA/JSC**

11:30 AM-Noon LUNCH
Noon- PROGRAM

COST:
AIAA Members
& Non-Membrs \$ 7.00
Young Members \$ 6.00

RESERVATIONS: MARCIA TAYLOR
483-0195

Reservation deadline is Friday April 12th at 12:00 noon. All are welcome - Lunch cancellations are required prior to deadline. Please note that *all reservations not cancelled before the deadline will still be billed.* You need not buy lunch to attend the presentation.

For additional details of the program please contact:
Dr. Richard Juday at 483-1486 or
Dr. Zafar Taqvi at 333-6544