

HORIZONS

Houston, Texas

November 1991

Chairman's Corner

Dr. Zafar Taqvi
Chairman

Membership is always pleased when served rightly. AIAA section membership does not demand much except the basic needs and it is up to the Executive Board to engage in innovative thinking to serve the membership above and beyond their desires. And that is precisely what we are doing at the Houston Section.

You have seen our goals for the year in the last issue of *Horizons*. We are proceeding smoothly along our designated course. What we heard from our attendees at the last dinner meeting made me very happy. We want you to keep your expectations high.

You will see some special programs in forthcoming months. Our monthly meeting for November will have Dr. Michael Griffin from NASA Headquarters as the featured speaker. He will talk on New Initiatives Issues (remember the meeting is on Wednesday, November 13, not Thursday). The International Activities Committee has a special visit by a Chinese delegation scheduled for November 8.

A special seminar on "Special Activities in Engineering Programs at Texas A&M," first in a series of several programs, will also be held in December (flyer elsewhere in this issue). Educational activities are taking off with full steam.

We want to emphasize recognition and awards for those who have supported the aerospace industry in general and AIAA in particular. Councillor Marv White is compiling a list of past and present contributors for recognition. Please contact Marv if you know of anyone who has contributed significantly to the AIAA cause.

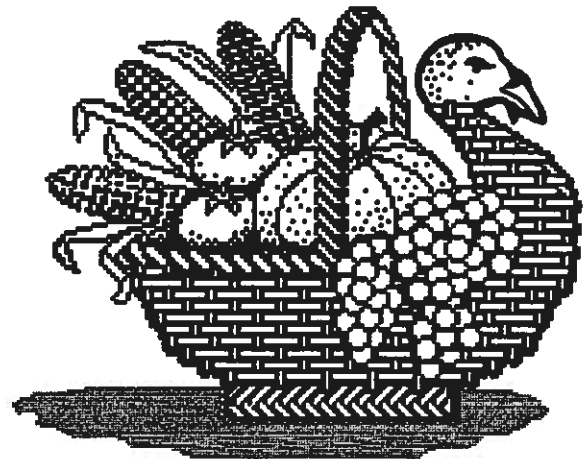
I have received several nomination forms from our section members for AIAA national technical

appointment. If you are interested, please contact me immediately. There is an information form at the back of this issue.

My heartiest congratulations to the 1992 Associate Fellow upgrades. This is the largest number of upgrades our section has ever had. ☺

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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 the Chairman, Dr. Zafar Taqvi, LESC/C80, telephone 333-6544, fax 333-7620.

Behind The Board

Steve Zobal
Chairman-Elect

This month I thought I would provide you with a little background on how your Houston Section fits into the AIAA National organization and how your Board interacts at the regional level. I believe it is important that all members have some knowledge of the system in order to communicate effectively his/her views upward to the regional and national levels. We will focus here on the regional aspects.

For the purpose of region and section activities, the United States is divided into six geographic regions. Our Houston Section (one of 65 sections) is in Region IV, together with North Texas (Dallas/Ft. Worth), Southwest Texas (San Antonio/Austin), Oklahoma, Albuquerque, Holloman/Alamogordo, and White Sands Space Harbor.

Each region has a Regional Advisory Committee (RAC) chaired by the Regional Director who, in addition to his/her regional duties, is a voting member of the Region and Section Activities Committee and the national Board of Directors.

The RACs are composed of several Deputy Directors and a representative from each section in the Region. The Deputy Directors are appointed by the Director and assist him/her in coordinating section activities within the region. Houston Section representatives on RAC IV include your Chairman, Dr. Zafar Taqvi; Deputy Director-Technical, Bret Wingert; and Deputy Director-Career Enhancement, Steve Zobal.

So there you are, and without an Org or Flowchart. If you have some inputs or issues you want to take forward, feel free to contact these folks or anyone on your Board. Better yet, volunteer for positions on the Regional or National committees. ●

Committee News

Human Support Seminars Planned

Dr. Michael Stanford
Co-Chairman, Human Support TC

The Human Support TC will hold at least three Lunch & Learn seminars this year. The first, "Update on Radiation Impacts for Manned Space Operations" by Michael Stanford will be presented in December (date TBD). Topics, speakers and dates for the others have not been set.

A Human Support Conference is also projected for late January 1992. Planning is progressing but no details are available at this time. ●

Thermophysics Lunch & Learn Held

Joe Chambliss
Chairman, Thermophysics TC

The Thermophysics TC held a Lunch & Learn meeting on September 25. Committee Chairman Joe Chambliss initiated the presentation on Space Station Freedom (SSF) Active Thermal Control Systems (ATCSs) with an overview of the techno-political environment and the TCS decisions that have been made since the PDR in the summer of 1990. He then introduced the featured speaker, Richard Parrish, SSF TCS System Integration Manager.

Mr. Parrish made an informative presentation of the restructured SSF ATCS design including overviews of the central ATCS, the internal ATCS systems and the photovoltaic ATCS. Major changes were the change to deployable flow-through radiators (from connected but independent heat pipe radiators), three ammonia buses instead of four, and a pre-integrated design of both the ATCS components

and the radiators. Internal thermal control now uses separate low and moderate temperature water coolant loops with crossovers for contingencies and heat exchanger bypasses for temperature control. He concluded with a summary of the test programs and schedule for ATCS development.

From a poll of the Thermophysics TC, several future meeting topics were selected. In order of preference, the topics and potential speakers are:

1. Advanced Programs TCS - Rankin
2. Thermal Synthesizer System Program Overview - Rickman
3. Aeroassist Thermal Design
4. National Aerospace Plane TCS - MD-STL
5. CTSD Thermovac Chamber Overview and Capabilities - Blalock
6. Nuclear Reactor Engineering - HL&P-Dick Frazar
7. Arcjet Facility Overview - NASA
8. Passive TCS Techniques and Analysis - Bob Vogt
9. EVA RNTS - Mike Lawson

This information combined with speaker availability and timeliness of the topic will be used in planning future Lunch & Learn meetings.

Management Lunch & Learn Set

The Management TC has scheduled a Lunch & Learn meeting for Wednesday, November 6, at the JSC Bldg. 3 cafeteria from 11:30 to 12:30. Dr. M. S. Rajaram of the Cullen College of Engineering, University of Houston, will discuss "The Deming-Taguchi Approach to Total Quality Management."

In this approach, pioneered by Edward Deming, one controls the quality of the process variability itself, while traditional methods depend upon inspection and acceptance sampling. The concept has gained wide acceptance, especially in Japan. As a result of

Deming's ideas and Taguchi's techniques for implementing them, often no inspection is needed.

For information, call Dr. John Hunsucker at 749-2545 or Suzan Voss at 483-4841.

Public Policy Program Planned

Steve Clifford
Public Policy Chairman

At the national level, the Institute Development Committee (IDC) has identified education and the long-term supply of engineering talent as a priority issue for the AIAA. In light of this fact and the growing concern over the quality of math and science education in the United States, the Houston Section Public Policy Committee is currently working on organizing a major program on this topic for early next year.

Our objective is to bring together students, teachers, administrators and other concerned individuals to discuss ways to promote science and math education throughout the country, particularly among students in inner-city schools (those most at risk of dropping out). The format of the program may include both a luncheon panel discussion and a high-profile evening speaker. Some of the individuals we may approach include Whoopi Goldberg, Steven Spielberg, George Lucas and Gene Roddenberry. The rationale behind this is that in addition to their obvious name recognition, each of these people has demonstrated both an interest in space and an ability to communicate effectively with young people. We believe that their unique perspectives may provide innovative suggestions on how to keep the spark of curiosity alive for inner-city kids.

In recognition of the ambitious nature of this event, we are investigating the possibility of co-sponsorship with other local professional and community organizations, including Partners in Space and the Bay Area League of Women Voters.

Who's Who

Membership Up

Jim Visentine
Membership Chairman

I am pleased to report that our AIAA membership has increased last month by 27 new members. Our membership now stands at 1,257 professional engineers, managers and scientists with AIAA grade distribution as follows:

- Members 904
- Senior Members 198
- Associate Fellows 144
- Fellows 11

On behalf of our Membership Committee and the Executive Council, we offer our assistance to the following new members and extend to each of them a warm "welcome aboard!"

- | | |
|----------------------|------------------|
| Ruth Appleby | Dave Oakeson |
| Ted Bartkowicz | Dwayne Orr |
| Jerry Borrer | Anne Platoff |
| Michael Collins, Jr. | Susie Pollard |
| Robbie Gest | Christophe Popp |
| William Hammock | Deane Schwartz |
| Je-Chin Han | Ted Smith |
| Vicki Johnson | Tom Smith |
| Linda Kirbie | Schaeffer Somers |
| Julie Kramer | Phillip Tung |
| John Lawrence, Jr. | Jim Wade |
| Pat Marek | Dave Weaver |
| Mark McDonald | Barry Witschen |
| David Meadows | |

44 (!) Associate Fellows Announced

AIAA National has advised the Houston Section that 44 of our members have been approved for upgrade to Associate Fellow this year. This record-breaking number of upgrades resulted from (1) an active upgrade campaign within the Houston Section and (2) a new system which sets upgrade quotas by region rather than section. Associate Fellow upgrades are limited to one per year per 150 members, which at our current size allowed the Houston Section eight upgrades per year under the old procedure. The other Region IV sections submitted relatively few applications, and Houston reaped the benefit.

Our heartiest congratulations to our new Associate Fellows (listed below) for this well-deserved recognition of their accomplishments.

- | | |
|------------------------|------------------------|
| James H. Booker | Roy W. Meinke |
| Jeri H. Brown | Charles M. Miller |
| Dr. Palmer B. Chiu | Dr. Gerald L. Morrison |
| Dr. George Ciangary | Frances E. Mount |
| C. L. Conley | Tri X. Nguyen |
| W. L. Davidson | Richard P. Parten |
| Thomas E. Diegelman | Gloria B. Reilly |
| R. H. Dietz | William C. Rochelle |
| Arthur M. Dula | Paul O. Romere |
| Stephen J. Elsner | Dr. Thomas V. Sanzone |
| Wyendell B. Evans | Robert T. Savely |
| Karen D. Frank | Henry E. Schneider |
| Dr. Frank Garcia, Jr. | Michael J. See |
| Richard L. Griffin | Olav Smistad |
| Ray Hartenstein | Dr. Michael Stanford |
| Dr. Stephen J. Hoffman | Jenny M. Stein |
| William R. Holmberg | Dennis A. Stone |
| Karen J. Johnson | Pierre J. Thuot |
| Charles R. Justiz | Dr. Srinivas R. Vadali |
| Barbara G. Kolkorst | Dr. Tong Wang |
| Dr. Chien-Peng Li | Donald B. Wechsler |
| Clay E. McCullough | Prof. Larry C. Witte |



Member Honored

Dr. Kamlesh Lulla, Chairman of the Houston Section's In-Space Imaging and Space Observations TC, was awarded the title of University Adjunct Professor by the Provost and Senior Vice-President of the University of Houston-Clear Lake. The award was, according to the citation, "in recognition of the outstanding contributions to the University of Houston-Clear Lake." ●

Senior Members Wanted

Dr. Zafar Taqvi
Chairman

A number of our members now have at least eight years' experience in the aerospace profession and thus qualify for upgrade to Senior Member. For those of you who do qualify, please complete and detach the Senior Member upgrade form attached to this newsletter and send it to the following address:

American Institute of Aeronautics and
Astronautics
AIAA Senior Member Upgrade Committee
370 L'Enfant Promenade, SW
Washington, DC 20024-2518

Your upgrade to AIAA Senior Member will not result in an increase in your membership dues. Instead, it will acknowledge your professional experience and the contributions you have made, and will continue to make, to the aerospace profession.

To make it easier for you to mail this application in as soon as possible, Mr. Jim Visentine, our AIAA Membership Chairman, and I have included our names as your AIAA professional references. In about six to eight weeks, you should receive from the Institute an attractive Senior Member Certificate, which you can display in your office, and silver lapel pin which you can wear with pride to our AIAA meetings. ●

The Members Speak Out

Lou Livingston
Editor

[Opinions expressed in this column are those of the correspondents and the columnist. They do not necessarily represent the position of the AIAA or of the Houston Section.]

I have read several letters in the *Horizons* Speak Out column about the AIAA Houston Section nominations process. They are interesting and express some different ideas, but all of them miss the mark.

In the local section's By-Laws, the schedule for the nomination process is clearly spelled out. The make-up of the nominating committee is stated and the procedure for nominations from the membership are clearly stated.

The By-Laws state the following:

1. Appoint a Nominating Committee - by March 1. Nominating Committee consists of at least five members, two of which are Council members. The committee is led by the Chairman-Elect.
2. Appoint Teller Committee - by March 1. The Teller Committee consists of three members.
3. Select nominees by March 15.
4. The Secretary will send the list of nominees to the membership by March 25. Also, by March 25 notify the membership that nominee petitions from the membership will be accepted until April 10. Petitions must be signed by at least a quorum of the membership. A quorum is stated in the By-Laws.
5. The Secretary will send ballots to the membership by April 15. Also, notify membership of closing date for vote count (allow at least 20 days).
6. The Secretary will give all ballots (unopened) to the Teller Committee Chairman by five days after the closing date.
7. The Teller Committee will complete the count and notify the Chairman of the Section by May 15.
8. The ballots should include a short biography of the nominee.

(continued on page 6)

The Members Speak Out **(cont.)**

I believe that in the By-Laws the dates are determined by so many days before some other final election event date; i.e., the Honors and Awards Banquet or the *Horizons* publication date preceding the Honors and Awards Banquet.

The point is that the nomination process and associated guidelines are listed in the By-Laws and they do account for nominations by the membership. I found that due to mailing delays, the schedule had to be stretched out for several weeks.

I am not sure what the By-Laws say about the number of nominees proposed by the Nominating Committee, but in the past we have generally (not always) had two names for each officer position, and about 50% more Council nominees than positions available.

I think our main problem is that people do not pass on information from one officer to the next, nor does the new set of officers read what is passed on. The experience is there if we just use it.

Carl R. Huss

Good point. The Bylaws do indeed spell out the procedures. My copy is several years old, and isn't dated, but I can't recall any recent changes. It specifies the following, in addition to the items you enumerate:

There must be at least one nominee for each office and at least one for each Council vacancy.

The Secretary must send the list of nominees to the membership within ten days of receipt from the Nominating Committee (which would be March 25 at the latest).

Nominations by petition shall be received by the Secretary for fifteen days after the date on which the notification was mailed to the members. This closing date for petition nominations shall be stated in the notification.

A membership quorum is defined as five percent of the voting membership (sixty-odd at the Houston Section's current size).

I find nothing in the Bylaws suggesting biographies of the candidates, although common sense alone would dictate their inclusion.

We have had comments on this subject from a variety of viewpoints (see *Horizons* for June, September and October). Clearly, some members didn't like the way the election process was implemented last year. Others note that the procedure was conducted according to the rules. To sum up (without trying to cut off further discussion of this question), it appears that the real issue is whether the nomination/election requirements in the Bylaws should be amended.

Amendments to the Bylaws may be proposed by the Council or by petition of five percent of the voting membership (this presumably means members eligible to vote). Proposed amendments shall be mailed to all Section members with a ballot, the ballots to be returned to the Secretary within twenty-five days. A majority of the votes cast, as well as approval of the AIAA Board of Directors, is required for adoption.

As usual, send your comments, questions, gripes, etc. either directly to me at 16546 Ivy Grove, Houston, TX 77058 or to Dr. Zafar Taqvi, LESC/C80, fax 333-7620.

New Wallet Cards

Toward the back of this month's issue, you will find a wallet reference card with the names, addresses and phone numbers of Houston Section officers, councillors and committee chairs. This version includes a few updates from the edition distributed at the September and October dinner meetings; even if you picked one up at the meeting, you still need the enclosed card.

If you want it to fit in your wallet, some assembly is required. Instructions are included.

Events

Dr. George Nield
E&PD Committee

Under the auspices of the Education and Professional Development Committee, the Houston Section is starting a new activity this year. On the third Wednesday of every month, there will be a presentation of one or more videotapes that are of interest to the aerospace community. The presentation will be held at the Johnson Space Center, Bldg. 1, Room 820, starting at 4:15 PM. Most of the films last 20-30 minutes. Come on by on your way home from work and enjoy some classic cinema!

Our next showing will be November 20 and will feature President Kennedy's speech at Rice University on September 12, 1962, that first challenged the country to send astronauts to the moon. Among the familiar quotes from that speech is "We choose to go to the moon in this decade, and do the other things, not because they are easy, but because they are hard."

The schedule for the remainder of the year is shown below:

- November 20 - President Kennedy's "We choose to go to the moon in this decade" speech
- December 18 - "Space Flight: The Application of Orbital Mechanics"
- January 22 - "America's Wings"
- February 19 - "SMS Tour"
- March 18 - "Preparation and Packaging of Food for Space Flight"
- April 22 - "Research Project X-15"
- May 20 - "Shuttle Flow at KSC"

If you have any questions, please call George Nield at 483-1364.

Dinner and Special Meeting Schedule

Here are the Houston Section meetings scheduled for the remainder of the 1991-92 year:

<u>Date</u>	<u>Program</u>	<u>Horizons Inputs Due</u>
Nov. 13, 1991	Dinner - Dr. Michael Griffin	Oct. 11, 1991
Dec. 12, 1991	Dinner - Director's Reception	Nov. 8, 1991
Jan. 23, 1992	Dinner - Col. J. Purka (tentative)	Dec. 20, 1991
Feb. 13, 1992	Dinner - Houston Section 30th Anniversary	Jan. 10, 1992
Feb. 27, 1992	International Space Year	—
Mar. 11, 1992	Dinner - TBD	Feb. 6, 1992
Mar. 14, 1992	Workshop on Automation & Robotics (WAR)	—
Apr. 9, 1992	Dinner - International Space Year	Mar. 6, 1992
May 20, 1992	Annual Technical Symposium	Apr. 16, 1992
Jun. 4, 1992	Dinner - Honors and Awards	May 1, 1992

Technical Activities Calendar

Bill Best
CLCTS Coordinator

October

30 - Wednesday

IEEE videoconference.

"Software Testing and Reliability."

JSC Gilruth Center, 11:00 AM - 2:00 PM.

Introductory tutorial, 9:30 - 10:30 AM.

Registration: IEEE members, \$50; members of CLCTS organizations, \$70; non-affiliated, \$80; students, \$15.

Information: Andy Lindberg, 483-1474.

7 - Thursday

IEEE luncheon meeting.

"Rules of the Game - One Man's View of a Technological and Industrial Erosion in the U.S.," Col. Will Stackhouse, USAF retired.

JSC Gilruth Center, 11:30/12:00.

Reservations: Marcia Taylor, 483-0195, by 11:00 AM November 4.

Clear Lake SigAda Executive Council meeting.

Tindy's, 18307 Egret Bay Blvd., 11:45 AM.

Information: Paul Kennedy, 282-6262.

November

4 - Monday

NASA Area Macintosh Users (Group) "NAMU".

"Works" demo by Claris.

RSOC Cafeteria, 600 Gemini, 7:00 PM.

Information: 488-2262.

5 - Tuesday

American Society for Quality Control (ASQC).

Program TBD.

American Host Motel, 2020 NASA Rd. 1,

5:00/6:00/7:00.

Information: Hank Williams, 338-2676.

6 - Wednesday

JSC Astronomy Seminar.

Open discussion.

JSC, Bldg. 31, Rm 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

Management TC Lunch & Learn.

"The Deming-Taguchi Approach to Total Quality Management," Dr. M. S. Rajaram, University of Houston.

JSC Bldg. 3 Cafeteria, 11:30 AM - 12:30 PM.

Information: Dr. John Hunsucker, 749-2545.

8 - Friday

AIAA International Activities Committee event.

"Recent Advances in Quality Management and Standards in the Aerospace Industry in China," Zhang ZengMao, Deputy Director, Quality Assurance Bureau, Ministry of Aerospace Industry, PRC.

Lockheed Plaza 4, 11:00 to 12:00 noon.

Information: Jim McLane, 488-0312.

12 - Tuesday

Sasakawa International Center for Space Architecture.

"First International Design for Extreme Environments Assembly (IDEEA One)," College of Architecture, U of H.

Information: 749-1181.

13 - Wednesday

AIAA dinner meeting.

"New Initiatives," Dr. Michael Griffin, Associate Administrator for Exploration, NASA Headquarters. JSC Gilruth Center, 5:30/6:30/7:30.

Information: Dr. Sarwar Naqvi, 282,2767.

AIAA Education Committee event.

"More About Mars," Dr. Nadine Barlow.

JSC Gilruth Center, 10:15/10:30 AM.

Reservations by noon, Nov. 12: Frankie, 333-6064.

13 - Wednesday (cont.)

JSC Astronomy Seminar.

"Impact Craters on Venus," Dr. Virgil Sharpton, LPI.

JSC, Bldg. 31, Rm 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

20 - Wednesday

AIAA In-Space Imaging TC Lunch & Learn.

"Cameras in Space," Marsha Ivins, astronaut.

JSC Gilruth Center, 11:30 AM - 12:30 PM.

Information: Dr. Kamlesh Lulla, 483-5759.

JSC Astronomy Seminar.

"Photometry of Icy Satellites," Dr. Deborah Dominique, LPI.

JSC, Bldg. 31, Rm 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

Houston Space Business Roundtable monthly luncheon.

"Report on Aerospace Plane," speaker TBD.

Doubletree Hotel, 1 Allen Center, 400 Dallas, 11:30/12:00 noon.

Information: Beth Land, 480-0014.

21 - Thursday

AMIGA User's Group meeting.

Micro Search, 2402 Bay Area Blvd., 7:00 PM.

Information: Carroll Moore, 483-0259.

26 - Tuesday

Bay Area PC Organization (BAPCO) monthly meeting.

Program TBD.

League City Bank & Trust, 303 E. Main, 7:30 PM.

Information: Steve Medcalf, 554-2300.

27 - Wednesday

JSC Astronomy Seminar.

Open discussion.

JSC, Bldg. 31, Rm 129, noon to 1:00 PM.

Information: Al Jackson, 333-7679.

December**4 - Wednesday**

AIAA/IEEE joint seminar.

"Space Activities in Engineering Programs at Texas A&M."

JSC Gilruth Center, 10:30 AM - 12:30 PM.

Information: Dr. Zafar Taqvi, 333-6544.

11 - Wednesday

IEEE videoconference.

"Optical Digital Computing."

JSC Gilruth Center, 11:00 AM - 2:00 PM.

Introductory tutorial, 9:30 - 10:30 AM.

Registration: IEEE members, \$50; members of CLCTS organizations, \$70; non-affiliated, \$80; students, \$15.

Information: Andy Lindberg, 483-1474.

Please send additions, corrections and comments to:

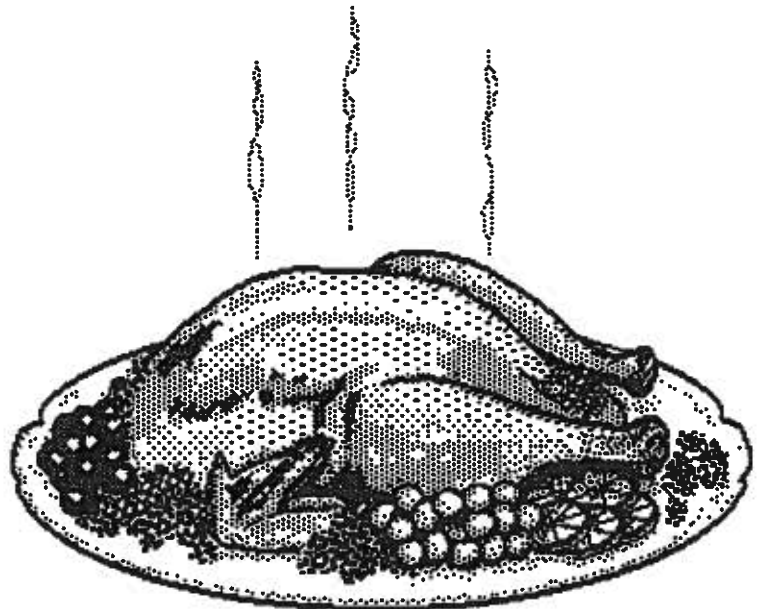
Bill Best/R12A

Rockwell Shuttle Operations Company

600 Gemini Ave.

Houston, TX 77058

Telephone 283-0261





Houston Section Officers 1991-1992

COUNCILLORS:

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André Sylvester	JSC/ER51	483-1537	483-5810
John Trebes	JSC/SD5	483-7215	483-6227
Marv White	LESC/C27	333-6161	

SPECIAL COMMITTEES:

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International Space Year			
André Sylvester	JSC/ER51	483-1537	483-5810
Scholarship			
Steve Zobel	MDSSC/B115	283-4246	
Section 30th Anniversary			
Walter Lueke	JSC/ES361	483-5939	
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EPD - Dr. George Nield	JSC/TM2	483-1364	483-8986
SCW - Bob Savely	JSC/PT41	483-8105	483-5200

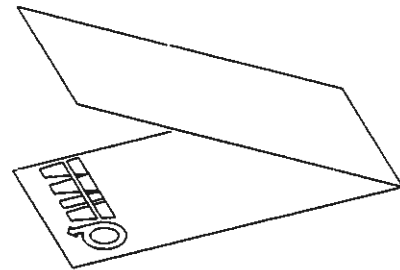
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Vice-Chairman, Operations			
Dr. Sarwar Naqvi	RSOC/R15A	282-2767	282-4505
Vice-Chairman, Technical			
Bill Best	RSOC/R12A-130	283-0261	283-0241
Secretary			
Dustin G. Hamm	JSC/DM33	483-8027	
Treasurer			
Chris Burnmeister	LESC/C87	333-6866	

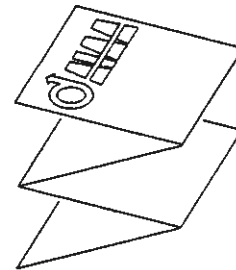
Wallet Reference Card

Assembly Instructions:

1. Cut along outside line. (Neatness counts.)
2. Fold in half with the AIAA logo on the inside.



3. Fold in quarters, putting the logo and officers (Chairman, etc.) on the outside.



4. Keep for reference.

Note: This card replaces those distributed at the September and October dinner meetings.

OPERATIONS COMMITTEES:

	<i>Address</i>	<i>Phone</i>	<i>Fax</i>
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Joey Pellarin	JSC/BY4/HEI	483-6706	483-2726
Human Support			
Dr. Hatice Cullingford	JSC/XE	283-8229	283-5818
In-Space Imaging & Observations			
Dr. Kamlesh Lulla	JSC/SN15	483-5159	483-2911
Life Science & Space Processing			
Bill Agosto	P.O.Box 590004 Houston, TX 77259	486-9343 (Kinko's)	480-7357
Management			
Dr. John Hunsucker	Univ. of Houston Houston, TX 77204-4812	749-2545	749-2316
Materials, Structures & Dynamics			
Don Probe	LESC/B14	333-6278	333-6278
Space Operations			
Sonya Sepahben	JSC/A13	283-5310	
Space Systems			
Michael Lable	Grumman	929-7320	929-7333
Thermal Physics			
Joseph Chambliss	LESC/C70	333-6713	333-7620

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS
370 L'Enfant Promenade, S.W.
Washington, DC 20024
(202) 646-7400

Ack.	Appr.
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FOR OFFICE USE ONLY

APPLICATION FOR SENIOR MEMBER GRADE

Dear AIAA Member:

AIAA Membership Grades are both a means of personal recognition and a reflection of the member's standing in the professional community. You are encouraged to review the criteria for Senior Member grade as stated below. There is no fee for application for advance in grade.

Members are encouraged to nominate other Members, as well to apply themselves for an advance in grade. It's essential that you complete both sides of the form. Processing of advance in grade applications includes a review of the applicant's qualifications by the Membership Committee; this procedure generally requires eight weeks. As soon as the review is completed you will be notified of the Committee's decision.

AIAA Membership Committee

Membership number _____

Section _____

Please Print or Type

Name _____ Position _____

Address (Business) (Home) _____ Phone _____
 please circle

City _____ State _____ Zip Code _____

Your Duties and Responsibilities _____

(Use additional sheets as necessary)

SENIOR MEMBERS

"Senior Members shall be persons who have demonstrated a successful professional practice in the arts, sciences, or technology of aeronautics or astronautics for the equivalent of at least eight (8) years."

NOTE: *Post baccalaureate* engineering or science degrees from an educational institution of acceptable standing shall be considered equivalent to professional practice for an equivalent number of years, up to a maximum of 4 years. Bylaw 3.2.1

College or University _____ Degree Received _____ Date _____

Advanced or Additional Degrees Received _____ College or University _____ Date _____

_____ College or University _____ Date _____

Other Technical Schools or Colleges or Special Educational Programs _____

Date _____ Applicant's or Nominator's Signature _____

APPLICATION FOR AIAA SENIOR MEMBER GRADE

PROFESSIONAL RECORD

DATES From To	EMPLOYER OR AFFILIATION	TITLE	DUTIES AND RESPONSIBILITIES

PROFESSIONAL REFERENCES

Senior Member Grade applicants shall furnish two (2) references, both of whom shall be Senior Member grade or higher. Bylaw 3.1.4

INSTRUCTIONS—Professional References—Please give the full name, title and address of each of your references. Be sure to identify in the appropriate areas (SM) Senior Member; (AF) Associate Fellow; (F) Fellow; (HF) Honorary Fellow, for each reference's grade of membership.

THE NOMINATOR MUST OBTAIN SIGNATURES FROM TWO REFERENCES WHO MUST BE OF SENIOR MEMBER GRADE OR HIGHER.

1. Name DR. S. Z. TAQVI Title Adv. Systems Engg. Specialist GRADE
SM AF F HF
 Address LESC, C-80, 2400 NASA RD I Phone (713) 333-6544
 City HOUSTON State Tx Zip Code 77058

The applicant is qualified as a Senior Member. Signature [Signature] Date 10/15/91

2. Name JAMES T. VISENTINE Title STS EXPERIMENTS MANAGER GRADE
SM AF F HF
 Address NASA JSC, ESS Phone (713) 483-8923
 City HOUSTON State TX Zip Code 77058

The applicant is qualified as a Senior Member. Signature [Signature] Date 10/15/91

Date Rec'd.

For Committee use only

	Appr.	Not Appr.*	Date Ret.
--	-------	------------	-----------

REVIEWER: _____

Comments: _____

Signature: _____

(*Returned for additional information — see comments)

Please return to:
 Senior Member Grade Committee
 AIAA, 370 L'Entant Promenade, S.W.
 Washington, DC 20024

Urgent Call for National TC Membership

The Houston Section wants to encourage section members to join national technical committees. There are 62 national TCs, each with 30 or more members selected nationally. Membership is for one year with an option for two additional years.

National TC members are required to attend two meetings per year and have endorsement from their employers for travel and support for committee business.

If you are interested in being considered for a national TC position, please fill out the preliminary form and return it to Dr. Zafar Taqvi (LESC/C80 or fax 333-7620) as soon as possible. 

1991-92 AIAA National Technical Committees

Aeroacoustics	Digital Avionics	Nuclear Thermal Propulsion
Aerodynamic Decelerator Systems	Economics	Plasmadynamics & Lasers
Aerodynamic Measurement Technology	Electric Propulsion	Propellants & Combustion
Aerospace Maintenance	Flight Simulation	Sensor Systems
Aerospace Power Systems	Flight Testing	Society & Aerospace Technology
Air Breathing Propulsion	Fluid Dynamics	Software Systems
Air Transportation Systems	General Aviation Systems	Solid Rockets
Aircraft Design	Ground Testing	Space Automation & Robotics
Aircraft Operations	Guidance, Navigation & Control	Space Operations & Support
Applied Aerodynamics	History	Space Processing
Artificial Intelligence	Interactive Computer Graphics	Space Sciences & Astronomy
Astrodynamics	Legal Aspects of Aeronautics & Astronautics	Space Systems
Atmospheric Environment	Life Sciences & Systems	Space Transportation
Atmospheric Flight Mechanics	Lighter-Than-Air	Structural Dynamics
Balloons	Liquid Propulsion	Structures
Command, Control, Communications & Intelligence	Management	Support Systems
Communications Systems	Marine Systems & Technology	Survivability
CAD/CAM	Materials	Systems Effectiveness & Safety
Computer Systems	Missile Systems	Technical Information
Design Engineering	Multidisciplinary Design	Terrestrial Energy Systems
	Optimization	Thermophysics
		V/STOL Aircraft Systems

Name: _____

Telephone: _____

Company/
Organization: _____

Position: _____

Age: _____

Technical Committee Interest: _____

Return to Dr. Zafar Taqvi, LESC/C80 or fax 333-7620 as soon as possible.

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

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



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Dr Larry J Friesen
League City TX 77573

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

HOUSTON SECTION P.O. BOX 57524 WEBSTER, TEXAS 77598

ZAFAR TAQVI - CHAIRMAN 1991-92

Wednesday, November 13, 1991

THE SPACE EXPLORATION INITIATIVE

Dr. MICHAEL D. GRIFFIN

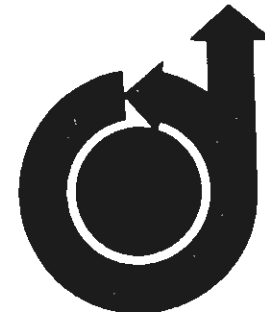
**ASSOCIATE ADMINISTRATOR
FOR EXPLORATION
NASA HEADQUARTERS**

PRESENTER

In his present position, Dr. Griffin is responsible for planning and execution of the exploration of the Moon and Mars. He was formerly Deputy for Technology of the SDI Organization, responsible for all technical research within the program. He had previously played a key role on conceiving and technically directing the SDIO "Delta series" of space missions, for which he received the Department of Defense Distinguished Public Service Medal and the AIAA Space Systems Award. Prior to joining SDIO, Dr. Griffin had participated in a variety of space missions while employed at APL, CSC, American Rocket Co. and JPL. Dr. Griffin was born in Aberdeen, Md., and received his B.A. in Physics from Johns Hopkins University. He holds four master's degrees and received his Ph.D. in Aerospace Engineering from the University of Maryland.

Guest Host

Rockwell Corporation



DINNER MEETING

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

MENU: TEXAS BARBEQUE

MEMBERS & SPOUSES \$9.00
NONMEMBERS \$10.00
STUDENTS/YOUNG MEMBERS \$8.00

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

FRANKIE 333-6064 LOCKHEED	SANDY 845-0735 COLLEGE STATION	ARDELL 283-4214 McDONNELL DOUGLAS	CARROLL 283-6000 EAGLE	SARAH 282-3160 BENDIX
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**NOTE: THE DINNER RESERVATION DEADLINE IS FRIDAY, NOVEMBER 8, 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.

