

March 1991

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# Newsletter

## March Dinner Meeting Annual Crab Feed

## THE HUBBLE SPACE TELESCOPE: Updates and Developments

**Date:** Friday, March 22, 1991  
**Time:** 6:00 p.m., Reception  
7:00 p.m., Dinner  
8:00 p.m., Program  
**Place:** Haas Clubhouse  
UC-Berkeley Campus  
**Cost:** Members: \$18  
Nonmembers: 20  
Students: 9  
**Entree:** Dungeness Crab  
**RSVP:** Teresa Peterson (415) 577-7121  
prior to noon March 21

Larry Mendoza is a Senior Scientific Programmer for Lockheed Missiles and Space Company (LMSC) in Sunnyvale, the prime contractor for overall design and integration of the Hubble space telescope, except for the mirror. Larry is currently a member of LMSC's flight software team for the telescope's pointing controls.

Larry will provide an overview of the Hubble program and current LMSC projects for improving the telescope's operation. Among the projects under way by Larry's team is the modification of pointing control software to compensate for flutter induced by thermal expansion in the solar panels powering the telescope. He will also discuss plans for repairing the infamous flawed mirror. Larry will be showing photographs taken recently by the Hubble.

The Hubble was launched aboard the space shuttle Discovery in April 1989. Its design life is 15 years.

### ASME San Mateo County Section

PC-Based Expert Systems  
Jeffrey Fong, P.E.  
National Institute of Standards and Technology

**Date:** Thursday, March 14, 1991  
**Place:** Foster City Holiday Inn  
**Tutorial:** 4-6 p.m. Students: \$10 Others: \$20  
**Dinner:** 7-9 p.m. Students: \$8 Others: \$18  
**RSVP:** M. Evizi (415) 349-2052  
J. Heberer (415) 366-7833

### CSPE Golden Gate Chapter

Engineering, The Liberal Education of the 21st Century  
Neil Norman, P.E.  
President, NSPE

**Date:** Wednesday, March 13, 1991  
**Time:** 6 p.m. Social; 7 p.m. Dinner  
**Place:** Shenanigans, Jack London Village, Oakland  
**Cost:** \$16 Members; \$18 Others (chicken or pot roast)  
**RSVP:** Susie Blair (415) 768-1234  
Christo Nitoff (415) 768-7250

### MESSAGE FROM THE CHAIR

My many experiences of this past month cause me to think of the future of engineering; the UC Berkeley Student Section's HPV team showing their fantastic Concept-Z racer at our January meeting; San Francisco State University students listening to the "pros" and then speaking of their own plans for their first HPV project at our February meeting; Peter Cannon's remarks on engineering, engineering education, and the present and future roles of women and minorities in the profession; Chang Lin Tien's discussion of the future of engineering education at the Engineers week Banquet, followed by scholarship presentations to accomplished high school seniors; conversations with San Francisco Section members who participated in DiscoverE; volunteering as a grader for the CSPE Diablo Chapter's MathCounts competition; reading the *Engineering Times* accounts of the NSPE Winter Meeting debate on the future of engineering and engineering education; reading newspaper accounts of engineers building the path into Kuwait and of Admiral Watkins's produce-a-lot-conserve-a-little energy policy.

In all I've seen and heard, there is a lot of hope as well as worry. The bottom line: if there is to be change for the better, we must make it happen. As engineers, engineering graduates in other professions, and engineering students, we, more than most, have the knowledge and the ability to make change happen. To inspire potential engineers, we must be the role models and the promoters of math, science and technical education. To create sound public policy based on technical and scientific reality, we must give our time to and stick our necks out in politics and public service. To overcome the economic and environmental challenges that confront us, we must strive to do our jobs as well as our abilities allow.

Engineers and scientists, more than others, created our modern society, its glories and its problems. Even our political system owes its life to engineers/scientists/philosophers: George Washington, Thomas Jefferson, and James Madison. Major challenges face us. If each of us does our part, we can meet them.

Eric E. Worrell, PE

### Items of Interest

#### Farbar Scholarship Presentations and 25/50 Year Member Recognitions

Following the annual UC-Berkeley crab feed March 22, the San Francisco section will present the annual Farbar Scholarships. The late Professor Leonard Farbar is affectionately remembered as an advisor to the UC-Berkeley ASME student section. The Farbar scholarships honor students who have made outstanding contributions both in academics and student organizations.

The following section members have reached the silver or the gold membership milestone; those in attendance at the March crab feed will be recognized:

**50 Years**  
Gordon S. Hayden, PE  
Arthur C. Oppenheimer  
Ira M. White, PE  
Stanley J. Whitlock, PE

**25 Years**  
Norman L. Bryan, PE  
Donald A. Dooley, PE  
Paul Eifel, PE  
Henry Hirsch, PE  
Hermann P. Hoehne  
George B. Humphreys, PE  
Alfred J. Jacobs, PE  
Carl H. Jordan, PE  
James M. Kirby  
Floyd S. Neff, PE  
Gordon L. Parkinson, PE  
Peter M. Phelps, PE  
Harry O. Reinsch  
G. Rodney Spicer  
Robert D. Stone  
Enrique O. Suarez del Sola  
Thomas E. Keith  
J. Pierre Wilson, PE

### April Meeting

The ASME San Francisco section's April dinner meeting will be held Thursday April 25th at the Lanzona Alexander restaurant, 65 Moraga Way, near the Orinda BART station. Steve Weir, Chairman, Metropolitan Transportation Commission, Contra Costa County, will speak on *Mobility Versus Money and Politics - The Future of Bay Area Transportation*. This is a joint meeting with the ASME Mount Diablo section, the CSPE Golden Gate chapter, and the CSPE Mount Diablo chapter.

### Mathcounts

Bob Heinen of the CSPE Mount Diablo chapter needs volunteers to assist at the MathCounts state competition to be held March 17.

415 - 945-0561 (H)  
934-8060 (W)

### Jobs Database

The ASME Los Angeles section has a job-seekers' database. Any wishing to be included should contact:

Edwin Lee, PE  
1180 S. Beverly Drive  
Los Angeles, CA 90035  
(213) 879-4477

### Technical Conference

The American Cogeneration Association and Arizona State University present *Cogeneration and Energy Conservation for the 90s*, March 18-19 in Mesa, Arizona. (602) 965-1740

### SFSU ASME Student Chapter HPV Project

This year for the first time the ASME San Francisco State University student chapter will participate in the Western Regional Human Powered Vehicle (HPV) Competition in April. SFSU will field a six-person team to compete in design, sprint time, and road racing categories. The SFSU HPV team would like to raise \$1250. Donations of building materials, services (machining, welding, etc.) and money are tax deductible. Donors giving \$250 may have their logo affixed to the vehicle. Make checks out to:

Division of Engineering  
San Francisco State University  
1600 Holloway Avenue  
San Francisco, Ca 94132

### 1991 ASME National Officer Selections

The future success of the Society depends on the effective utilization of the knowledge and abilities of its individual members. If the Society is to improve or refine its present program, it is essential that the members continue to select new officers who are capable, dedicated individuals with exceptional leadership qualities.

The 1991 National Nominating Committee (NNC), consisting of 33 voting members, urges that you submit your proposals now. As part of its selection process, the NNC will study each of the written proposals submitted on behalf of all proposed nominees for office and will interview the proposed nominees and their supporters.

The NNC will select 17 nominees for Vice Presidential positions for the 1992-94 term. There will be six Regional Vice President positions (odd-numbered); six Technical Vice President positions (Basic Engineering, Communications, Energy Conversion, Environment and Transportation, General Engineering, and International Gas Turbine Institute); two Codes and Standards Vice President positions (Safety Codes & Standards and Standardization); and three other Vice President positions (Engineering Education, Government Relations, and Member Interests & Development).

The NNC Will select four nominees for the member-at-large positions on the Board of Governors for the 1992-94 term. The NNC will also select a nominee for President for the 1992-94 term.

If, as a member of ASME, you are interested in submitting a proposal for any one of the above national elective offices, please contact Susan H. Skemp, Secretary, National Nominating Committee, at 407-796-8124. Instructions and proposal forms may be obtained from Gilda A. Melhaoui at ASME Headquarters at 212-705-7736. The deadline for submitting proposal forms is April 30, 1991.

The NNC will be meeting during the Summer Annual Meeting in Houston, Texas, June 9-13, to nominate these proposed nominees as ASME national officer. The names of the nominees will be on the officer election proxy which will be circulated to the membership in October 1991.

### ASME Santa Clara Valley Section March Dinner Meeting - Bridge Performance During the Loma Prieta Earthquake

**Speaker:** Abolhassan Astaneh  
The Earthquake Research Center  
UC-Berkeley  
**Date:** Thursday, March 21  
**Time:** 6 p.m. Social  
7 p.m. Dinner  
8 p.m. Program  
**Place:** Mariani's, 2500 El Camino Real  
**Cost:** Members: \$18  
Students: 10  
**RSVP:** Doug Snyder (408) 280-7620

### San Francisco Section Officers and Committee Chairpersons for 1990-91

Chairperson	Eric E. Worrell, PE	B(415)689-4579	H(415)689-4579	
Vice Chairperson	Dennis K. Lieu PhD	B(415) 642-4014		
Treasurer	Don Moseman	B(415) 973-9721	H(415)583-6815	
Secretary	Robert B. Raos, PE	B(415) 357-4610x2576	H(415) 531-8652	Fax(415) 577-7283
Member-at-Large	Kevin J. Yurica, PE	B(707) 648-5712	H(415) 528-4238	Fax(707) 648-5750

### COMMITTEE CHAIRPERSONS

Program	Richard J. Myhre, PE	B(415) 444-8707	H(415)453-9872	Fax(415) 444-2072
Membership Dvmt	Norman Aiello	B(415) 357-4610x2453	H(415) 430-0780	Fax(415) 577-7283
Member Interests	Alok Kumar, PE	B(415) 557-3312	H(415) 589-7382	
Government Relations	Willard A. Nott, PE	B(408) 743-2350	H(415) 881-5035	Fax(408) 742-2461 (Call)
College Relations	Nance C. Munro, PE	B(415) 973-2695	H(415) 536-2541	Fax(408) 874-2443
Industrial Relations	Joseph M. Sutton, PE	B(415) 973-3388	H(415) 668-9686	Fax(415) 972-9431
Honors & Awards	Lynden F. Davis, PE	B(415) 768-0630	H(415) 525-7418	
History & Heritage	Bruce Nyhuis, PE	B(707) 646-4371	H(707) 747-5740	Fax(707) 646-4513
Nominating	Julia A. Gee, PE	B(415) 768-1234	H(415) 526-2722	
Prof. Prac./Ethics	Prof. Ralph G. Davis	B(707) 648-4270		
Technical Activities	Charlie Howard			

### OTHER SECTION CHAIRPERSONS

Mt. Diablo	Vince Dilworth, PE	B(415) 876-3449	H(415) 830-2732	
Sacramento-Sierra NV	Christine C. Fallon	B(209) 942-1498	H(916) 637-4048	Fax(209) 942-1761
San Mateo	Mehmet Evizi	B(415) 361-2347	H(415) 349-2052	Fax(415) 361-7667
Santa Clara Valley	Stephen K. Maglie, PE	B(408) 284-3077	H(408) 281-1280	