



The American Society of  
Mechanical Engineers

Editor: Madeleine Moffitt  
2427 Hilgard Ave. #23  
Berkeley, CA 94709  
Phone: (510) 540-8551 (voice)  
(510) 643-5599 (fax)

ASME San Francisco Section

# Newsletter

September 1993

## September Dinner Meeting

**Speaker:** Dr. H. Kazerooni  
U.C. Berkeley

**Date:** Tuesday, September 28

**Time:** 6:00 No-host cocktails  
7:00 Dinner  
8:00 Program

**Place:** Spenger's Fish Grotto  
1919 4th Street, Berkeley  
Located directly north of  
University Ave. off of I-80



**Cost:** \$ 16 Members  
\$ 18 Non-Members  
\$ 8 Students

**Menu:** Fish & Chips or  
Breast of Chicken

**RSVP:** S.F. ASME  
(415)721-4478  
by Friday, September 24

### HUMAN AMPLIFIERS

"Human Amplifiers" are a class of robots worn by humans to increase human mechanical ability, while the wearer's intellect remains the central intelligent control system for manipulating the robot. Commands are transferred to the robot via the contact forces between the human and the robot, eliminating the need for a joystick, push-button, or keyboard to transfer such commands. The operator becomes an integral part of the robot, and in this unique configuration the human body, in physical contact with the robot, exchanges power and information signals with the robot. The robot transfers to the human arm, as natural feedback, a scaled-down value of the actual external load which the robot is manipulating; the human "feels" the external forces in the manipulations. Dr. Kazerooni will describe several of the electric and hydraulic human amplifiers which have been designed and built at the University of California at Berkeley.

### MESSAGE FROM THE CHAIR...

Welcome to the first newsletter for 1993-94! We are fortunate to have retained most of our experienced committee members and have gained several new ones that I want to introduce:

- Laura Vavrunek is ambitiously jumping in as Program Chair.
- Dan LaRochelle and John Roubanis will work on Government Relations and Technical Activities.
- Brandon Muramatsu will be taking over the College Relations Chair.
- Greg Case is Satellite Programs Chair and College Relations contact at the Maritime Academy.
- Sean Garry will be College Relations contact at San Francisco State.

They are enthusiastic and will keep us on our toes!

#### This year our goals include:

1. Building on the Industry Breakfast from last spring to improve our ties and services to industry in our section.
2. Improving College Relations with the schools in our area.
3. Increasing the membership in the section.
4. Increasing Committee participation.
5. Holding a successful Bay Area Technical Conference.
6. Developing a more extensive Government Relations program.

No, I haven't lost my job and I am not trying to make up for it with ASME! We just have such a great staff that I know great things can be accomplished. All of us are looking forward to an exciting year. Please join us at our ExCom meetings (time and place info on back of newsletter) if this sounds interesting to you. Hope to see you soon!

Bill Nott, Chair

### ASME San Francisco Section 1993-94 Executive Council

<b>Chair</b> Willard A. Nott (408)743-2378 (408)742-2461 FAX	<b>Programs</b> Laura Vavrunek (510)601-7370	<b>Government Relations Technical Activities</b> Dan LaRochelle (510)649-1464
<b>Vice-Chair</b> Donald W. Moseman (415)768-5688	<b>Membership Interests</b> Dennis K. Lieu (510)642-4014	<b>Newsletter Editor</b> Madeleine Moffitt (510)540-8551
<b>Treasurer</b> Stefan Wagner (415)586-0150	<b>Professional Practice &amp; Ethics</b> Rich Myhre (510) 444-8707	<b>History and Heritage</b> Eric Worrell (510) 228-1220 x2571
<b>Secretary</b> Eric Broadhurst (415)397-0442	<b>Industrial Relations</b> Marco Bruzzano (510)242-1604	<b>Unemployed Members</b> Lynden Davis (800)624-9002

### San Francisco Section Executive Council Meetings

(no obligations and we don't bite)

1st Wednesday or Thursday (alternate) of each month  
at 6:15

Offices of Bevilacqua-Knight (BKI)  
501 14th Street, Suite 210

Oakland City Center Complex near 12th Street BART  
Validated parking at City Center garage

All members are welcome and encouraged to become active and help plan this year's Section activities. For more information, call our voice mail message (415)721-4478 or Bill Nott at (408)743-2378.

#### Advertising Space Available:

\$200 full page  
\$100 half page  
\$20 business card  
\$10 classified (25 word max.)  
Contact Madeleine Moffitt (510)540-8551

The next **Job Hunting Seminar** will be held:  
**Monday, November 8, 1993** in San Francisco  
Check next month's newsletter for the exact time  
and location!

#### \*\*\* JOB BULLETIN \*\*\*

##### MEMBERS

Looking for a job? Contact the ASME Western Regional Office to obtain a copy of the Job Bulletin. 1-800-624-9002

##### COMPANIES

Looking for mechanical engineers? Contact the ASME Western Regional Office to place a free listing in the Job Bulletin, or to obtain information regarding advertising in *Mechanical Engineering* magazine.