

# SAN FRANCISCO SECTION THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS



OCTOBER 1977

NEWSLETTER

RAY RAHN 415/781-4211 Editor

## SECTION NEWS

### CHAIRMAN'S NICHE

By the time this newsletter goes to press, our first Section meeting will have happened.

One measure of the success of a Section meeting is the number of people in attendance. The San Francisco Section provides interesting speakers and dinners at each meeting. I realize that not all technical topics will be of interest to all engineers. However, I hope that by providing a wide range of technical subjects at the Section meetings, attendees will gain a broader perspective of how different mechanical engineering disciplines interrelate.

The San Francisco Section has some 1200 members, but the monthly meeting attendance has averaged only 30 people. I believe that we, as professionals, should expect better performance from ourselves. This disappointing attendance trend can be changed if you decide now that you will set aside just three hours of your time once a month to attend our Section meetings.

John Sale, Section Chairman

### OCTOBER 20, 1977 (THURSDAY) — DINNER AT U.C. BERKELEY FACULTY CLUB AND TOUR OF LABORATORIES (PAST CHAIRMAN'S NIGHT)

Social Hour: 6:15 - 7:00 p.m.  
Dinner: 7:00 p.m.

Roast Beef Dinner with Wine: \$8.00  
Lab Tour: 8:00 - 9:30 p.m.

After a year's absence we return to the tradition of meeting for dinner at the U.C. Men's Faculty Club followed by a tour of some laboratories. Among the laboratories which will be visited this year are:

#### 1. COMBUSTION LABORATORIES — 40 Hesse Hall

The combustion laboratories located in Hesse Hall are devoted to a wide range of experimental studies including detonations, flames, internal combustion engines, gas turbine combustors, fires, pollutant formation, and coal combustion. Of particular interest is the square piston simulator for the study of combustion in piston engines. High speed color schlieren motion pictures have been obtained which show the details of piston generated vortices, the ignition process, and flame propagation.

#### 2. DYNAMIC STABILITY LABORATORY — Mechanics of Skiing Injuries — 1113 Etcheverry Hall

The investigation of leg and ankle injuries in skiing and the design of release bindings used by skiers require determination of the forces occurring in the actual process. The tour will demonstrate a special test ski and instrumentation for force measurements during skiing and the subsequent data analysis procedures. Specially developed apparatus for testing release bindings will also be demonstrated.

#### 3. NUCLEAR REACTOR — 1110 Etcheverry Hall

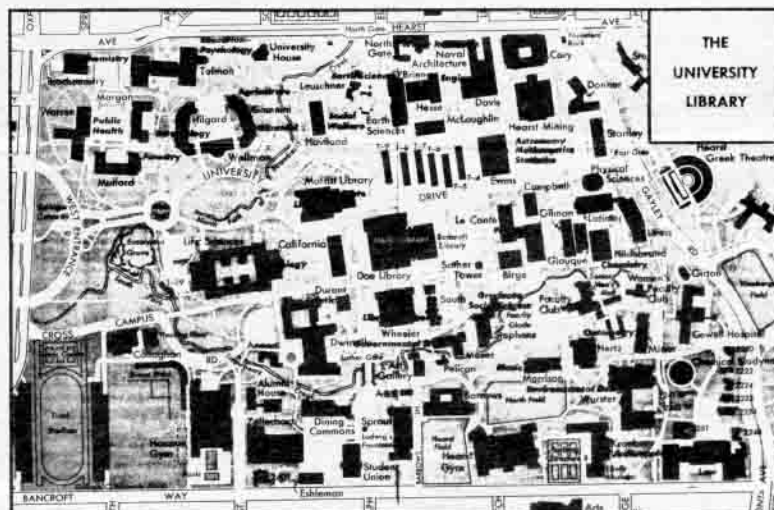
The Nuclear Engineering Department will discuss and operate their 1000 KW research reactor. Bring your cameras for some interesting photographs.

The map shows the location of the Faculty Club as well as Hesse and Etcheverry Halls where the laboratories are situated. After 6:00 p.m., parking on campus costs 25¢ if you enter the West Gate, East Gate or the entrance between Cowell Hospital and the Football Stadium (marked with an arrow on the map).

Because of the limited size of the kitchen facilities at the Faculty Club, it is ESSENTIAL that we get an accurate estimate of attendance by 5:00 p.m., Monday, October 17. Please plan to come with your spouse—and other friends—for the tour has always been of general interest. We will take

We will take a little time out at dinner to honor our past chairmen. Come and renew some "old?" acquaintances.

For reservations please call Mrs. Carmen Marshall at 642-3458.



### NOVEMBER 17, 1977

Don Parker, Hexcel Corporation, will speak on "Large Solar Energy Installations".

### MEMBERSHIP DEVELOPMENT ANNOUNCEMENT

Associate members - do you know that you can upgrade your status to that of member, and if you are over 30 there is no increase in your dues for the higher grade?

Call Don Roth 843-2740 Ex 6780 for information.

### CONTINUING EDUCATION

Below is a copy of a letter that was jointly signed by the San Francisco Sections of IEEE, ASME, and ASCE.

Extended University programs, similar to the one discussed in the letter below, are a means by which engineers working in industry - you and I - can continue our education. Fading programs, such as this one, mean there is one less way to keep abreast of current engineering theory. Perhaps we should be more concerned and expressive about them.

### BAY AREA COUNCIL OF INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS SAN FRANCISCO SECTION OF AMERICAN SOCIETY OF MECHANICAL ENGINEERS SAN FRANCISCO SECTION OF AMERICAN SOCIETY OF CIVIL ENGINEERS

Addressed to: Pres. David S. Saxon

July 21, 1977

Dear President Saxon:

This letter is written on behalf of the three major professional engineering societies representing nearly 20,000 electrical, electronic, mechanical and civil engineers in the San Francisco Bay Area and much of Northern California. We strongly support the continuation of a continuing education program similar to the successful College of Engineering TV Master of Science Program at the Berkeley campus. Many of our members have participated in this program, and we would expect that many more would want to do so in the future, particularly if civil engineering courses were added to the scope of instruction.

Most practicing engineers have a strong desire to update their technical knowledge and many desire to seek a Master of Science degree from the University of California while doing so; however, except in rare instances, these engineers find it virtually impossible to quit their jobs or to take an extended leave of absence to become full time on-campus students.

We have appreciated the leadership given by the University of California College of Engineering faculty on the Berkeley campus in developing the current TV Master of Science Program. We have also been impressed with the support given by the following entities participating in the program by receiving the courses: Lawrence Livermore Laboratory, Pacific Gas and Electric Company, Bank of America Systems and Equipment Research Division, Naval Air Station in Alameda, and Hewlett-Packard Company in Santa Rosa.

We are aware that the Extended University programs on all campuses were deleted from the budget early in 1976 by Governor Brown, with the result that efforts are underway to phase out the students involved. We believe that this decision is most unfortunate and is certainly a step in the wrong direction.

We were encouraged to hear of the proposal by the Berkeley College of Engineering for continuing education in engineering via television that provided for off-campus students paying delivery charges to support the program. On behalf of our professional societies, we three graduates of the College of Engineering, Berkeley campus, wish to add our strong recommendation that you approve this program.

If you wish to communicate with us regarding this matter, please contact Mr. Walter F. Anton, who is coordinating our efforts on this matter. (Correspondence: P.O. Box 24055, Oakland, Ca. 94623; Phone: 835-3000, Ext 352) Mr. Anton is the Vice President of SF Section ASCE, the Director of Engineering at EBMUD, and a recipient of a Master of Science degree from the University of California Berkeley.

### MEMBERSHIP DEVELOPMENT MESSAGE

Our membership roles are languishing! Please mention ASME to a business associate, and give his name to me, DON ROTH, PHONE: 843-2740 EXT. 6780

Remember, you too are responsible for the strength and vigor of our organization. We need your help.

## NATIONAL NEWS

### 1978 INTERNATIONAL CONFERENCE ON PNEUMATIC HANDLING — PNEUMOTRANSPORT 4

The 1978 Pneumotransport 4 Conference, arranged by BHRA Fluid Engineering, England, in conjunction with the Colorado School of Mines, and with the cooperation of the Materials Handling Division of ASME, will be held June 25 - 29, 1978 at Highlands Inn, Carmel-by-the-Sea, California.

The essential theme of the Conference will be the pneumatic transport of solids. The meeting is expected to attract the attention of leading authorities on the subject, world-wide.

**Scope:** The following list of topics gives an indication of the main areas of interest:

Fundamental gas / solid flow studies	Wear of plant & degradation of materials
Flow characteristics / friction losses	Pneumatic capsule transport
System design and construction	Health and safety aspects
Pipeline installations and operating experience.	Economics

**Offers of Papers:** Authors are invited to submit abstracts not later than October 1, 1977. Completed manuscripts of 3,000-5,000 words will be required by November 1, 1977.

For abstracts and more information, call Ivan Stankovich, Kaiser Aluminum & Chemical Corporation; 300 Lakeside Dr., 1364 OB; Oakland, Ca. 94643; Telephone: (415) 271-5551.