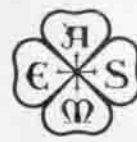


SAN FRANCISCO SECTION THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS



SEPTEMBER 1977

NEWSLETTER

RAY RAHN 415/781-4211 Editor

SECTION NEWS

CHAIRMAN'S NICHE

WHAT IS THE PURPOSE OF ASME? During the past few years, I have been struggling with this question. As your incoming Chairman, I would like to present to you my thoughts on this subject.

Most engineers will recognize that ASME's major visible effort is the publication of technical information through its monthly magazine, papers, conferences, and codes and standards. If this were the only purpose, there would be no need for ASME Groups, Subsections, Sections, or Regional activities; ASME would function only as an administrative body for technical activities.

But, I believe that ASME is more than a self-serving technical organization. It is a professional society that is interested in both the professional and technical future of its members. In addition to ASME's technical efforts, I would like to discuss how ASME serves your professional needs.

ASME Section meetings serve to bring together mechanical engineers so that they can participate in the social and technical aspects of our profession. There, local and national matters that affect our existence as a professional can be discussed. This year, we plan to continue providing a broad spectrum of technical subjects. Even though you may not be directly involved or interested in a particular subject, broadening your knowledge will never be a professional liability.

Recently, the San Francisco Section has received requests from the City and County of San Francisco to participate on engineering task forces. I am attempting to meet their requests through our Public Affairs Committee, because I believe that it is one of our society's professional responsibilities. I have also asked one of our members who is a member of the Air Pollution Control Association (APCA) to report on items being considered by the Bay Area Air Pollution Control District that may affect our profession. Based on our Public Affairs Committee's recommendations, and subject to Section and Region approval, I fully expect that we will be taking public stands on issues being considered in the public sector.

There are many other committees that will be expanding their efforts: Student Affairs, Member Interest, Honors and Awards, and History and Heritage to name a few. Each committee has the potential for increased Section and civic involvement. But, every committee needs members who care and are willing to work.

Everyone has to recognize that ASME is largely a volunteer organization. There is an ASME staff, but they are directed by the membership: *you and me*. Your participation in Section activities is fundamental to ASME's existence. This all leads back to the question "what is ASME"? ASME IS YOU!!

JOHN SALE, Section Chairman

• SECTION PROGRAMS •

SEPTEMBER 24, 1977 (Saturday) — Bus Trip And Tour Of PG&E Geysers Installation & Wine Tasting...

A growing number of countries around the world are attempting to develop underground steam to spin turbine-generators that make electricity. The Geysers geothermal energy development, in remote northeastern Sonoma County about 90 miles north of San Francisco, is the only geothermal power project in the United States and the world's largest.

"The Geysers" here are not really geysers but fumaroles. The difference is that real geysers, like famed Old Faithful in Yellowstone National Park, send up fountain-like jets of hot water and steam at intervals. Fumaroles are fissures which emit water vapor steadily.

The trip to visit Geysers will cost \$9.00 per person and includes a catered lunch with all the wine you care to drink and wine tasting afterwards. Our itinerary is listed below:

8:00 A.M. — Leave PG&E waterfall at: 77 Beale Street in San Francisco	1:00 P.M. — Arrive at Simi Winery for Lunch.
11:00 A.M. — Arrive at The Geysers and Tour.	2:00 P.M. — Tour of Winery & Wine Tasting.
12:15 P.M. — Leave The Geysers	3:00 P.M. — Leave Winery.
	5:00 P.M. — Arrive at PG&E in San Francisco.

Space will limit the 8:00 A.M. trip to 80 people. For Reservations Call Before September 16:

RAY RAHN (415) 781-4211 EXT: 3409, OR
JOHN SALE (415) 781-4211 EXT: 1896.

Please mail \$9.00/person immediately after confirming your reservations to:

RAY RAHN — 77 BEALE STREET, ROOM 2674, SAN FRANCISCO, CA 94106.

A tour leaving PG&E at 9:00 A.M. MAY be available depending on response for the 8:00 A.M. Tour.

CONTINUING EDUCATION

As the representative responsible for continuing education, I will try to keep you apprised of the educational opportunities that come up around the Bay Area. The many educational institutions in the area offer specialized courses in addition to this regular program. The specialized courses are the ones that I will try to make you aware of. To help me in this effort, I would appreciate your help. Please forward to me a copy of any special course announcement that you come across which you think would be of interest to the members. I will then make sure that a notification is published in the newsletter and have the announcement available for those who want additional information. *The announcement should be sent to:*

R. N. SYKES (221/5/AB) — Bechtel Power Corporation, P.O. Box 3965 · San Francisco, California 94119

UPCOMING EVENT:

October 20, 1977 — Banquet and tour of student projects at University of California, Berkeley. (Ladies Night). Dinner meeting at U.C. Faculty Club.

— EXECUTIVE COMMITTEE —

The Executive Committee is responsible for carrying on Section Business. Members of the 1977 - 1978 Executive Committee and subcommittee chairmen are listed below for your information. Please call any of these gentlemen with questions or suggestions which you may have.

Section Chairman	John Sale (415) 781-4211 Ext. 1896	Technical Activities Chairman	Jerry Fischenich (415) 635-4742
Section Vice Chairman	Dan Mote, Jr. (415) 642-2544	Honors & Awards Chairman	Al Greenland, Jr. (415) 577-5727
Secretary	Jack Bailey (415) 820-0441	History & Heritage Chairman	Gary Tidrick (415) 781-4211 Ext. 1802
Treasurer	Jack Darnell (415) 768-2271	Nominations Chairman	Al Greenland, Jr. (415) 577-5727
Member-at-Large	John Bradburn (415) 768-1644	University Affairs	Don Parker (415) 828-4200 Ext. 271
Member-at-Large	Lynn Redman (415) 435-3855	Public Affairs Chairman	Bill Nutting (415) 781-4211 Ext. 3095
Program Chairman	Del Whipple (415) 835-3000 Ext. 456	Membership Development Chairman	Don Roth (415) 2740 Ext. 5385

NATIONAL ASME NEWS

1977 JOINT POWER GENERATION CONFERENCE (ASME — IEEE — ASCE)

The 1977 Joint Power Generation Conference will be held September 18-21, 1977 at Long Beach, California on board the Queen Mary. The theme of the Conference is "Energy—The Backbone of the Economy."

There will be three (3) morning panel sessions covering fuel availability, hydrogenerators and gas turbines. The twenty-eight (28) afternoon sessions will consist of two panel sessions and approximately one hundred (100) technical papers. These will cover a wide range of topics in the areas of nuclear and fossil fuel station design and operation, reliability and environmental control. The conference is jointly sponsored by ASME and IEEE with ASCE participating.

Call Ray Rahn, Ph. [415] 781-4211, Ext. 3409 for additional information.

2nd AIAA/ASME THERMOPHYSICS AND HEAT TRANSFER CONFERENCE — CALL FOR PAPERS

The conference will be held May 24-26th, 1978, at Rickey's Hyatt House in Palo Alto, California.

All abstracts submitted for consideration must include:

1. Complete title of the proposed paper.
2. Author(s) name, title, company affiliation, including department or section, and address.
3. A concise statement of the problem (and possibly its genesis), or the objective covered.
4. An indication of the scope and methods of approach, coupled with a statement of what is considered to be a contribution to the state-of-the-art or to be an interesting application of existing analytical techniques and theories to a new problem.
5. A summary of important conclusions, with a statement as to whether the material is new or whether similar results have been, or may be, presented or published elsewhere.
6. A brief statement of data used to substantiate conclusions, and freehand sketches of major figures to be used.
7. Authors must inform each organizer if abstract is submitted to more than one session topic organizer.
8. All program participants and authors will be charged a registration fee (AIAA Member Rate) at the meeting.
9. Authors of accepted papers will be expected to submit a 100-word abstract (12 weeks prior to a meeting) and a photo-ready manuscript (6 weeks before a meeting). Government Program Monitors/Security Officers should be alerted as soon as authors receive formal acceptance of paper.

*Reminder: AIAA has first publication rights to all papers presented at its meetings. Manuscripts accepted for the meeting will be evaluated for publication in the appropriate AIAA journal, if the author requests it.

The ASME-sponsored sessions will cover topics organized by the Heat Transfer Division. Papers intended for ASME sponsorship should be directed to the appropriate ASME session organizers listed below. Authors of ASME papers are required to submit complete manuscripts to the appropriate session organizer by November 3, 1977. Authors are encouraged to submit a brief abstract stating intent to the session organizer at their earliest convenience, but no later than September 15, 1977. Authors of ASME papers will be notified of paper acceptance or rejection by December 21, 1977. They are required to submit the final completed manuscript on ASME mats to the session organizers by January 20, 1978. Authors of exceptional ASME papers will be encouraged to submit their work to the *Journal of Heat Transfer* for archival publication. The session topics proposed for ASME are as follows:

ENVIRONMENTAL EFFECTS OF ATMOSPHERIC HEAT RELEASES

Dr. Kenneth E. Torrance — Grumman Hall 289, Cornell University, Ithica, N. Y. 14853 — (607) 256-6253

HEAT TRANSFER IN SOLAR ENERGY SYSTEMS

Dr. Gary C. Vliet — Mechanical Engr. Dept., University of Texas — (512) 471-4584

HEAT TRANSFER IN COMBUSTION

Dr. Lawrence A. Kennedy — Mechanical Engr. Dept., State University of New York, Buffalo, N. Y. 14214 — (716) 831-3125

FUNDAMENTALS OF HEAT TRANSPORT PROCESSES IN TURBULENT FLOWS

Dr. Brian E. Launder — Mechanical Engr. Dept., University of California, Davis, Calif. 95616 — (916) 752-1452

HEAT TRANSFER IN BOUNDARY LAYERS

Dr. John R. Lloyd — Aerospace & Mech. Engr. Dept., University of Notre Dame, Notre Dame, Ind. 46556 — (219) 283-7198

HEAT TRANSFER IN PLASMAS

Dr. J. Robert Mahan — Mechanical Engr. Dept., Virginia Polytechnic Institute & S. U., Blacksburg, Va. 24061 — (703) 951-6953

STABILITY OF BUOYANCY INDUCED CONVECTIVE FLOWS

Dr. Joseph C. Mollendorf — Mechanical Engr. Dept., State University of New York, Buffalo, N. Y. 14214 — (716) 831-5287

PERMAFROST PROTECTION DEVICES

Dr. Robert L. Reid — Mechanical Engr. Dept., Cleveland State University, Cleveland, Ohio 44115 — (216) 687-2555

HEAT TRANSFER IN ENERGY STORAGE SYSTEMS

Dr. Frederick W. Ahrens, EES Division, Argonne National Lab, 9700 South Cass Avenue, Argonne, ILL. 60439 — (312) 739-7711 Ext. 5471

RADIATION HEAT TRANSFER

Dr. Bassem F. Armaly — Mechanical Engr. Dept., University of Missouri, Rolla, Mo. 65401 — (314) 341-4671

GEOPHYSICAL HEAT TRANSFER

Dr. Clifford J. Cremers — Mechanical Engr. Dept., University of Kentucky, Lexington, Ky. 40506 — (606) 258-2661

HEAT TRANSFER IN LASERS

Dr. Thomas E. Horton, Jr., — School of Engineering, University of Mississippi, University, Miss. 38677 — (601) 232-7219

General inquiries or suggestions regarding the scope of the meeting should be directed to the Conference General Co-Chairmen:

Prof. Raymond Viskanta, AIAA - School of Mechanical Engineering, Purdue University, West Lafayette, Ind. 47907 — (317) 493-8190