



**San Francisco & Mt. Diablo Sections of
The American Society of Mechanical Engineers
Present:**

***Building Performance Under Fire Conditions
In High Rise Buildings***

Gary Piermattei
Rolf Jensen & Associates, Inc.

The presentation will review the requirements for structural fireproofing in high rise buildings, describing how they were developed and their performance. The review will include a discussion of the relationship between the fire loading and the fire severity as well as a review of the fire history in high rise buildings in the last 35 years. There will be some discussion of the WTC event and the questions it raises.

Gary Piermattei is both a mechanical engineer and a fire protection engineer who works for Rolf Jensen & Associates, Inc., a leading fire protection engineering firm. He has served on NFPA 72, National Fire Alarm Code, and is now serving on NFPA 15 and 16, "Water Spray Fixed Systems for Fire Protection" and "Installation of Foam-Water Sprinkler and Foam-Water Spray Systems" respectively. He has been involved in the development of fire protection systems for a number of high rise buildings on the West Coast.

Event Information

Where: Spenger's Fresh-Fish Grotto
1919 Fourth Street,
Berkeley, CA

When: Wednesday, Feb. 13, 2002

Schedule of events:

6:00 p.m. No host cocktails & Registration
6:30 p.m. Dinner
7:30 p.m. Presentation
8:30 p.m. Questions & Answer/Closing *(Cont'd on next column)*

INSIDE THIS ISSUE

- **Scholarships Available to FIRST Students**
- **Time to Cram for the PE Exam**
- **National Engineers Week 2002**
- **2002 ASME International Officer Nominations**

(San Francisco & Mt. Diablo.....cont'd from last column)

Menu Choices:

1. Rainbow Trout with Hazelnut Butter Sauce
2. Grilled Chicken Breast with Mustard Tarragon Sauce

COST:

\$30.00 for ASME members. \$35.00 for non-members.
\$15.00 for ASME student section members.

RSVP: 415-721-4478 or Rsvp@sf.asme.org

Please make RSVP and specify your meal choice by Monday Feb. 11 (please leave your phone # &/or email address).

Calendar of Events

February 13	Building Performance Under Fire Conditions 25th /50th -Year Membership Award Ceremony
March	UC-Berkeley Crab Feed Meeting / Distinguished Guest Speaker
April 6	CSUM Picnic
May	Plant Tour

Chairman's Message

It was a pleasure to have Professor Carlos Fernandez-Pello of the Department of Mechanical Engineering, U C Berkeley, as our dinner meeting speaker on December 11, 2001. It still is hard to believe that they are developing micro engines that are as little as three millimeters in size. The range of potential applications such as propulsion for small devices and portable power generation is intriguing. We are fortunate to be close to so many well-known researchers at Berkeley and would certainly hope to continue to benefit from their participation in our meetings.

We have reached the middle of our 2001-2002 season. We have had a number of successful meetings and we are planning additional interesting events. These include the Berkeley annual crab feed, a picnic at the California Maritime Academy, and a possible tour of a local facility.

The dates for the rest of this season is filling fast so if there is an event of interest to you, please contact us soon. *(cont'd on page 2)*

GEOMETRIC DIMENSIONING & TOLERANCING

DATE: Saturday, February 16, 2002

TIME: 9:00 am - 4:00 pm

PLACE: San Jose State University
Engineering Building

Objective: GD&T has long been considered something of a blacksmith's art if not altogether a black art. Everyone seems to have his or her own way of "interpreting" the language. In fact it is understood as a given, that drawings are to be "interpreted". Our one-day seminar debunks this myth by listing and explaining the rules behind the ASME Y14.5 1994 Standard, thus turning it from an obscure art into logic based, mathematical science.

Who Should Attend: Mechanical Designers will learn how to "encode" the function of a part using GD&T, rather than dabbling at merely decoding it with GD&T symbols. Manufacturing Engineers will learn how to "decode" GD&T drawings and convert them into manufacturing processes. Manufacturing inspectors will discover how the new science of GD&T fully defines inspection requirements to close the loop.

Course Outline: The seminar is presented in four sections. The first section begins by asking and answering the questions (1) what is the science of GD&T, (2) what is it for, and (3) how does it work. Section two presents detailed definitions of the functional, but generally merely implicit, rules of the current standard and illustrates their application and usefulness. Section three is dedicated to investigating those tools and rules in the standard, which fail to perform useful functions, and must therefore be avoided or used with great caution, including suggestions for how to accomplish needed goals without them. Section four illustrates how to "encode" the function of each feature of a CAD model using Smart GD&T methods, thus putting the many, now explicit rules to work.

Instructor: William S. Tandler,
President of Multi Metrics, Inc

FEE: \$80 ASME Members
\$120 NON-ASME Members
\$30 ASME Student Members

For more information and registration call: ASME Western Region Office at 800/624-9002 or FAX: 415/499-1338

(Chairman's...cont'd from cover page)

This also is an appropriate time to encourage you to become involved in the executive and activities committees of your local section. We have been blessed with an interested, dedicated, and energetic group of members. We have been able to attract some new volunteers, but certainly can use a few more. The ones who have helped us for the past few years bring valuable experience to the section, but the new ones bring fresh ideas and points of view. The combination works best.

We have done a better job of working with the student sections, but have a long way to go to reach our vision of interaction among us. We encourage the student section leaders and their faculty advisors to participate in our planning activities.

Please contact our nomination committee chairman, Rich Myhre, or any of us if you or someone you recommend should be nominated for any of the position for the next season.

Manuch Nikanjam

National Engineers Week 2002

ASME members wishing to concentrate specifically on mechanical engineering during E-Week should consider contacting Information Central at (800) 843-2763 to obtain copies of various ASME-produced videos aimed at K-12 students.

The videos are accompanied by lesson plans, posters, handouts and other presentation materials. Available videos include *Engineering is for Everyone*, for elementary schools, *Mothers of Invention* for middle schools, and *Career Encounters: Mechanical Engineering* for high schools.

E-Week 2002 planning kits will be available from Information Central in December.

New Dimensions in Multidisciplinary Thinking: Issues, Trends, and Implications for Mechanical Engineers and ASME

The Committee on Issues Identification has released a new report that focuses on issues and trends that result from the expanded role of multidisciplinary engineers in all sectors of industry and government. It explores the nature of multidisciplinary engineering – where and how it is being employed – and examines its impacts on mechanical engineering practice, education, professional licensure and the research and development environment.

Finally, the report considers the impact of multidisciplinary thinking generally on the field of mechanical engineering, and on ASME International as an organization serving the mechanical engineering profession. Copies of the report may be ordered through ASME Information Central at 1-800-THE-ASME (order #AF0201) or through the on-line Publications Catalog at <http://www.asme.org/catalog>. The cost is \$15 per copy for ASME members; \$20 per copy for non-members.

For additional information, contact Mary Legatski in the ASME Washington office at 202-785-3756 or at legatskim@asme.org.

2002 ASME International Officer Nominations

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 programs, it is essential that the members continue to select new officers who are capable, dedicated individuals with exceptional leadership qualities.

The 2002 Nominating Committee, consisting of 38 voting members, urges that you submit your proposals now. As part of its selection process, the Committee 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 Nominating Committee will select 13 nominees for Vice Presidential positions for the 2003-2006 term. There will be five Regional Vice President positions (I, VII, IX, XI and XIII); three Engineering Vice President positions (Engineering & Technology Management, Environment & Transportation, and Int'l Gas Turbine Institute); two Codes and Standards Vice President positions (Conformity Assessment, and Safety Codes & Standards); and three other Vice President positions (Engineering Education, Government Relations and Member Interests & Development).

The Nominating Committee will select three nominees for the member-at-large positions on the Board of Governors for the 2003-2006 term, and a nominee for President for the 2003-2004 term.

If, as a member of ASME, you are interested in submitting a proposal for any one of the above elective offices, please contact Rita M. Patterson, Secretary, 2002 Nominating Committee, at 409-772-9071, rita.patterson@utmb.edu. The nomination package is available on ASME's web site <http://www.asme.org/honors> or copies may be obtained from Gilda A. DiTullio at ASME Headquarters at 212-591-7736, ditullio@asme.org. The deadline for submitting completed proposal forms is April 15, 2002.

The Nominating Committee will be meeting during the Summer Annual Meeting in Minneapolis, Minnesota, June 9-12, to nominate individuals for ASME Society office. The names of the nominees will be on the officer election proxy that will be circulated to the membership in September 2002.

2001-2002 Member-Get-A-Member Campaign

Invest in the Future of Mechanical Engineering. Help ASME International serve the needs of the mechanical engineering community by sponsoring new members. With each new member you recruit, 50% of the first year's dues will be spent on scholarships for mechanical engineering students. For complete program details, log onto: <http://www.asme.org/membershipdrive>

ASME International San Francisco Section

ARTICLE C.5.1.2 of the Constitution of the American Society of Mechanical Engineers (revised to March 18, 2000) states; The provisions of the Constitution and By-Laws and Society Policies established by the Board of Governors of the Society shall govern the procedure of all units of the Society but no action or obligation of such units shall be considered an action or obligation of the society as a whole. This provision shall be imprinted on any publication issued by such units

SF. Executive Committee for 2001 - 2002

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We value your contributions. Please submit your comments and suggestions or any news items to the San Francisco Section of ASME through Chair's email address.

Interested in volunteering with the San Francisco Section?

Contact the Chair directly, attend an executive committee meeting, or talk to a committee member at one of our events. For voicemail, call (415) 721-4478 or contact us through our website at www.sf.asme.org and get involved!

NOMINATE A SCHOLAR!! SEVEN \$5,000 SCHOLARSHIPS AVAILABLE TO FIRST TEAM STUDENTS

ASME members and student members can nominate graduating high school seniors active on FIRST teams for ASME/FIRST Scholarships. Candidates must have plans to go into accredited mechanical engineering or mechanical engineering technology program.

Thanks to a generous grant from the ASME Foundation, seven one-year awards for \$5,000 will be made in April 2002. Deadline for nominations is MARCH 1, 2002. Descriptions and downloadable application forms are available on the web at <http://www.asme.org/educate/k12/first/firstscholarship.htm>

Contact Theresa Oluwanifise at oluwanifiset@asme.org or Edie Ervin at ervine@asme.org.



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Time to Cram for the PE Exam!

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For details, please visit our Website
(http://www.asme.org/pro_dev/exam_preparation_courses.htm);

Contact Thomas Kuehl, 212-591-8013
(kuehlt@asme.org) or
Kathy J. Warner, 212-591-7411
(warnerk@asme.org).

Partners In Mechanical Engineering Grants Available!

Sponsored by the board on Minorities and Women (BMW), the Partners in Mechanical Engineering program provides funding on a first-come, first-served basis to ASME Sections for projects and/or activities that support collaboration with local sections or chapters of organizations that support women and underrepresented minority group in engineering.

Grants range from \$500 to \$1000 depending upon the size and scope of the project or activity. Proposals may be submitted at any time of the year.

To request a copy of the application form, contact Mary Legatski in the ASME Washington Center at 202-785-7380 or at legatskim@asme.org. An application may be filed on-line at www.asme.org/bmw/partners.html.