The American Society of Mechanical Engineers

The Bay Connection

Newsletter of the San Francisco Section of the American Society of Mechanical Engineers

October / November 1995

: Newsletter now online at http://design7.berkeley.edu/sfasme :

Message from the Chair

The ASME Big Top Comes to Town

ASME's largest annual conference, the International Mechanical Engineering Congress & Exposition (formerly the Winter Annual Meeting), will this year be held in the City, November 12-17, at the San Francisco Hilton & Towers on the corner of O'Farrell and Mason Streets. More than 2000 attendees will be hosted to nearly 500 technical sessions, an exhibit hall populated by more than 100 vendors, keynote presentations by industry leaders, and student oral and design competitions. If the 15 minutes of fame rule applies to ASME leaders, this will be our chance. A local host committee comprised of members from each of the Bay Area sections, has planned a variety of tours, community and educational outreach activities, programs for ME students and young engineers, and a means for local students to learn more about engineering and professional members to attend at reduced or no cost through service an session aides and evaluators (please see inside). We've even scheduled our November section meeting to be held on the eve of the conference's first big day. Please consider attending our meeting on the future of BART (it's free!) and take advantage of the opportunities the Congress brings to our front door. Thanks.

Rich

Events to look for at the M95 Congress and Exposition

7th Young Engineers Forum

Sunday, November 12, 1995
Begins at 8:00 AM

Since 1992, the Young Engineers Forum (YEF) provided engineers with first-hand experience in issues most relevant to their careers. YEF covers career planning, engineering applications and professional issues at large, and consists of "real life" experiences and success stories. YEF is designed for engineers with less than 10 years of experience; however, engineers will find the topics interesting. Students are also encouraged to participate.

YEF will be held in Plaza Room A of the San Francisco Hilton and Towers, 333 O'Farrell St., San Francisco. For additional information, or to sign up, contact:

Elio A. Manes
Technical Program Administrator for ASME
Mail Stop 7-A
345 East 47th Street
New York, NY 10017
(212) 705-7797
E-mail: manese@asme.org

WESTERN DIGITAL CORPORATION
is looking for key individuals to fill the following positions:

SENIOR EQUIPMENT MANUFACTURING ENGINEER
to perform equipment performance evaluation, line maintenance support, equipment calibration, equipment reliability improvements, yield improvements, equipment installation, process engineering support and problem solving.

INDUSTRIAL ENGINEER responsible for new product introduction, project and budget tracking, factory layout, project coordination, yield improvements, cycle time reductions and time studies.

BS or MS degree in a related engineering discipline and 5+ years experience, preferable in a disk manufacturing or high vacuum environment. Good documentation, communication and AutoCad skills required.

Attn: Human Resources
5101 LaPerle Street
Santa Clara, CA 95054
FAX 408-986-8849

In conjunction with the ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS & EXPOSITION, the San Francisco, Santa Clara, San Mateo, and Mt. Diablo sections are presenting a combined event on:

BART and the FOUR HOUR PROBLEM
The Past, Present and Future

by **Joseph P. Van Overeem**
Sunday, November 12, 1995

Location: San Francisco Hilton & Towers at O'Farrell & Mason Streets
Time: 7 pm Cost: FREE No Dinner Provided

Mr. Van Overeem will give an insider's view of the Bay Area Rapid Transit District's past, present, and future. Retiring this fall, he has worked on BART for over 30 years and will provide an in-depth view from a mechanical engineer's perspective.

Joe joined BART in October 1960. He presently works as a Senior Mechanical Engineer in the Maintenance & Engineering Department, and is responsible for specifying of special maintenance vehicles, escalators and elevators, track, and other special equipment. Prior to 1976, he was a Sr. Mechanical Engineer of Rolling Stock & Shops. He has been involved with every technical phase of BART since joining the District.

Prior to joining the District, Joe was employed by Parsons Brinckerhoff-Tudor-Bechtel as a Senior Equipment Engineer on the BART project. Earlier associations include the U.S. Army Ordnance, Netherlands Railroads Maintenance, and American Locomotive Company.

A native of Amsterdam, Holland, Joe received his Master of Science in Mechanical Engineering and Automotive Engineering at Purdue University. He is a life Fellow of the American Society of Mechanical Engineers and a member of the Society of Automotive Engineers and National Society of Professional Engineers.

JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR

All San Francisco Section members are invited to attend a Job Fair being hosted by the Mt. Diablo Section on the evening of November 27th. The Job Fair will feature recruiters and contract (job shop) firms from throughout the Bay Area. A local site location for the event is currently being negotiated. For site and registration information, please call the Mt. Diablo Section's voice-mail line at (510) 228-1210, x2587, or E-mail Pat Naughton at naughton@mdc.pleasant.com

JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR - JOB FAIR

ASME
SMALL BUSINESS FORUM
An interactive workshop especially for the Small Business Mechanical Engineer

The Forum offers small business mechanical engineers a chance to:

- Participate in a one-on one question and answer session with successful in technical, manufacturing and service industries entrepreneurs. These business leaders took their companies from a handful to more employees.
- Question financial, legal, and accounting experts.
- Learn about ASME's cost-effective programs for the Small Business mechanical engineer.
- Provide feedback to ASME on what it should do for Small Business members

The forum is free. Priority will be given to owners of business with less than 100 people, or entrepreneurs interested in starting a business.

Tuesday, November 14, 1995
Workshop I: 8am to noon
Workshop II: 1pm to 5pm

Sign-up today with Lynden Davis:
1-800-624-9002
FAX 614-899-4920
davisl@asme.org

****** *STOP COMPLAINING* *****

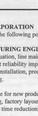
Do you have complaints about today's education? About today's youth? . . . About LIFE!? Well, now is your chance to stop complaining and do something about it!

On **SATURDAY, NOVEMBER 11**, ASME will be hosting a one-day **Math/Science Teacher's Workshop** in conjunction with the '95 Congress at the San Francisco Hilton and Towers.

This is your opportunity to work with a small group of teachers to talk about math, science, and engineering for K-12 students and follow up with your schedule and desire permits. For more information, please contact:

Bill Noel
(Home) 510-881-5035, noth@aol.com
(Work) 408-742-3632, noel@mec.lockheed.com
or
Joann Hebner
(Home) 415-566-7833
(Work) 408-255-3075, jhebner@gvidant.com

ASME WANTS YOU



The 1995 International Mechanical Engineering Congress & Exposition (formerly the Winter Annual Meeting) is looking for Session Aides and Evaluators. There will be 473 1.5 hour sessions (over 2000 presentations!!) from November 12 through the 17th at the SAN FRANCISCO HILTON TOWERS.

Session Aides:
- The Tasks: Distribute, collect, and turn in attendance cards; check attendance badges; assist with A/V equipment, etc.
- The Reward: Students, earn $10.00 per session. Professional members, waive the $3535 registration fee for working three or more sessions.

Evaluators:
- The Tasks: Professional members, evaluate at least 4 sessions in your field by filling out a questionnaire on each talk & session. There are only a small number of evaluators needed.
- The Reward: Waiver of the $260 one-day registration fee.

The upcoming *ASME Newsletter* list all the technical sessions with their dates and times. Assignment to sessions is on a first come, first served basis. To sign up, please provide the information below to:

Bishara Mogannam (ASME-SJSU)
ASME, SJSU, ME Department
One Washington Square
San Jose, CA 95192-0087

Phone: (408) 578-2876
Fax: (408) 924-3995
bishara@ix.netcom.com

Don't miss this opportunity to meet other mechanical engineers from all over the world!

Name:

Address:

Member number:

Phone number:
E-mail address:

Days and times I can attend:

Session Preferences:				
Session Code (e.g.) DSC-30	Title Symposium on Robotic Control	Day Monday	Time 9:45-9:15AM
1.			
2.			
3.			
4.			

(attach any additional preferences to a separate sheet of paper)

INTERNATIONAL MECHANICAL ENGINEERING CONGRESS & EXPOSITION

November 14-16, 1995 • San Francisco, California

Come Meet the Companies Who Provide You with What You Need In:

Computer Hardware
A.A. Lab Systems, Inc.
Campbell Scientific, Inc.
Digiboard, Inc.
Kipp & Zonen
Schnell Development Corporation

Computer Software
adaptco Analysis & Design Applications Co.
Adaptive Research Co.
ADINA R & D, Inc.
Advanced Network Computing
AEA-CFDS, Inc.
Amtec Engineering
ANSYS, Inc.
CFI Research Corp.
CADS-1
Computer Aided Design Software
Digimetrix, Inc.
dSPACE, Inc.
Engineering Systems International
Fluent, Inc.
Fluid Dynamics International
Harper Collins Computer Publishers Insitec, Inc.
Intergraph Corporation
Invention Machine Corp.
KAPPA Engineering Corporation
Kipp & Zonen
Knowledge Revolution
The Mathworks Inc.
Nikon Berkeley R & D Corp.
National Instruments
PHOENICS North America

PolyMen/Minitab International Corp.
Rebis
Russell D. Irwin, Inc.
Schnell Development Corp.
Stork Drive Products/Sterling Instrument
Wellman Research, Inc.

Digital Signal Processing
DSP Technology, Inc.
Digimetrix, Inc.

Engineering Consultants
Exxon-America, Inc.

Financial Services
Bank of America

MBNA Marketing Systems
Seaboro & Smith

Instrumentation & Measurement Equipment
A.A. Lab System Ltd.
Analog Devices Computers, Inc.
Aremtronics, Inc.
Campbell Scientific, Inc.
Control Vision, Inc.
Dexter Measurement Technology, Inc.
Digimetrix, Inc.
EROS-AMERICA, INC.
Endevco Corporation
Exterior, Inc.
Instrument Sensor Technology, Inc.
Kipp & Zonen
MTS Systems Corp.
National Instruments

PCB Piezotronics Inc.
SenTek
TSI Incorporated
Teledyne, Inc.
Vatronic
Validyne Engineering Corp.

Motors International
Honda R & D North America, Inc.
National Science Foundation
National Board of Boiler and Pressure Vessel Inspectors

Mechanical Drive Components
Stork Drive Products/Sterling Instrument

Not-For-Profit Safety/ Regulatory Organization
The National Board of Boiler and Pressure Vessel Inspectors

Professional Society
Society For Experimental Mechanics (SEM)
American Welding Society
ASME Membership
ASME[NOT]

Publishing
Academic Press Publishing Division
Autodesk Press
Cambridge University Press
CRC Press Inc./Lewis Publishers
Control Vision, Inc.
Elsevier Science, Inc.
Endevco Corporation

Experimental Techniques/The Society for Experimental Mechanics (SEM)
Gordon & Breach Publishing/ Harwood Academic Publishers
Harper Collins Publishing Insitec, Inc.
Instrument Sensor Technology
John Wiley and Sons, Inc.
McGraw-Hill, Inc.
MTS Systems Corp.
Phoenics Spectra/Lasers Publishing, Inc.
Prentice Hall
PWS Publishing Co.
Richard D. Irwin, Inc.
Schnell Development Corporation
Springer-Verlag New York, Inc.
Taylor & Francis
Validyne Engineering Corp.
Weighing & Measurement

Rapid Prototyping CAD/CAM/CIM Systems
Light Machines Corporation
Stratasys, Inc.

Testing Equipment
MTS Systems Corporation

Thermal Management Systems
AAVID Thermal Technologies, Inc.

ASME International

Exhibitor Listing by Product Line (As of September, 1995)

To attend EXHIBIT only - Just $10 at the door or phone for free VIP pass - 800-624-9002
San Francisco Hilton and Towers - 333 O'Farrell St., San Francisco, CA

Honors and Awards

The following members are recognized for 25 years of membership:

Mamdouh Abo El Ata
Tien-Yuh Chuang
Jerome Cunningham
Marshall Graven
Paul Jacobson
Jal Jassavalla
V Krishnan
James Landis
Charles McCardell
Donald Mullen
Ding Yee Nee
Robert Plaxco
Fred Sanchez
Brian Schumacher
Donald Wilhelm

The Council on Member Affairs is pleased to recognize members who will reach 25 and 50 years of membership during the 1995-96 year.

The following members are recognized for 50 years of membership:

Paul Bissiri
Joseph Finch
Werner Goldsmith
John Howell
Nickolas Skandalis

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jwu@me.berkeley.edu

S.F. Executive Committee for 1995-96

Chair
Rich Mohr, P.E. — Bevilacqua-Knight, Inc
(510) 444-8707 — rmohr@bkf.com

Vice-Chair
Eric Metzger — Criterion Catalysts
(510) 478-7202

Treasurer
Neil Suh, P.E. — Lockheed Martin MissilSpace
(408) 742-5632 — *neil@mec.lockheed.com*

Secretary
Frank Diaz — Western Digital
(408) 764-8328 — *frank_diaz@ wdc.com*

Membership Development, Ray Area Engineering Council Representative
Dottie Hedgpeth — Lockheed
(408) 936-0048 — *74339.1302@compuserve.com*

Programs
Don Mossman — Jacobs-Sirrine
(510) 945-2000 — *dmossman@jacobsse.com*

Ethics (IEEE Liaison)
Joe Wujek — Mechanical Engineering
(510) 642-4685 — *wu@ocf.berkeley.edu*

Industrial Relations
Chris Hsiung
(707) 553-4000

Educational Outreach
Brandon Maramatsu — U.C. Berkeley
(510) 654-9981 — *maru@adler.berkeley.edu*

History & Heritage
Yuki Nee Yamamoto
(510) 283-3650

Government Relations
Fay Brown
(916) 432-0211

Honors & Awards
Eric Worrell, P.E.
(510) 489-8779

DOE/Nat'l Labs Liaison
Charles Simkins — Dept. of Energy
(510) 437-1636

College Corner

UC DAVIS Student Conference

Attention New and Returning Students: Don't miss the Engineering Professionalism Conference (EPC) this Saturday, November 4. Professional engineers will discuss topics such as engineering ethics, patents and copyrights, trade secrets and other aspects of engineering vital to future success. The EPC will be held from 8:30 AM to 1:30 PM in 176 Everson, at UC Davis, and will include refreshments. For additional questions or to sign up, call Richard Lau at (510) 770-4200 x1290

San Francisco State ASME:
The following were our October events:
Sept 20: We held our first general meeting.
Oct 4: Mr. Lynden Davis, PE., of the ASME Western Region Office had a meeting with our student officers and officers.
Oct 11: Mr. Kurt Jordan, PE., an engineering consultant spoke on the present topics of engineering ethics and boiler building.
Kurt's consulting firm engineers racing yachts.
Oct 19: SIG Exchange of Alameda hosted a tour for student members. Both our tour and speaker coordinator, really likes this place.
Any suggestions? Call Robert Ballard, section chair at (415) 991-9066.

UC Berkeley ASME:
Berkeley ASME's activities have consisted of ETT review sessions, general meetings, and an upcoming pumpkin launching contest to celebrate Halloween. Berkeley ASME is in need of speakers from industry for general meetings. If you have any suggestions, please call Mike Mao, student section chair, at (510) 841-7614.

For more information on our events, please check out our **WWW page at http://www.me.berkeley.edu/~asme** or e-mail asme@me.berkeley.edu

Employment Opportunities

Beckman Instruments, a world leader in medical and scientific instruments with a 60-year history of contributing to the quality of life, has an opening for a Mechanical Engineer.

Play a critical role in the engineering development of complex instruments. The successful candidate must have a BSME and 3+ years' experience. Expertise in engineering design and analysis of sheetmetal, 3-D modeling. Finite Element is required. Previous experience with rotating systems is desirable.

Beckman offers competitive salaries and an excellent benefits package. For consideration, please send resume to:

Staffing, Beckman Instruments, Inc.
1050 Page Mill Road
Palo Alto, CA 94304
FAX: 415-858-1526
EOE. Principals only, please.

Stone & Webster Engineering
Leading engineering and design firm seeks MEs experienced in commercial and industrial HVAC, fire protection, plumbing systems, and building codes and standards. Duties include preparation of plans, specifications, and estimates, and require PE registration in CA. Send or FAX a resume for immediate consideration.
STONE & WEBSTER
Engineering Corporation
7063 Koll Center Parkway, Suite 110
Pleasanton, CA 94566
510-426-2600
FAX: 510-426-2010
Equal Opportunity Employer M/F/H/V

The Bay Connection welcomes letters to the editor, comments, and ideas for future articles! Please contact Johnny Wu, newsletter editor, (see fax, phone numbers on page 5 editor's column).

MECHANICAL/ MANUFACTURING ENGINEERS

CPI, (formerly Varian) in Palo Alto, has 2 positions for Mechanical/Manufacturing Engineers with 4 years hands-on experience in automation of the assembly and test procedures. You will help design and build components, subassemblies and related fixtures used in the manufacture of vacuum tubes, namely Traveling Wave Tubes. In addition to a BSME, your hands-on experience should include extensive material knowledge, brazing, welding, and electroplating processes.

Communications & Power Industries, Inc., with over 47 years experience, offers the world's most comprehensive line of EW Radar and SatCom traveling wave tubes for virtually every application, frequency, and power requirement CPI builds a tube!

Interested engineers should contact:

CPI
Employment Dept. O
PO Box 51110
Palo Alto CA 94303-1110
Fax (415) 856-8047