

APRIL 1995

YOU CAN'T SUGAR COAT A REQUEST FOR "FREE" MONEY

By Don Moseman, Chairman

If you've been reading the messages I've written in our monthly newsletter the past 6 months, then you've figured out that I don't exactly sidestep or tip-toe around ticklish subjects! Life would be...so much less complicated if we could just.....say what's on our mind.....get things out on the table.....so without any further hesitation:

"Please find it within your heart to donate your local section, the student fund, or the Farbar fund as shown within this newsletter."

HOW WILL WE USE YOUR DONATION?

I can guarantee you based upon several years of personal experience that your money will be wisely spent.

Local Section: Your donations to the local section will be used to finance events for unemployed members and to defray costs for monthly dinner meetings and our section newsletter.

Farbar Fund: Those of you wishing to donate to the Farbar fund will be comforted to know that for the last several years, your donations have been awarded to outstanding mechanical engineering students from U.C. Berkeley, California Maritime Academy, and San Francisco State University.

Student Fund: For the student fund, your donations will be used for a combination of supporting student human powered vehicle teams, student professional awareness conferences, and defraying student meal costs for local dinner meetings.

CONTINUED ON NEXT PAGE

NEXT DINNER MEETING

"How to Design Products with Composite Materials"

Dr. Clem Hiel

Expert in the Design and Application of Composite Materials
NASA Ames Research Center

Interested in the highest in materials technology of today? If you answer "Yes," then you will want to come to this month's ASME dinner meeting and hear Dr. Hiel talk about the latest in composite material design and application. Some exciting examples of the use of composite materials include human powered flight (i.e. the Gossamer Condor) and Voyager's non-stop flight around the world. Dr. Hiel's talk will begin with a short discussion and a live demonstration of the key factors which set the behavior of composite materials apart from everything else. The main theme of the talk will be to provide five practical examples on how to design general down-to-earth products with composite materials. Dr. Hiel will conclude his talk with a discussion of the reasons why the Australia II racing boat, made of carbon fiber composite, recently broke in half and sank off the coast of San Diego.

Dr. Hiel is an expert on the analysis, testing, and design of products made out of composite materials. In addition to his responsibilities at Sverdrup Technology Inc./NASA Ames Research Center, Dr. Hiel lectures on composite materials at San Francisco State University.

Date: Tuesday
April 25, 1995

Time: 6:00 PM Social Hour
7:00 PM Dinner
8:00 PM Program

Location: Seven Hills Center
San Francisco State University
1600 Holloway Ave., SF

Cost: \$20 ASME Members
\$10 Student Members
\$22 Non-Members
\$12 Student Non-members

Dinner: Beef Stroganoff or
Chicken Monterey

—FOR DIRECTIONS/PARKING SEE BACK COVER —

RSVP: Call S.F. ASME at (415) 721-4478 by Friday, April 21, 1995.

In This Issue...

Letter to the Editor
Job Hunting Seminar
Computational Fluid Dynamics Seminar

ASME TO PRESENT A JOB HUNTING SEMINAR

Sponsored by the ASME Mt. Diablo Section

A job hunting seminar for ASME members and students who are looking for work in the field of engineering will be presented in Pleasant Hill, CA. This seminar will provide participants with job search, resume, cover letter, and job interview tips.

The seminar will be conducted by Mr. Lynden Davis, P.E., Director of the ASME Western Regional Office, who has devoted increasing amounts of time supporting members in their job hunting efforts.

The Seminar will be held on Wednesday and Thursday evenings, April 19 & 20, from 7:00pm to 10:00pm at the Diablo Valley College, 321 Golf Club Road, Pleasant Hill, CA. You MUST register in advance to be assured of receiving the workbook. Participants are encouraged to bring their resume for the regional office data bank. Call the Western Regional Office at 800-624-9002 to register. A confirmation with details on the location of the seminar will be sent to those who sign up. There will be no charge for the seminar. Space is limited to the 1st 25 who register.

Computational Fluid Dynamics "Practical and Cost Effective Applications"

Presenter: Mr. Jonathan M. Berkoe
Location: Bechtel Corporation
50 Beale Street
2nd Floor, Conf. Room 3

Date: Tuesday, May 9, 1995
Time: 6:15 P.M. to 8:00 P.M.

RSVP: Tour limited to 25. Please call soon as this one will sell out fast! Call Don Moseman at (415) 358-9017 by Monday, May 8, 1995 so that your name may be added to the security clearance list.

I must confess that, until Jon Berkoe opened my eyes to the many "practical" and "cost-effective" applications of CFD, I thought CFD was a theoretical tool used primarily to study phenomena such as turbulent flow in pipe.

What he showed me in a matter of one hour was a half dozen specific, very real and practical design issues on "THE" project I was working on which have led to easily discernible improvements in cost and design. What was even more profound was the "visual" capability of this software tool. It not only provides color coded images of the flow phenomena you're modeling, but can show the model in real time moving flow streams! Some of the many "practical" problems Mr. Berkoe has worked on for Bechtel include:

- Electrowinning Tankhouse Ventilation Design (Mining & Metals)
- Coal Plant Duct Gas Treatment System (Fossil Power)
- Smelter Furnace Emissions Control (HVAC)
- Contaminant Transport Around Buildings (Environmental)
- Fluidized Bed Vessel Design (Chemical / Process)
- Nuclear Reactor Heat Transfer (Nuclear)

Mr. Berkoe will provide insights into how CFD can provide a vital and cost-effective process simulation tool for challenging engineering problems involving fluid flow and heat / mass transfer.

We know you don't want to miss this thrilling presentation and we look forward to seeing you all there.

CONTINUED FROM FRONT PAGE

Can I really afford to donate?

Of course you can! It's easy when you think of who you're helping. Besides, we don't expect a lavish donation, though we certainly wouldn't refuse one either. I know that many of you are strapped for time and overburdened with responsibilities. Otherwise I am confident that you would participate in one way or another. Perhaps you would attend our monthly dinner meetings, or the tours we've arranged. Maybe you would be a part of more than two dozen volunteers we have serving on local committees. Maybe you just don't have time to do any of this! Well, here's your opportunity to help in some small way. We sincerely appreciate any donation you can afford.

Is it tax deductible?

Of course it is. ASME is a 501(c)(3) non-profit organization which entitles you to take your donations as a tax deduction on schedule A of your IRS form 1040. But you must request from us a receipt for your donation. The IRS does not accept canceled checks as proof of donation!

Thank you so much in advance for your generosity.

Sincerely,
Don Moseman

Annual Section Dues Donation

It is time once again for the annual dues donation. Each year, the San Francisco Section collects a dues donation to aid with the daily operation of the section. Additionally, you may choose to add an additional donation to support the section's student related activities. Please check the appropriate items below. Your generous support is sincerely appreciated.

Annual Dues Donation	\$10	\$20	\$30	Other
Student Fund	\$10	\$20	\$30	Other
Farbar Fund	\$10	\$20	\$30	Other

Total Enclosed \$ _____

Return in a sealed envelope to:
San Francisco ASME
4 Embarcadero Center, Suite 5102
San Francisco, CA 94111

Make checks payable to: ASME San Francisco Section

LETTER TO THE EDITOR

Dear Editor:

Hear, hear, to Ross C. Wilkinson's letter to the editor in the March issue of The Bay Connection. Wilkinson challenged the expression of a biased political point of view expressed in the section newsletter by our chairman, Don Moseman. Moseman did nothing to hide his contempt for the changes being put forth by the Republicans in Congress. Rather than simply letting Wilkinson's letter be printed without comment Moseman wrote a reply; it is that reply which I want to address.

Moseman feels "ASME needs to maintain a more aggressive posture... in politics...", he went on to say, "politics and technology policy are inseparable." Moseman implied Wilkinson disagreed with that position even though that was never stated in the letter to the editor. Wilkinson was objecting to the blatantly political and "childishly" belittling attack on the Republicans in Congress using an elected office as his pulpit.

Moseman went on to say, "his (Wilkinson's) position regarding ASME's political involvement in the extreme minority." The seventh canon in the ASME Code of Ethics states, "Engineers shall issue public statements only in an objective and truthful manner." The statements contained in January President's Message were certainly not objective. One would also have to ask how he determined whose opinion is in the extreme minority. This does not sound like an objective statement.

Sincerely,
Davis L. Todhunter
Member, ASME

CHAIR'S REBUTTAL

"January Chair's Message"

Let me start by offering my sincere apologies to any members I offended with my scathing attack on certain key republican figures in my January Newsletter message. At this point, I strongly encourage any member reading this rebuttal to re-read my January message.

It is my opinion that I used some language in reference to Republicans Gingrich, Dole, and Helms (e.g. puke) which tended to upset certain local members. It is my belief that if I had been more eloquent in my criticisms, that neither Mr. Todhunter nor Mr. Wilkinson would have responded in the manner that they did.

However, my January message was very specific in the criticisms of the Republican "Contract with America" and that they were not wholesale! For example, I wholeheartedly support a stronger national defense (which I stated in my January Newsletter), I wholeheartedly support amendment, and a "real" line item veto (both not stated in my January message), all strong points of the "Contract with America." I applaud the Republicans for their effort and for a handful of their initiatives. I scolded them for some of the inane statements they made regarding the wholesale elimination of various technical agencies (e.g. Office of Technology Assessment and the Department of Energy) and our President, respectively (e.g. the ill-conceived statements Mr. Helms made regarding Mr. Clinton bringing a body guard when he visits North Carolina). This is not to say that I believe the subject agencies are pristine. There is room for improvement.

At our last dinner meeting, I pointed out to Mr. Todhunter that I had also received about half a dozen very positive responses regarding the January message. Mr. Todhunter subsequently, and correctly, stated that this was immaterial as the message was divisive. I agree with him. It is most definitely not my intention to create division when what we need most is the participation of all members in a non-hostile environment. I can now see that this was poor judgment on my part. Hey! I never claimed to be perfect.

I have interacted with Mr. Todhunter many times in the past as he has been an active participant in section activities. I sincerely respect his opinion and hope that my comments will not dampen his desire to participate. I sincerely respect his opinion and hope that my comments will not dampen his desire to participate. It also became clear to me that he has much to offer the local section. He obviously cares very passionately about this issue.

I would like to take this opportunity to extend a personal invitation to Mr. Todhunter, Mr. Wilkinson, and any other member who feels they can make a contribution, to submit their name to Bill Nott, our nominating committee chairman (510) 881-5035) for our upcoming May election for positions of Chair, Vice Chair, Secretary, and Treasurer. Volunteers may also participate on numerous other non-elected committee positions. Please call me with any questions on non-elected positions ((415) 358-9017).

Hopefully the last "January Message" rebuttal,
Don Moseman

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SFSU DIRECTIONS and PARKING

The April Dinner meeting will be held at the Seven Hills Center located in the San Francisco State University Campus. (see circle on map) parking is available (see arrows) along Font Blvd. (free) or in the parking garage on campus (must pay).

ADVERTISERS:

Do you want to reach out to over 1700 mechanical engineers? Advertising in this newsletter is an excellent way to do this! Display ads can be purchased at reasonable prices; call 510-664-0102 for more information.

The Bay Connection welcomes letters to the editor and editorials from our membership! Please contact Johnny Wu, newsletter editor, (see fax, phone numbers on page 3 sidebar) for submissions.

Frank Diaz
B.S., Mechanical Engr., Jan 1994
San Francisco State University
Good ME with E.I.T., seeking entry level position
Please call 510-654-4009