



ASME International

SAN DIEGO SECTION

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
SAN DIEGO SECTION MONTHLY NEWSLETTER
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25-Year and 50-Year Member Recognition and Student Presentation Night

June 7, 2000

Giovanni's Italian Restaurant, 9353 Clairmont Mesa Blvd.

5:30 p.m. Check-in & View Poster Presentation

6:00 p.m. Program

Please join your ASME colleagues at Giovanni's Italian restaurant for our annual Awards Banquet. This event is held to honor our 25 and 50 year ASME members for their many years of continued support, as well as local school students for their achievements in science and engineering projects. These students were selected for the awards for their engineering projects by ASME judges at the Greater San Diego Engineering and Science Fair, held on April 12th.

Our high school winner this year is senior Brian Fulkerson who has designed and built an underwater ROV, or remotely operated vehicle. This unit included buoyancy controls, directional motors, power supplies, control amps, video camera and lighting. Brian's vehicle is designed to operate at depths up to 150 feet deep. The Junior High School winner is Christian Longo, who designed, built, and tested a flight simulator to study the effects of wing and tail aileron adjustments to model aircraft. ASME congratulates both of our Science and Engineering Fair Winners.

We will also be hosting a presentation on **Analysis and Acquisition of Digital Data, presented by David Hall**. Digital technology and digital signal processing have allowed scientists and engineers to do things that were not possible several years ago. In this presentation, we will look at an actual example of digital data acquisition and discuss what was necessary to acquire the data and also what is necessary to analyze the data. For more information about our interesting speaker, just turn to page 3.

Please join us for this lively and entertaining event. I hope to see many of you who have participated on some of our recent tours like Disneyland and Nissan Design. I will be looking for you!! RSVP: Baskar kanakhab@asme.org (858) 792-3138

Dinner Menu at Giovanni's:

- Pizza
 - Spaghetti with marinara
 - Lasagna with meat sauce
- Plus a healthy salad...

All this for only **\$9.50**

Directions:

From Hwy. 163...

- Exit on Clairmont Mesa, and go East.
- From I-15...
- Exit on Clairmont Mesa, and go West.

Giovanni's is on the Southwest corner of Clairmont Mesa and Ruffin Road.

UPDATE !!!

Human Powered Submarine (HPS) Competition 2000.

The organizing of the human powered submarine races for this summer is progressing better than anticipated. To date, a total of seven university teams have registered their subs for the competition, and we are getting more inquiries every week. We are continuing to seek out financial sponsors, and finalizing the necessary arrangements for the participants. The HPS 2000 is a one-of-a-kind submarine race and design contest for all engineering students to be held July 20-23, 2000.

The organizations financially sponsoring us include the ASME San Diego Section, ASME Region IX, IEEE San Diego Section, IEEE Offshore Engineering Society, Hewlett Packard, Orincon, and HNC Software. Nip Shah is preparing an impressive publicity effort which should interest further sponsors. If you're interested, please contact Nip at nip.shah@hs.utc.com.

In order to increase our exposure to engineers and the general public, we have secured a prominent booth at the upcoming Del Mar Electronics Fair. The event will be held at the Del Mar Fairgrounds on May 3rd and 4th. With the help of HPS co-sponsors, IEEE, we should be able to show all the attendees what they can expect from this exciting competition. We will have a actual sub at the fair for people to examine, plus plenty of information on sponsorship and attendance. For more information, please contact Dan Bedore at: daniel.bedore@hs.utc.com.

You are of course also invited to attend the races in July. Also, please check out our website at www.members.tripod.com/asme_sd.

We hope to see you at the Fair!!!

ENGINEERING STUDENTS TO RESEARCH INTERACTION BETWEEN ENGINEERING AND PUBLIC POLICY

ASME will sponsor Mauricio R. Gutierrez of Rockville, Maryland and Kelly Goodyear of Beaumont, Texas for the Washington Internship for Students of Engineering (WISE) Program this summer. During their internships, Gutierrez will examine issues relating to technology transfer, and Goodyear will explore public policy surrounding the space program.

The WISE program provides engineering students from across the country with an opportunity to spend their summer in Washington D.C. to learn about the processes and institutions that shape technology policy-making. WISE students research and write policy recommendations to their sponsoring engineering societies on technology issues affected by federal legislation. Formal instruction is complemented with visits to Congress, federal agencies and non-governmental organizations involved in the policy-making process.

For application and deadline information on the WISE 2001 program, you can visit WISE's website at: <http://www.wise-intern.org/>

ASME members are invited to participate in our online Public Policy Agenda Survey for 2001-2002. The survey is available online at: <http://www.asme.org/gric/2000/Survey.html>

For more information, you can contact Kathryn Holmes, Public Affairs Communications Specialist at ASME International using the following information:

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Do you have the COOLEST job in town???

Are you doing something interesting, different, or unique at work? Do you spend your days developing new products or creating new technology? Will your work today become the hot new technology of the next decade?? If this sound like youTELL US ABOUT IT !!!

San Diego ASME is always looking for members at local companies who would like to share some of their knowledge and experience in various engineering disciplines. This can often lead to exciting program meetings about new technologies or perhaps a interesting tour of your company so that your fellow ASME members can see what you are working on.

Some example of recent tours include Kyocera and the new high-tech Water Reclamation plant. Programs we have done in the past include Streak Visualization, a new method of compressing video information and time together on a single two-dimensional media. I personally attended these events and was very impressed with the knowledge of our hosts and speakers, as well as the interesting topics that were addressed.

I urge you to consider hosting a group of ASME members for a tour of your company. Or even spend a quiet evening with us discussing your recent work with some of your interested colleagues. If this sounds appealing to you, please contact Nip Shah at nshah@mail.rkd.snds.com

I look forward to seeing what our members are working on...

Thank you,

Eric A. Ostrowski

ASME ISSUES RECOMMENDATIONS TO STRENGTHEN K-12 SCIENCE, MATH, ENGINEERING, TECHNOLOGY EDUCATION.

ASME has released a general position paper calling for improved pre-college science, math, engineering and technological (SMET) education. The statement discusses the need to develop a technologically capable workforce that can compete in the global economy, and the need for more emphasis to be placed on pre-college SMET education. ASME's recommendations for improving K-12 SMET education performance include:

1. Increase federally funded research focused on SMET teaching and learning to cultivate the most effective teaching methods.
2. Recruit, train, and retain qualified SMET teachers to meet demand.
3. Foster partnerships among educational institutions, industry and non-profit organizations.
4. Encourage the adoption of curriculum standards that cultivate high student performance, the development of curricula that fosters creativity, experiential problem-solving and critical thinking, and the development of assessments aligned with these standards and curricula.
5. Encourage women and minorities to pursue SMET coursework and careers.

The ASME general position paper (#00-08) is available to review online at: <http://www.asme.org/gric/ps00.html>
The paper will be sent to the Administration, Members of Congress, and State Legislatures.

ASME members listed education as a high priority in the recent Public Policy Agenda and it was selected as a high priority in the Pre-Survey for the 2001-2002 Public Policy Agenda. Members interested in participating in our online Public Policy Agenda (through June 8th) can do so at: <http://www.asme.org/gric/2000/Survey.html>

ASME will join other societies to sponsor a Congressional briefing on K-12 SMET Education on April 13th. Members of ASME's Industry Advisory Board (IAB) will also participate in the briefing, exploring new avenues for improving SMET skills and to discuss technological literacy.

Some Interesting Background on Our Speaker, David Hall:

David P. Hall holds a Bachelor and Master's degree in Mechanical Engineering from Widener University in Chester, Pennsylvania. He has over 30 years of professional experience in both government and industry. His background includes testing, design, analysis, project coordination, and management.

Currently, he is employed as a Senior Mechanical Engineer at the Amphibious Vehicle Test Branch at Camp Pendleton, California. Dave is a Registered Professional Engineer in New Jersey and California. He is also the President of Western Sun Engineering and Consulting, a consulting company that helps other companies resolve engineering, human resources, and environmental issues.

Dave is the inventor of a quiet ice scraper for submarine antenna masts and an improved DNA tester. He has published several articles on engineering, including "Experimental Determination of Moment of Inertia". An FAA licensed pilot, he flies for business, pleasure, and for Angel Flight, an organization that provides free air transport for people who need medical treatment.

Dave is also a Boy Scout Merit Badge Counselor for Engineering and Aviation.

Looking Ahead...

- April 28-30, 2000
ASME Regional
Administrative Conference.
Las Vegas, NV.
- June 7, 2000
ASME Awards Banquet,
and "Acquisition and
Analysis of Digital Data."
by David P. Hall.
- June 10, 2000
Callaway Vineyard and
Winery. Tour and lunch.
- July 20-23, 2000
Human Powered
Submarine Competition.
Escondido, CA.

Callaway Winery Tour and Tasting!

Saturday, June 10th at Callaway Vineyard & Winery, Temecula, CA.

The ASME San Diego section is once again proud to join the Cal Inland section for this exciting weekend event. This will be a relaxing and interesting tour for anyone who enjoys good food, great wine, and spectacular views.

- 10:00 am: Private tour of Callaway's modern vineyard, wine cellar, and bottling facility. Including a sit down tasting of five Callaway wines.
- 12:00 pm: Lunch served with a glass of wine in the grape arbor with a beautiful view overlooking the vineyard.
- Cost: \$20.00 Members and Guests. \$10.00 ASME Students (over 20 yrs. only).
- This price includes your lunch, souvenir wine glass, and 20% off purchases in the wine shop.

Callaway Vineyard and Winery: Exit I15 in Temecula on Rancho California Rd. Drive four miles east to 32720 Rancho California Rd. on the left hand side.

Please RSVP **before June 1** by sending your name(s), phone, e-mail, and check to: Warren Stobaugh, 902 Banyan Dr. Redlands, CA 92373. (909) 793-1054

Do you find yourself missing the warm and informative content of the AMSE SD Newsletter at the end of the month??? So do I !!!

To help me get through these difficult times, I often turn to the ASME Web page where I can find newly updated information all the time! No need to wait all month for the hard copy. Join the Internet revolution and use the ASME web page as your gateway to all things ASME. Simply bookmark the ASME site, which can be found at: **http://members.tripod.com/ASME_SD** and check it out weekly for updates on programs, tours, local events and University Engineering competitions (you remember college, don't you???). You will find that your San Diego ASME board is working hard to make this chapter a useful and informative tool for our members. Please support our efforts by using the web site as often as you can. Thank you, Eric A. Ostrowski, Editor.



ASME International

The American Society of Mechanical Engineers
San Diego Section Newsletter
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Article C5.1.2

The following has been quoted from the constitution of the American Society of Mechanical Engineers, revised to October 1981:

C5.1.2: The provisions of the Constitution, and Bylaws and Policies and Procedures established by the Board of Governors of the Society shall govern the procedure of all components of the society but no action or obligation of such components shall be considered an action or obligation of the society as a whole. The provision shall be imprinted on any publication issued by such components.

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