



**ASME International**

San Diego Section  
American Society of Mechanical Engineers

# Newsletter

VOLUME 10 No. 1

AUGUST 2003

[www.asme.org/sections/sd](http://www.asme.org/sections/sd)

## FUEL CELL APPLICATION IN VEHICLES

With recent controversy concerning SUV gas mileage and the US's continued oil dependency, more and more expectation is placed on fuel cell vehicles to provide energy and environmental solutions. Mr. Terrence Mack of Hamilton

Sundstrand (formerly with Excelsis) will present a discussion on the application of fuel cells in automobiles. Please join us to discover the potential of fuel cells in the immediate future.

### DETAILS, DETAILS

<b>What:</b>	Dinner Meeting: Application of Fuel Cells in Vehicles
<b>When:</b>	Thursday, August 21, 2003, 6:30 pm
<b>Where:</b>	Giovanni's, southwest corner of Clairemont Mesa Blvd and Ruffin Rd
<b>Cost:</b>	\$5 for members and students, \$10 for others
<b>Contact:</b>	York Lew, <a href="mailto:lewy@asme.org">lewy@asme.org</a> or (w) 619-696-2946
<b>RSVP:</b>	by Monday, August 18, 5 pm
<b>Menu:</b>	Pizza Buffet (incl. salad and soft drinks)

---

## Oceans 2003 Marine Technology and Ocean Science Conference

More than 800 technical presentations, 17 tutorials, and 200 exhibitors are taking this year's OCEANS 2003 MTS/IEEE conference and exhibition to new heights. This international event, which combines with the Centennial celebration of Scripps Institution of Oceanography and is joined by 17 participating societies and institutions, is being held at the Town and Country Convention Center and Hotel from September 22-26, 2003.

The three day technical program, which includes 2500 co-authors representing over 40 countries, introduced by 200 co-chairs, will be highlighted by Thursday's Keynote Session featuring Admiral James Watkins, Chair, President's Commission on Ocean Policy and The Honorable Leon Panetta, Chair, Pew Oceans Commission.

Additional information on all of the above topics, including the Advance Program, can be obtained by visiting the conference website at [www.oceans2003.org](http://www.oceans2003.org).

ASME members are eligible for a reduced conference rate.

## Message from the Chair

We have a number of things planned this year. One event has become something of an ASME-SD signature event: the Water Rocket Launch next April. There are interesting dinner meetings with topics that I feel are current and local in context: Fuel Cells, Desalinization, Nuclear Power, and Biotechnology for example. We have some good tour opportunities relating to the dinner meeting topics. I would like to start an ASME Historic Landmark activity. One suggested landmark is the Palomar Observatory. There may be others that are worth pursuing. For the student sections, we are planning mentor nights which are also somewhat of a signature event. There have been discussions for ASME sponsored senior design projects as well. See the calendar of events for details. Please join us at these upcoming events and add your perspectives and experience to the discussions. I look forward to meeting you.

David Padgett, 2003-04 Chair, Past Treasurer

---

## Palomar Observatory as Historical Landmark?

Artifacts, sites, and collections of historic importance to mechanical engineering are designated Landmarks by ASME International through its History and Heritage Program. Landmark status indicates that the artifact, site, or collection represents a significant step forward in the evolution of mechanical engineering and is the best known example of its kind. A plaque is presented for display, a commemorative brochure is prepared, and a roster is kept to promote long-term recognition and preservation efforts

Anyone interested in being part of a committee to investigate landmark items (e.g., the Palomar Observatory) in the San Diego Section area should contact David Padgett at [sandiego@asme.org](mailto:sandiego@asme.org). For a list of Historical Landmarks in Region IX (California, Nevada, and Hawaii), go to <http://www.asme.org/history/regrost9.html>.

---

### College Student News

#### UCSD HPV

This past quarter the UCSD student section has re-started a Human-Powered Vehicle (HPV) Team, and is hoping to compete in the next HPV competition. The team, headed by David Wiens, has begun initial design of the vehicle and will be working throughout the summer continuing design and will begin analysis and construction. Hopefully by the start of the next school year, the design will be finalized and construction can begin.

#### UCSD Senior Design Project Presentation

Eight mechanical engineering project presentations were given Friday June 13 by the spring quarter class. These presentations described the design process and final solutions the teams arrived at for their respective projects. Many interesting solutions were achieved. ASME member David Padgett helped judge the presentations.

#### USD

The University of San Diego is creating a Mechanical Engineering program starting this fall.

## Election Results

David Padgett was elected as the Chair, Katherine Flores as the Vice Chair, Tom Frankie as the Treasurer, Bryan Archibald as the Secretary, and as Directors for the term of 2003-2005, Eric Ostrowski, Nip Shah, and Phil Young. Thank you to those who voted. (Note: Due to personal circumstances, Bryan Archibald will not be able to assume the office of Secretary and he resigned from that office.)

## Patent 101 Meeting Report

32 members and guests attended the Patent 101 presentation by Mr. Stephen Reiter on June 5. He was informative without speaking in legalese. He was able to answer many questions and was well received. We thank Mr. Reiter for taking the time to be with us.

## Water Voucher Incentive Program

Did you know that many water agencies in San Diego County participate in a voucher program for water conservation measures for Commercial / Industrial / Institutional customers? One program that qualifies for a \$500 voucher discount is the installation of cooling tower conductivity controllers or replacement of defective or inefficient ones. Vouchers are similar to grocery coupons; they must be presented at the time of equipment purchase. To request a voucher or for more information, call the Voucher Processing Center at 800-986-4538. Information on other commercial, residential, or personal incentives are also available.

## Help Wanted

Hey, members, can you spare

- 2 to 3 hours per month for about 9 months, or
- 2 to 3 hours per month for about 3 months, or
- 2 to 3 hours per 9 months?

That is all it takes for you to make a difference in the lives of our members and students. Our Section has needs for several specific assignments and for various committees (see box at right). If you are willing (if there is a will, there is a way) to help, please contact David Padgett (see box at right). Thank you.

## LINKS

Here are several useful websites for ASME-San Diego Section members:

ASME San Diego Section: [www.asme.org/sections/sd](http://www.asme.org/sections/sd)

ASME Region IX (California, Nevada, and Hawaii): [www.asme.org/regions/regionix](http://www.asme.org/regions/regionix)

ASME Western Field Office (Regions VIII, IX, and XII): [www.asme.org/regions/wro](http://www.asme.org/regions/wro)

ASME International: [www.asme.org](http://www.asme.org)

### San Diego Section Contacts:

Chair:

**David Padgett**  
760-930-3332  
[dpadgett@asymtek.com](mailto:dpadgett@asymtek.com)

Vice Chair:

**Katherine Flores**  
858-513-8163  
[KFlores@TecateGroup.com](mailto:KFlores@TecateGroup.com)

Treasurer:

**Tom Frankie**  
760-481-1785  
[tfrankie@tms.net](mailto:tfrankie@tms.net)

Secretary:

**Vacant**

Immediate Past Chair:

**York Lew**  
619-696-2946  
[lewy@asme.org](mailto:lewy@asme.org)

College Relations:

**Nip Shah**  
858-627-6251  
[nip.shah@hs.utc.com](mailto:nip.shah@hs.utc.com)

Government Relations:

**Bob Batten**  
[bobatten@sdccu.net](mailto:bobatten@sdccu.net)

Newsletter Editor:

**York Lew**  
see above

Web Master:

**York Lew**  
see above

Honors and Awards:

**David Hill**  
619-540-1778  
[davidhill@nctimes.net](mailto:davidhill@nctimes.net)

Directors (03-05):

**Phil Young**  
858-627-6376  
[youngp@asme.org](mailto:youngp@asme.org)

**Eric Ostrowski**

858-480-7219  
[nostromo35@cox.net](mailto:nostromo35@cox.net)

**Nip Shah**

see above

Open positions: Tours,  
Programs, K-12 Relations,  
Member Interests,  
Membership Development,  
Professional Development,  
Outreach and Diversity,  
Nomination, et al.



**ASME International**

The American Society of Mechanical Engineers  
San Diego Section Newsletter  
Editor  
8215 Thimble Ct  
San Diego CA 92129

NON-PROFIT ORG  
U.S. POSTAGE  
P A I D  
PERMIT NO. 1645  
SAN DIEGO, CA

**Article C5.1.2**

The following has been quoted from the constitution of the American Society of Mechanical Engineers, current as March 15, 2003:  
C5.1.2: 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.

**DATED MATERIAL**



Monthly Executive Committee Meetings are typically held on the first Wednesday of the month (except summer months) from 5:30 pm to 6:30 pm at the Hamilton Sundstrand office in Kearny Mesa. All members are invited to attend. Please do contact David Padgett at (w) 760-930-3332 or sandiego@asme.org, to confirm the date if you plan to attend or if you would like to address the Executive Committee (because the building is secured and because the agenda is typically tight to keep the meeting duration to one hour).

**2003-04 CALENDAR**

(Please check our website for updates.)

Aug 21	Fuel Cells – Application in Automobiles, Mr. Terrence Mack
Aug xx	Tour of Taylor Guitars
Sep xx / Jan xx	Visit 1 <sup>st</sup> Year Engineering Classes at UCSD/SDSU
Sep 22-26	Oceans 2003
Oct 15	Desalinization – A Viable Option for Water Supply, Mr. Peter MacLaggan, Poseidon Resources Group
Oct 17	Tour of desalinization demonstration project, Cabrillo Power Plant, Carlsbad
Oct xx	Dinner with local university staff to discuss issues and student activities
Nov xx	Legoland or Sea World or other Family Day
Nov xx / Feb xx	Mentoring Night at SDSU/UCSD
Dec 10	Decommissioning of San Onofre Unit 1
Dec 12	Tour of San Onofre Unit 1
Jan xx	Tour of Delimex
Feb 18	Nuvasive – Creative Spine Technology, Jason Blain, Manager of Implant Systems Development
Mar xx	Tour of Calloway Golf
Apr xx	Dinner Meeting TBD
Apr 24	Water Rocket Launch Family Day
Apr xx	Judging of Science Fair Projects, University Student Paper Contest
May 21	Annual Awards Banquet