



We at ASME San Diego want to hear from you. Do you have an idea for a program you think ASME should address? Or how you think we can serve better? Email us at [sandiego.asme@gmail.com](mailto:sandiego.asme@gmail.com)

## Chair's Message to the Membership



I was excited to join IEEE's tour of SDG&E's Borrego Springs Microgrid last month. I'd been wondering what kind of technologies they were using and it's been a while since I drove out to the desert.

Borrego Springs made a great location for the microgrid. They have one power line into town, and it goes down more than anyone would like. I was surprised to learn the microgrid doesn't do that much to keep the lights on when that line does go down - to keep things safe power can't be restored until the cause of the fault is known. Once the fault is found and isolated the microgrid can bring things online again more quickly.

Power wise the biggest deal is the solar farm. With clouds overhead or at night the town draws 13MW from across the mountains. With the sun shining 'Borrego Solar One' makes 26MW - enough to power the town and feed the normal current backwards toward San Diego.

We also saw the diesel generators, two sets of batteries, and the street side transformer / power packs.

The desert had one surprise for me - rain! It was actually quite pretty, especially when the sun came out on the way back. I took full advantage of great aerodynamics and put my convertible top down when driving in and out. The wind whipped the rain around the cabin and I didn't even get wet! I just wish I'd gotten the hot chocolate at lunch to keep me warm.

## Keep Reading For:

### Upcoming Events:

National Engineers Week, San Diego Awards Banquet, Friday, February 28, 2014

Mentoring Night at SDSU, Thursday, March 6, 2014, 6:30 pm

ASME Energy Forum: Shale Development and Hydraulic Fracturing, March 17-19, 2014, held in San Diego.

### Informational Items (No endorsement is expressed nor implied)

San Diego Solid Works Users Group

ASM International Event

# National Engineers Week—San Diego 2014 Awards Banquet

**Friday, February 28, 2014, 6:00–9:30pm**

The Forum at Hahn University Center

University of San Diego Campus

5998 Alcalá Park, San Diego, CA 92110

(Free parking in any student or faculty lot after 5pm)

NEW 2013 THEME: LET'S MAKE A DIFFERENCE

## Keynote Speaker



Dr. Todd P. Coleman received his BS degrees in electrical engineering and computer engineering from University of Michigan in 2000. He received his MS and PhD degrees in electrical engineering from Massachusetts Institute of Technology (MIT) in 2002 and 2005. During the 2005-2006 academic year, he was a postdoctoral scholar at MIT and Massachusetts General Hospital in computational neuroscience. From Fall 2006 until June 2011 he was an Assistant Professor of Electrical & Computer Engineering and Neuroscience at University of Illinois. Since July 2011 he has been an Associate Professor in the Bioengineering Department of University of California, San Diego.

His research goals include using information theory, neuroscience, machine learning, and bioelectronics to understand—and control—interacting systems with biological and computer parts. Coleman, a National Science Foundation (NSF) Graduate Research Fellowship recipient, was awarded University of Michigan College of Engineering's Senior Class Prize and was awarded MIT EECS Department's M. J. Levin Award for Best Masterworks Oral Thesis Presentation. In Fall 2008 he was a co-recipient of University of Illinois College of Engineering's Grainger Award in Emerging Technologies for development of a novel, practical timing-based technology. Since Fall 2009 Coleman has served as a co-Principal Investigator on a 5-year NSF IGERT interdisciplinary training grant for graduate students, titled "Neuro-engineering: A Unified Educational Program for Systems Engineering and Neuroscience." He was a Fellow with the University of Illinois Center for Advanced Study for 2010-2011.

### Schedule:

6:00-7:00 pm: No Host Reception at The Forum  
7:00 pm: Banquet at the Forum  
8:00-8:30 pm: Awards Presentations  
8:30-9:15 pm: Keynote Speaker

Dinner includes one drink (soda, beer, wine, or mixed drink), Salad, Vegetables, Bread, Dessert, Coffee/Iced Tea/Water, and Choice of Entrée—Chicken, or Salmon, or Vegetarian.

Cost is \$40 per person by February 6 or \$45 after.

### RSVP:

Phil Young, 1328 Emerald St, San Diego, CA 92109, [youngp@asme.org](mailto:youngp@asme.org)

Make check payable to: ASME-San Diego Section

Please include your name, phone number, email address, and entrée selection.

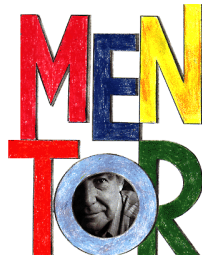
DISCOVER



ENGINEERS WEEK

FEBRUARY 16-22, 2014

# WHO WANTS TO BE A ?



SAN DIEGO STATE  
UNIVERSITY

A mentoring night for SDSU engineering students will be held on Thursday, March 6, 2014, from 6:30 to about 8:30 pm at SDSU. The event allows engineering students to talk with experienced engineers on a more personal level on career advices, insights, and real world information.

The schedule is as follows:

- 6:30 Meet and greet students over pizza and soft drinks (provided).
- 7:00 Presentations begin. Each mentor will have the stage for three to five minutes.
- 7:30 Finish presentations and send mentors to separate tables for specific questioning from interested students.
- 8:30 Final comments and end of program.

If you are interested in talking to the students, please contact Casey Krawiec, [krawiec33@sbcglobal.net](mailto:krawiec33@sbcglobal.net), 858-703-7333. Room location and parking details will be provided to volunteers.

**Mentoring**  
Be a Mentor...Be the Difference





**ASME ENERGY  
FORUM**  
LIVE  
Oil&Gas

# Shale Development and Hydraulic Fracturing

*Capturing Unconventional Opportunities*

**March 17-19, 2014**

**San Diego Convention Center,  
San Diego, CA**

In its debut year, ASME's Shale Development and Hydraulic Fracturing conference will focus on shale development and hydraulic fracturing for recovering natural gas and oil. Shale gas is projected to increase to 49% of U.S. gas production by 2035, up from 23% in 2010 – as it has already led the U.S. to become the world's leading natural-gas producer.

This ASME Energy Forum will bring together industry leaders in a conversation on technologies, applications, and solutions required for competing in this global marketplace. In particular, we will offer long-sought focus on the suppliers of hardware/equipment/function systems for both surface and subsurface facilities. The result will be a high-level, three-day conference program that highlights critical challenges and opportunities associated with shale exploration, development, and production.

Topics include:

- Shale Revolution and Global Energy Opportunities
- Taking Advantage of the Global Shale Revolution
- Enabling Technology: Hydraulic Fracturing
- Technological Excellence for Optimal Effectiveness and Efficiency
- Technologies for Completion and Fracturing – Efficiency, Economics, and Optimization
- Production Enhancement: Artificial Lift and Re-Fracturing
- Technologies for Reducing Environmental Impacts
- Opportunities, Strategies, and Economics for Entering the Shale Play Market
- Water Management in Shale Plays
- Case Studies
- Environmentally Sustainable and Competitive Solutions

Visit <https://www.asme.org/events/asme-energy-forum/energy-forum-live-oil-gas> for more details and registration information. Early registration closes on January 31.



The following announcements are for information only. No endorsement is expressed nor implied.



The San Diego SolidWorks User Group's (<http://www.sdswug.org>) monthly meetings provide an easy way for SolidWorks users to exchange ideas, get answers to problems, and learn more about SolidWorks and its partner applications. Monthly meetings are held on the second Wednesday of each month at 7:00pm. Everyone is welcome. There are no dues. Just show up. The meetings are held at 11211 Sorrento Valley Road, Suites F & G, San Diego, 92121. Plan to arrive around 6:30pm and enjoy pizza and soft drinks courtesy of the sponsors. Mingle with the other users until the actual meeting starts.



**San Diego  
Chapter**

ASM Technical Meeting at UCSD  
Thursday, February 20, 2014 (tentative)

Michael Fahrman PhD  
Haynes Alloys

Visit the website for news and announcements.

<http://sandiego.asmeinternational.org/portal/site/sandiego/>

Questions: e-mail <mailto:asmsandiego@gmail.com>

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## University News

(Visit each student section's website for more details.)



<http://asme.sdsu.edu/>



<http://asme.ucsd.edu/>



<http://www.sandiego.edu/engineering/current/organizations/asme.php>

## Membership Benefit: ASME e-Library



The ASME e-Library is now known as WorkSmart. It is still powered by Knovel and has over 100 interactive volumes available free to ASME members. The library includes general reference volumes and detailed treatises, not only in Mechanical Engineering, but also in other disciplines.

Some titles include:

- PVC Pipe - Design and Installation
- Superalloys - A Technical Guide
- Wind Energy Handbook

To learn more, visit [go.asme.org/worksmart](http://go.asme.org/worksmart)



Monthly Executive Committee Meetings are usually held on the first Tuesdays (except summer months) from 5:30 to 6:30 pm at the Serra Mesa Branch of the City Library (9005 Aero Drive, San Diego, 92123). The meetings are open to the public and all members are invited to attend. Please contact Keith Frankie, [keithfrankie@asme.org](mailto:keithfrankie@asme.org), to confirm the date if you plan to attend or if you would like to address the Executive Committee.

## 2014 CALENDAR

(Please check our website for updates and more details.)

Feb 28	National Engineers Week--San Diego, Awards Banquet
Mar 6	Mentoring Night at SDSU
Mar 17-19	ASME Energy Forum -- Shale Development and Hydraulic Fracturing Conference, San Diego
Mar xx	Joint Activity with ASM International
Mar 26	Judging at the 60 <sup>th</sup> Greater San Diego Science and Engineering Fair
Apr 25	San Diego Section Awards Banquet

### San Diego Section 13-14 Contacts:

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Tours

**Open**

k-12 Program

**Nip Shah**  
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Other positions available.

**What is your interest?**

**Can you spare a few hours each YEAR?**

ASME Constitution Article 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.