



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)

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### Chair's Message to the Membership



Hello, ASME-San Diego, welcome to the start of another fiscal year. I look forward to serving you. A challenge that your group leadership team faces is getting more members involved. If you have any ideas, comments, criticisms in that regard, please send them my way at [sandiego.asme@gmail.com](mailto:sandiego.asme@gmail.com).

### Upcoming Events:

Mentor Night at USD, Wednesday, October 21, 2015

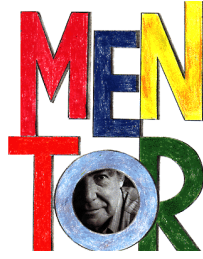
Tour of the General Atomics Magnet Technologies Center in Poway, Thursday, November 12, 2015

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

San Diego Solid Works Users Group

Onshape San Diego User Group

# WHO WANTS TO BE A ?



A mentoring night for USD engineering students is planned for Wednesday, October 21, 2015. It usually runs from 6:30 to about 8:30 pm. 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.



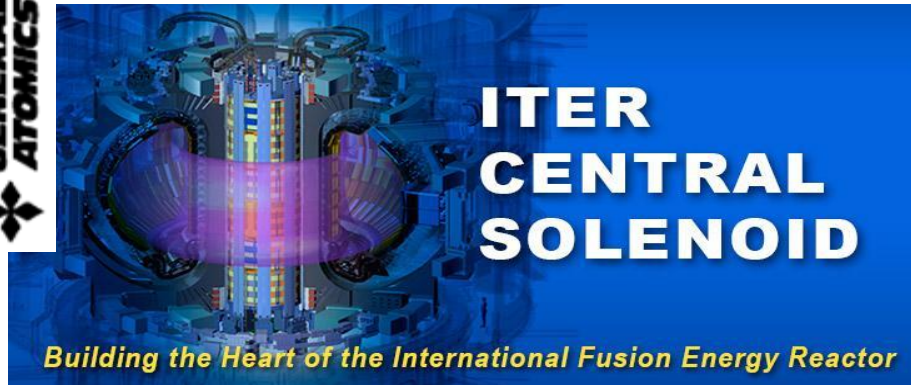


Image from GA Website



You are invited to attend a tour of the General Atomics Magnet Technologies Center in Poway on Thursday November 12, 2015 at 4:30 PM.

The tour will spotlight GA's fabrication progress on the ITER Central Solenoid. When completed, the Central Solenoid will be the largest and most powerful superconducting magnet of its kind providing the heartbeat of ITER (pronounced "eater"), a global scientific pursuit of fusion as a new clean power source.

ITER, currently being built in France, is considered to be a necessary step in making fusion energy a practical resource for the world as part of an unprecedented scientific partnership of 35 nations. Fusion will be an enormous source of pollution-free and carbon-free energy that could last for tens of thousands of years.

For the Central Solenoid, each of the seven modules being fabricated and tested at GA is capable of storing 1GJ (280 kWh) of energy with fields up to 13T. Starting with 900m long spools of special 50mm square stainless steel/Nb<sub>3</sub>Sn conductor, the coils are wound into layers, then joined together to form a single module, 4m in diameter and 2m tall, weighing 120 tons. The coils are heat treated in a furnace at 650C prior to being insulated with fiberglass and polyamide tapes. After potting in resin, the finished coils are cooled to 4K with liquid helium and tested at full current (50kA).

An overview presentation of the ITER program, the US contribution to ITER, and General Atomics role will be given before the tour. Prior reading by the attendees on the science, technology, collaboration and logistics of ITER, and nuclear fusion will certainly help! Recommended starting points include:

[GA-ITER website](#)   [ITER website](#)   [Wikipedia: ITER](#)   [KPBS](#)

Closed toe shoes are required (no flip-flops). US citizens and green card holders are welcome.

**Address:** 11906 Tech Center Court, Poway

**RSVP** by 10 PM on Thursday, November 5, 2015, online at <http://goo.gl/forms/GVP8XvktQK> or email [sandiego.asme@gmail.com](mailto:sandiego.asme@gmail.com) Space is limited--first come first served. Priority will be given in the following order: 1) ASME members, 2) Guests of members, and 3) Others.

An optional dinner at a local restaurant, [Company Pub and Kitchen](#), will follow the tour. Come along and socialize with fellow engineers!

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



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

The Oct 14 meeting will feature Fancisco Guzman on the power of Drive Works; the Nov 11 meeting Christopher Castle on Master Mold.



Onshape San Diego User Group Meeting

Tuesday, October 20, 2015, 6:00 PM to 8:30 PM  
San Diego Public Library, 330 Park Blvd

Joe Dunne is scheduled to present again some of Onshape's newest features as well as give a peek into what's coming up. Come prepared with lots questions and something to CAD on!

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

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## University News

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



[sdsuasme.weebly.com](http://sdsuasme.weebly.com)

Meet the officers and attend their events.



[asme.ucsd.edu](http://asme.ucsd.edu)



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

## Membership Benefit



ASME WorkSmart is now known as AccessEngineering which provides six times the knowledge and spans all engineering disciplines. AccessEngineering's 600+ titles include essential handbooks such as: Marks' Standard Handbook for Mechanical Engineers; Perry's Chemical Engineers' Handbook; Standard Handbook for Civil Engineers; Standard Handbook for Electrical Engineers, plus a variety of operations management titles (Six Sigma, etc.) to assist you with your engineering problems, research, and projects. Most titles come embedded with calculator tools, interactive graphs, and downloadable tables. And it is still FREE to ASME members.

To learn more, visit <http://accessengineeringlibrary.com/>

### Group Leadership Team Meetings



*The monthly meetings are usually held on the first Thursdays (except summer months) at the Ansir Innovation Center, 4685 Convoy St. #210, San Diego, 92111. The Ansir Innovation Center is a private company that provides affordable office space and a sense of community for startups in the San Diego area. They have generously offered free use of their nicely appointed facilities for our meetings.*

*All meetings are held from 5:30 to 6:30 pm and are open to the public. Members are encouraged to attend and get involved!*

## 2015-16 CALENDAR

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

11/5, 12/3, 1/7/16, 2/4, 3/3, 4/7, 5/5, 6/2	Group Leadership Team Meeting
Oct 21	Mentoring Night at USD
Nov 12	Tour of the General Atomics Magnet Technologies Center
Feb 26	National Engineers Week Banquet
Mar 23?	Judging at Science & Engineering Fair
Apr 22 or 29	San Diego Section Awards Banquet

### **San Diego Section 15-16 Contacts:**

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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.