

Tulsa-NEO SWE

Society of Women Engineers

Science of Art

If you attended “The Science of Art” lecture by Marie Moran at the University of Tulsa, you can look at an optical illusion and see why your eyes are playing tricks on you.

Guests at the talk found that engineering, science, and art overlap in amazing ways. They learned where exotic paint pigments come from (in ancient Rome it took 4 million mollusks to make one pound of purple pigment. That’s why only royalty was allowed to wear it), how mathematics and biology influence who we find beautiful, and found out that there is a company that will take a bone sample from your jaw and use it to grow a wedding ring made of bone. From Bethsheba Grossman’s use of direct metal printing to create incredible sculptures, to Arthur Ganson’s kinetic sculptures that make us laugh by making an artichoke leaf walk, the line between art and engineering is a blurry one and, frankly, the line may be an optical illusion altogether.

In the photo to the right, Marie is measuring a guest to determine whether or not she satisfies the "Golden Ratio" that many consider defines beauty (she does).

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Volunteers Needed!

Our 3rd Green Country Girl's Night is on October 16th at the Tulsa Air & Space Museum. Green Country Girl's Night is a biannual event for 7th & 8th grade girls from the Green Country area who are interested in math, science, technology and engineering.

This is a great way for us to show the girls the face of engineering. Our goal is to get them thinking about STEM related careers before they start high school so they will be able to choose a magnet high school, take the appropriate pre-college classes, and explore the career options that are available in STEM fields. The evening kicks off with a planetarium show and then we split into five groups and participate in a round-robin of science workshops. This year's workshops include Newton's Rocket Car, Funky Chemistry, Microsoft Flight Simulator, the Matching Game, and the Extreme Machines exhibit at the museum.

More information is available at <https://sites.google.com/site/greencountrygirlsnight2010/home/> or by e-mailing Cayti Burch at cayti.burch@swe.org.



Tour of Phillips Petroleum Company Museum

On October 23, 2010 at 10:30am, be inspired by Phillips' transformation from a small Bartlesville business to a global energy enterprise and the extraordinary people who made it happen. Following the tour the group will meet for lunch. Guests and children are welcome to attend. The tour is free, but lunch is paid by guests.

October Social

We have our next social event planned. It will be at Joe Momma's pizza on October 19th from 5:15-6:45. They have \$5 pizzas and some appetizer and drink specials. We will send out an evite closer to the event. Joe Momma's is located at 112 South Elgin, Tulsa.

Brownie Day

Kiplinger hall at TU was filled with brownie girl scouts on October 2nd to learn about science and engineering. SWE sponsored a session for bridge building. The girls became engineers for the day to help a race car cross a divide by building a bridge with length, width, and weight requirements. The girls had a great time. Some girls saw their bridges crash under the weight and found out sometimes engineering is an iterative process!

Check out the SWE website to renew your membership for 2010-2011 year.

Not already a member?

The easiest way to join SWE is to go to the website:

<http://societyofwomenengineers.swe.org>

Click the "Membership" tab.

Engineer's Pledge.

I will:

- ~Tell people about the creative aspects of engineering.
- ~Promote the collaborative nature of engineering.
- ~Talk about how engineering makes a difference.

Female Engineers...

- Don't think of male engineers as dorks.
- Refer to impotence as system failure.
- Would rather discuss the strength of a bridge than the strength of their relationship.
- Know why a Dickies purse is cool.
- Think tools are romantic gifts.
- Have thought about re-engineering a bra.
- Have tried to make a bra out of duct tape.
- Read Popular Mechanics instead of Cosmo for fashion tips.
- Are the only ones smart enough to enter into a field that is 90% male.
- Have used nail polish remover for more than just removing nail polish.
- Know the value of hairspray's flammable properties.

Why Join SWE?

When you join SWE you're joining more than an organization - you're joining a movement toward equality and opportunity for women in engineering. Our mission is focused but our impact is vast. We provide the resources you need whether you are beginning, resuming, or building your career. We also encourage creative and intelligent girls at an early age to explore the field of engineering. Through such career development and awareness, we are making significant strides—together.

Membership Benefits

Community of Support

SWE is an inclusive organization focused on issues of interest to women specializing in engineering and technical careers.

Education and Outreach

SWE's education and outreach activities are designed to enhance the quality of life for women of all backgrounds who pursue the profession of engineering.

Resources and Information

As a worldwide leader in engineering knowledge and support, SWE is a partner you can turn to for advanced, relevant information about women in technical careers.

- SWE Magazine.
- Monthly SWE News.
- SWE Online Communities.
- Webinars and podcasts.
- Online career center.
- Outreach programs.

Leadership Skills

Members are encouraged and supported in the development of skills necessary to be effective leaders in a global marketplace.

- Develop leadership experience in a non-threatening environment through leadership roles at the sectional, regional, and national levels.
- Publish articles in the SWE Magazine.
- Present technical papers at national and regional conferences.
- Lead seminars and workshops at national and regional conferences.

Hot Job

Williams Companies in Tulsa, OK is looking for multiple Sr. Acquisitions Engineers with Reservoir Engineering background to:

- Prepare technical and economic evaluations of potential acquisition candidates
- Assist in technical due diligence and evaluation of due diligence findings; Assess technical project risks
- Provide reservoir engineering analysis and support as needed; Prepare findings presentation for management team

Qualifications:

- Extensive experience in evaluating the reserves and value of oil and gas producing properties.
- Experience using petroleum evaluation software such as ARIES and OGRE.
- Proficient in the use of Microsoft Office applications. Strong analytical skills and the ability to work independently.

Bachelor's degree in an engineering discipline required with an MBA a plus

Please visit: www.williams.com/careers for more information and to apply for this position. Please reference Job IDs 7695 and 7873.

Local Opportunities

Magellan Midstream Partners, LLP

<http://www.magellanlp.com/>

Spirit Aerosystems

http://makeitfly.aero/jobs_home.html

Baker Hughes

<http://www.bakerhughes.com/>

Whirlpool

<http://www.whirlpoolcareers.com/>

Bootcamp for Entrepreneurs

The Cowboy Bootcamp for Entrepreneurs is designed to assist in growing businesses successfully and profitably. It will be held at OSU-Tulsa Campus six Saturdays: Oct. 9, 16, 23, 30 and Nov. 6, 13. Visit the [2010 Cowboy Entrepreneurs Bootcamp](#) website for full program details and to register online.

Women's Financial Seminar

When: Friday, October 22, 2010

Where: Renaissance Tulsa Hotel – Tulsa

Join the Oklahoma Society of CPAs for a special financial event designed by women for women. Experts will discuss financial information that all women need to know, including how to reduce expenses, increase income, pay off debt, boost credit scores and much more. This conference is not recommended for CPE credit.

Leadership Coaching Tip of the Month

Many women have difficulty saying “no”. This can often lead to workplace projects being piled upon them, resulting in added stress, increased hours in the workplace, and additional difficulty balancing work and family life. Next time you’re asked to take on a project that you really cannot fit into your already busy schedule, try replying “Yes, I can certainly take that on, however not with my current workload. How do you propose we reprioritize my workload to accommodate this new project?” You remain a team player who is always willing to take on new and more challenging assignments, but you decide with your boss which additional responsibilities will be taken OFF of your to-do list in order to accommodate the new project.

Rarely are employees rewarded for the QUANTITY of work that they perform. Rather, it’s QUALITY that’s important. Remember that it’s OK to say no, or to say yes with a caveat.

Fall into Salsa

There was so much enthusiasm for the “Fall into Salsa” event! There were 15 or so that attended the dinner portion while more came to join in the lesson. Of those that stayed for the dancing, there were only positive remarks on the overall atmosphere. Saturday nights at Yokozuna tend to be more hectic than most venues, but we were able to pull off the salsa lesson!

If you would like to subscribe to the Tulsa-NEO SWE Newsletter and receive other mailings from Tulsa-NEO SWE please e-mail tulsaneoswe-owner@swe.org with 'Subscribe' in the subject line.

If you would like to un-subscribe, please send an e-mail to tulsaneoswe-owner@swe.org with the word 'Unsubscribe' in the subject line.

SPX Tour

The SPX personnel were most welcoming upon our arrival. SPX provided lunch from Jason’s Deli. The information session before the tour was packed with the interesting issues the company had overcome and headway made to make them a leader in their industry. The manufacturing facility was impressive with the machinery and technology needed to produce such large heat exchangers, feed water heaters, and steam condensers.

