

Tulsa-NEO SWE

Society of Women Engineers

End of Summer Pot Luck Picnic

We hope you can join us on August 27th for our annual end of summer pot-luck gathering at the Burning Tree Community Pool, 8214 E 63rd (just SE of 61st & Memorial Kinko's) 12:30 – 3:00ish.

Members, friends, guests, and families are welcome to attend and bring a side dish or snack to share. Burgers (veggie & meat), hot dogs, and condiments will be provided by the Section and there will be a SWE membership drawing for someone who is not sponsored by an employer. Picnic will be a good time to preview the annual event calendar of local SWE events that was developed at the planning meeting.

We did it!

Our section received 50 FREE Agilent Kits from National SWE. How did we do it? 25 members took the time to watch a one hour outreach training video and completing a short survey. We reached our goal of the maximum obtainable kits with team effort! It is a great experience to see young girls' eyes light up when they find out what engineering is all about and the Agilent Kits help them to have fun in the process. If you are interested in participating in any outreach programs and events this year, contact [Monica Rodriguez](#). Volunteers are always needed and appreciated.

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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.

Meet your New Officers!

President Christine Hirrill grew up in the beautiful Rocky Mountains and has a BS in Petroleum Engineering from Montana Tech. She worked offshore in Louisiana, east Texas, south Texas, 4-corners of New Mexico, and Salt Lake City before moving to Tulsa 11 years ago. She is currently an asset integrity engineer for Magellan Pipeline and will celebrate her 20th anniversary with Williams/Magellan later this year. Hobbies include travel, snowboarding, cross-country skiing, hiking, digital photography, paper crafting, and cycling.



Vice President Christina Bishop Jackson has a BS and PhD in Chemical Engineering from TU and her doctoral research is being utilized by the TU Nanotech Institute to develop a unique 3D nanobattery. Christina is now Global Quality Manager for Callidus Technologies by Honeywell where she manages teams in Shanghai, Mumbai, and Oklahoma to ensure quality and customer satisfaction. She is also the quality super-user for the SAP ERP integration, is Six Sigma Green Belt Certified, and was named one of 14 New Faces of Engineering for 2011 by AIChE. In her free time, Christina is a culinary instructor specializing in Asian cuisine and has taught a radio cooking show on OKFoodie KRMG. She is on the Curriculum Committee and the Outreach Committee as PEP Chair for SWE at the national level.



Vice President Monica Rodriguez has spent the majority of her life in Tulsa and has degrees in Engineering Physics and Music from TU. She has worked as a mechanical systems engineer for a private aerospace company remodeling wide-bodied jets for the rich and famous. She currently works for Williams Midstream as a pipeline integrity engineer and is also active with the Society of Hispanic Professional Engineers. Her goals include going back to school for her MBA in Energy Management and obtaining her PE certification. One of Monica's major hobbies is Latin dancing, but she also enjoys being outdoors with hiking, cycling, swimming, running, mountain biking, rock climbing, and kayaking and she is in training for an Olympic length triathlon.



Secretary Lynn Bresnahan is a process engineer who makes toilet paper for Kimberly-Clark in Jenks. She was born and raised in Cincinnati, obtained a BS in Chemical Engineering in New York at Rensselaer Polytechnic Institute, and started working for K-C in Wisconsin almost four years ago. She loves to travel and see new places and meet new people and is really glad to be involved with SWE because it gives her a chance to meet and network with other great engineers no matter where she moves. She also enjoys hiking and camping.



Join SWE!

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.

Treasurer Chriss Chavez is a full time PhD engineering student at OU where her research interests are telecommunications and Internet traffic modeling and policy. She is currently commuting to Los Alamos, NM for a PhD internship. Chriss earned a B.S. in general engineering with an emphasis in political science from the United States Military Academy at West Point and an MBA from TU.



Chriss served over 20 years active and reserve military and has worked for Ford Motor Company and Texas Instruments.

Chriss is passionate about higher education, especially for women in STEM. She enjoys outdoor activities, cross stitching, sports, spending time with her family, and contemporary Christian music. She resides in Tulsa with her two sons and her lab, Buddy, and is also a Region i Senator.

Section Rep Jana Smith is a design engineer at Spirit AeroSystems where she works on the Boeing 787 Wing Leading Edge. Jana has worked for Spirit for over six years. She received a BS in Mechanical Engineering from TU in 2006 and just received an MBA also from TU this past May. Jana is originally from Tulsa and now lives in Collinsville. She has been happily married to a fellow aerospace engineer, Cliff, for over four years. In her free time, she likes to work in her flower and veggie gardens, cook, read, swim, and do Zumba.



Alt Section Rep Suzanne Dodson received a BS in Chemical Engineering from TU in 2002 and went to work as a project manager for Williams Energy, designing and building projects for refined products pipelines and terminals. Williams Pipeline division later became Magellan Midstream partners, where Suzanne currently works as a Risk engineer, identifying ways to reduce the likelihood and severity of petroleum leaks on the pipeline system. Suzanne has been active with SWE since 1999. She has been Section president, COR representative, is one of three Leadership Coaches for region I, and has served on the Region i nominating committee.



Hot Jobs

Baker Hughes in NE Oklahoma has the following opportunities:

Entry Level Engineers (Claremore and Broken Arrow, OK) – req# TBD– May work in any of the following disciplines: Mechanical, Petroleum, or Electrical. Assists in planning and conducting research, design and development of standard engineering assignments. Basic technical skills. Good written and verbal skills. Ability to build peer relationships as well as work independently. Must be action oriented, ethical in value, and have a strong customer focus. Bachelor's Degree in Engineering, entry level - 1+ yrs experience or Masters Degree in Engineering.

Controls Engineer (Claremore, OK) - req# 1109923. Candidate will design medium and low voltage variable speed drives from 480 to 8000V and up to 3.5 MW or higher. Works with all aspects of the drive design including board design, embedded controls, and control software and hardware. Opportunity exist to grow into a leadership position. Bachelor's/Master Degree in Electrical Engineering with five years experience in control systems design and theory.

Motor Engineer (Claremore, OK) – req# 1110278. Candidate will be involved in all aspects of ESP Motor Design, up to 3000 HP and 7000 V. Candidate will coordinate project work to associated company departments utilizing PDM and related processes. Provide technical support to Marketing, Project Engineering, Manufacturing, Manufacturing Engineering, Reliability, Operations and Regional entities. BSEE with 4 years experience in induction motor design and theory; or MSEE with 2 years experience in induction motor design and theory.

Find out more information at www.bakerhughes.com/careers and search on the req# or Oklahoma openings. Inquiries can also be made to Melissa Janes, Human Resources, at 918/342-8406.

American Airlines has two engineering positions open in Tulsa: Interiors Engineer and In-Flight Entertainment Engineer. Search the following link for openings in Tulsa.

http://www.aacareers.com/us/frame_in dex.htm?http&&www.aacareers.com/us/index.shtml?from=Nav

MarkWest Energy Partners has two engineering positions in Tulsa with their Southwest Business Unit: Project Engineer and Design Engineer.

<http://www.markwest.com/careers/current-openings/>

Local Opportunities

Magellan Midstream Partners, L.P.
<https://magellanlp.ats.hrsmart.com>
Spirit Aerosystems
http://makeitfly.aero/jobs_home.html
Baker Hughes
<http://www.bakerhughes.com/>
Whirlpool
<http://www.whirlpoolcareers.com/>

Got kids? Get them EXCITED about engineering!

If you have elementary aged kids, you're probably looking for ways to keep them busy this summer. Use some of their free time this summer to introduce them to engineering! How should you get started?

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- Grab an old, broken electronic device – calculator, broken DVD player, etc. Pick up a screw driver, and take it apart with your kids. The goal isn't to fix it (unless you're a really handy EE), but just to investigate the components – the small motor that opens the DVD tray, the circuit boards, point out what a resistor is, etc.
- Google "Kitchen Chemistry". Even a 3 year old will enjoy mixing baking soda & vinegar in the sink!
- Look around the web for activities - <http://www.pbs.org/parents/zoom/engineering/> has LOTS of fun ideas that you can do with household objects, most take under 1 hour

Section Officers

President - Christine K. Hirrill
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Section Rep, Alternate - Suzanne Dodson
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President's Letter

We have a superb collection of officers to lead our Section and I am looking forward to another grand year of interesting events and continued growth. Thanks to several members and guests who attended the annual planning session in June, we have a great calendar of events planned; we consider the varying availability and location of our members when developing this schedule and hope that you will find an event or two (or several) that suit your interests and fit your schedule. Events will be highlighted in upcoming newsletters and on our website and you are welcome to contact any officer if you wish to receive an email invitation for each event. I hope to see you at the August pot-luck!

Christine K. Hirrill