

## An Update on U.S. WIN Activities

VOLUME 8, ISSUE 6

### U.S. WIN Chapters Support Nuclear Science Week (NSW)



*Westinghouse – Shoreview Chapter hosted ten events, including this cupcake and trinket give-away*

NSW is a national, broadly observed weeklong celebration to focus local, regional and national interest on all aspects of nuclear science. NSW takes place each year on the third week of October, and each day of NSW provides for learning about the contributions, innovations and opportunities that can be found by exploring nuclear science.

In 2014, a dozen U.S. WIN chapters sponsored outreach and learning opportunities across a variety of age groups and disciplines to communicate the importance of nuclear science. Activities included outreach information sessions with elementary students, hands on experiments with uranium nucleus models, and demonstrations on electromagnetism and half-life decay. Some chapters even took their program on the road by visiting multiple locations in one day.

Chapter members logged dozens of volunteer hours and reached hundreds of community members, sharing the importance of nuclear science.

Stay tuned to the next edition of the WINning Edge to see what chapter clinched the award for \$500 in U.S. WIN Wear.

#### IN THIS ISSUE ▼

- U.S. WIN Chapters Support Nuclear Science Week (NSW)
- Professional Development Made Easy - a WIN for Everyone!
- Submit Your Chapter's Activities to the PD Resource Library
- PSEG Chapter Triples Public Outreach During 2014 NSW
- Nuclear Science Night at the Episcopal School of Knoxville
- Duke Energy Shared in Support of NSW
- Brunswick Nuclear Takes Nuclear Science Street Fair on the Road
- Three Mile Island (TMI) Chapter Helps Students Visualize the Fundamentals of Nuclear Fission
- Entergy's Grand Gulf Station Hosts NSW Event
- Entergy Chapter Promotes Healthy Living
- Exelon's Innovation Expo
- Diablo Canyon Chapter Gears up for 2015



**Do you need to use the U.S. WIN logo for a chapter activity such as an outreach event?**

**Remember, the logo is trademarked, so visit the U.S. WIN website to view your options (log on, choose member resources, choose publication materials). If you have specific questions, email [logo@winus.org](mailto:logo@winus.org).**

# Professional Development Made Easy – a WIN for Everyone!

Submitted by: **Noël Matheny** and the U.S. WIN Professional Development Committee

The Professional Development (PD) committee has launched an online resource of ideas for members' professional development. Ongoing professional development is not only one of U.S. WIN's three strategic priorities but is important for every member's personal and professional success. This new resource includes both technical and leadership development tools including recommended books, seminars, lunch-and-learn programs, as well as organizational involvement tools, and is comprised of activities occurring within our chapters today. In addition, the library features presentations and activities from regional meetings and conferences. What better way to identify U.S. WIN professional development opportunities than through the experiences of your U.S. WIN peers?

“We hope the U.S. WIN members will use this resource as well as contribute to it. Our goal is to make it an asset to the membership and with your input it will be a WIN for us all!”



To access the library simply log on to the website, [www.winus.org](http://www.winus.org) and choose the **PD Resource Library** under **Member Resources**. ✨

## Submit Your Chapter's Activities to the PD Resource Library

Submitted by: **Noël Matheny** and the U.S. WIN Professional Development Committee

This PD Resource Library provides U.S. WIN members with PD activities occurring within the U.S. WIN community. We need your help to make this endeavor a success and add real benefit to U.S. WIN members. The committee is soliciting chapters for any additional PD materials and information. If your chapter participated in a PD activity that was successful, share it! Complete the template for submission (see below) and the waiver (if applicable) and send it to [ProfDvmt@winus.org](mailto:ProfDvmt@winus.org). All forms are available on the U.S. WIN website under Member Resources/Publication Materials.

How to share your PD ideas:

- Send your submission in the body of an email or an attached document to [ProfDvmt@winus.org](mailto:ProfDvmt@winus.org):
- If you are sharing an event or activity that your chapter held, please complete the “PD Library Event Template” located here: [http://www.winus.org/winus/files/Publications/Professional-Development-Event-Template\\_For-Upload.docx](http://www.winus.org/winus/files/Publications/Professional-Development-Event-Template_For-Upload.docx).
- Remember to include any corresponding presentations, handouts or demonstration instructions along with necessary release forms.
- For non-NEI events (including U.S. WIN regional), include a “U.S. WIN Release Form” located here: <http://www.winus.org/winus/files/USWINdocs/2013-US-WIN-Release-Form.pdf>.
- Include your name, plant and company, region, chapter, daytime telephone number and email address.
- Find an exciting website? Simply submit the link (no release form required). ✨

# PSEG Chapter Triples Public Outreach During 2014 NSW

Submitted by: **Tammy Timberman**, Licensing Engineer, PSEG Nuclear, LLC, Region I

The PSEG Chapter thanks NAYGN for taking time to partner with U.S. WIN to promote PSEG and the industry during NSW. During the week, the U.S. WIN chapter accumulated 36 volunteer hours and reached more than 350 students and adults sharing the positive message about nuclear power.

There were many highlights from the week such as an energy and nuclear overview at the Energy and Environmental Resource Center with local seventh graders. The chapter discussed careers in nuclear and the focus the industry places on environmental issues.

Graduates from the local Rowan University who now work at PSEG performed double duties at the university sharing nuclear discussions over lunch with the engineering deans, then handing out pretzels and career information to students.

The grand finale of the week was when PSEG engineers visited Penn Beach School in Pennsville to share their nuclear knowledge to several fifth grade classes. All of the students put their knowledge and skills to the test by competing in NAYGN's coloring contest to this year's theme, "Nuclear Energy for Clean Skies."

This is the second year PSEG has participated in NSW, and thanks to the efforts of the volunteers, the chapter tripled the members of the public reached in 2013.✿



*PSEG Nuclear, LLC hosted three NSW activities*



## Nuclear Science Night at the Episcopal School of Knoxville

Written by: **Julie Ezold**, Nuclear Materials Processing Group, Oak Ridge National Laboratory, Region II

More than 75 students and their parents attended Nuclear Science Night on Monday, Oct. 20, at the Episcopal School of Knoxville (ESK) in Knoxville, Tenn., as part of NSW. Students ranging from kindergarten to fifth grade explored several rooms of experiments on nuclear detection, electrical circuits, electromagnetism and half-life decay, even a cloud

chamber demonstration. Said one parent, "Both my first and fourth grader loved the activities! When we got home my son fished a long-neglected circuit board science kit from his closet and happily tinkered with it for hours. These events truly spark kids' interest and curiosity... [there is] no better testament to the value of an event like this!"

Volunteers from the Oak Ridge and University of Tennessee Chapters supplied the hands-on experiments for participants. Special thanks extended to ESK parent and U.S. WIN member Julie Ezold for heading up this wonderful event! ✿

Save  
the  
Date

2015 U.S. WIN  
National Conference  
July 12-15 Hilton Austin, Austin, TX

# Duke Energy Shared in Support of NSW

Written by: **Amy Dewhurst**, Fleet Design Engineering, Design Processes, Duke Energy, Region II

Duke Energy Piedmont Chapter organized several activities in support of the 2014 NSW. Activities included school presentations, a teacher presentation, homeschooler events, a realtors' luncheon and a presentation to Wake (County) Young Women's Leadership Academy.

On Monday and Tuesday, members in the Charlotte office partnered with Charlotte Mecklenburg Schools to give presentations to elementary and middle school students. These presentations were specifically geared toward nuclear energy. So many schools were interested that presentations also spilled into the following week. There were 255 students reached during NSW and 540 reached the following week.

On Thursday and Friday, members helped Catawba Nuclear Station and McGuire Nuclear Station site communications groups host Homeschooler's Days. Homeschooler's Day agenda included a presentation about nuclear energy, a career panel, and breakout sessions where guests could participate in activities. Activities included M&M Half-Life, Calculate Your Dose, and Nuclear Dress-Out with a Demonstration of a Geiger Counter. These two events were able to reach approximately 200 participants ranging from grades K-12.

Chapter members at Harris Nuclear Plant (HNP) attended the Wake County Middle School Science teacher chair meeting to talk about nuclear power and what members could do to support learning in their classrooms. There were 41 teachers present at the meeting. Harris members also hosted a local area realtors' lunch-and-learn during NSW at the HNP Energy and Environmental Center. Management from several different departments spoke with the realtors about the safety, security, and general operation of the plant. The goal was to equip realtors with the facts about nuclear energy, so they could have an informed discussion with potential buyers about any concerns they might have about living close to a nuclear power plant. One HNP member also went to Wake Young Women's Leadership Academy (WYWLA) to talk about her career in a Science, Technology, Engineering and Math (STEM) field, including how she entered her career and about nuclear power. There were about 50 middle school girls in attendance.

At the end of the activities, Duke Energy Piedmont members were able to reach 1,106 people during their support of activities associated with the 2014 NSW. ✨



Students visited a variety of educational stations



Homeschooler's Day at McGuire Nuclear Station

# Brunswick Nuclear Takes Nuclear Science Street Fair on the Road

Submitted by: **Lori Bates**, Senior Administrative Specialist, Brunswick Nuclear Plant, Region II

With the support of plant's general manager and U.S. WIN executive sponsor, along with a small army of 85 volunteers that included 30 members of the site's leadership team, the Brunswick Chapter took their Nuclear Science Street Fair on the road to all five of the county's middle schools reaching 2,047 sixth and seventh graders.

Students spent thirty minutes at the fair, averaging ten minutes at three different stations. Stations included:

- Robotics Demonstration
- Fission Game
- Minitesium Half Life
- Radiation Detection Demonstration
- Anatomy of an Atom
- Half Life Demo with Balloons
- Nuclear Dance

Principals, teachers, and volunteers alike offered positive feedback. Students were engaged and excited. Approximately 90 percent of the active chapter membership participated during NSW. ✨



*Brunswick Chapter members along with their leadership visit five county middle schools*

# Three Mile Island (TMI) Chapter Helps Students Visualize the Fundamentals of Nuclear Fission

Submitted by: **Heidi Nafis**, Three Mile Island, Region I

In October, members from the TMI Chapter went to the Middletown Area Middle School to host a session for eight graders during NSW. The chapter partnered with Ryan McCain, Middletown Area Middle School's physical science teacher. Mr. McCain feels it's extremely important for students to have an understanding and appreciation of the capabilities of nuclear energy. He says, "The students pass by TMI regularly without really knowing what the plant does." At the session, many students discovered for the first time that the clouds coming out of the cooling towers are water vapor, not smoke.

Chapter members Toren Hall and Heidi Nafis, both TMI engineers, gave a short presentation on the fundamentals of atomic particles and nuclear fission. They were joined by Michelle Vera and Carolyn Flory-MaGatz, who also provided background on TMI and nuclear power production. The students were amazed by the magnitude of the power produced with such a small amount of material (compared to that of coal or gas).

With the aid of a uranium nucleus model constructed by Hall, the presentation covered the parts of the atom (protons, neutrons, and electrons), the periodic table, and the fission process. Since the students had not yet covered chemistry in their curriculum, much of the material was new to them.

At the end of the session, the kids had a lot of fun putting their new knowledge to the test and practicing "fission" by splitting the uranium nucleus model apart. They fired "neutrons" at the suspended nucleus until the neutron and nucleus collided and fission occurred.

After the presentation, members surveyed the students with the following questions:

- Did you like the activity?
- Did you learn anything new?
- What do you think about Nuclear Energy?
- Do you have a clear goal and know what type of job you want as an adult?
- Do you believe that science is very broad and is crucial to many different career opportunities?

The kids gave a variety of creative responses, but most of them learned something new and were beginning to better appreciate nuclear energy. Several even declared that they'd now like to become engineers! The chapter looks forward to engaging with local schools in the future to help students learn more about nuclear science. ✨

# Entergy's Grand Gulf Station Hosts NSW Event

Submitted by: **Sarah Moore**, Entergy Echelon, Region IV



*Entergy Grand Gulf teamed up for a very successful NSW*



Grand Gulf Nuclear Station's Chapter along with North American Young Generation in Nuclear and the Diversity and Inclusion Council hosted an NSW event for approximately 130 high school science teachers and students in October to help build awareness of the many contributions of the nuclear science industry and those dedicated and highly-trained employees who operate the facility safely, securely and reliably.

Participating schools included high schools from Port Gibson, Jefferson County, Natchez, Warren Central, Vicksburg, Clinton, and Porter's Chapel Academy.



"It's important for us to reach out to our communities and provide them information on the importance of nuclear energy, as well as offer a first-hand look at how we operate our nuclear facility safely, securely and reliably to provide about 20 percent of our state's power," said Gail Stanton, Grand Gulf's Chapter representative. "As a company, we believe in being active in our communities where we operate. This event also gave us the opportunity to showcase our outstanding employees."

Students participated in interactive breakout sessions focusing on the important aspects of operating a nuclear power plant. They also learned about exciting career opportunities in chemistry, operations, radiation protection, engineering and security.



The teamwork and collaboration promoting the benefits of nuclear energy directly tie into the Effective Teamwork and Inclusion principles included Entergy's Employee Practices listed under the Transformation Roadmap's strategic imperative, Transform the Organization. It also aligns with the Nuclear Excellence Model's Fleet Focus Area of Organizational Effectiveness. ✨

## Entergy Chapter Promotes Healthy Living

Submitted by: **Sarah Moore**, Entergy Echelon, Region IV

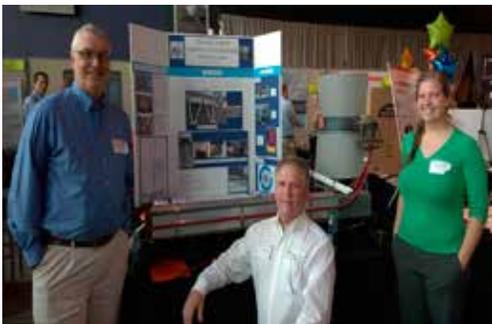
In September, members of the Entergy Chapter assisted with a walk at a local daycare learning center to fight juvenile diabetes. There were children from two to four years of age in attendance. Members led walks around the playground and facilitated games to win prizes. This networking opportunity demonstrated the benefits of healthy eating and exercise and showed how these simple activities can lead to healthier lifestyles – no matter what age! ✨



Members lead a healthy living walk at local learning center.

## U.S. WIN Chapter Represented at Exelon's Innovation Expo

Submitted by: **Carolyn Flory-Magatz**, Three Mile Island, Region I



TMI employees Mark Reed, Kevin Coughlan, and Heidi Nafis represent Exelon at the Innovation Expo

"The Internet of Things" Innovation Expo was held in November at M&T Bank Stadium in Baltimore. The expo consisted of:

- Panel discussions featuring executives from leading energy technology businesses sharing their candid perspectives on "The Internet of Things" and how the future will be shaped by interconnectedness, new technology and innovation;
- Demonstrations featuring a leading industry electric car manufacturer, drone or UAV technology, and sensor technology currently being employed at NASA;
- Vendor exhibits showcasing new and exciting technologies with the Internet of Things; and
- The Exelon Innovation Poster Contest, featuring innovative ideas from employees. ✨

## Diablo Canyon Chapter Gears up for 2015

Submitted by: **Shilo Terek**, Employee Concerns Program, Pacific Gas and Electric Company's Diablo Canyon Power Plant, Region IVI

The Diablo Canyon Chapter held their final 2014 meeting in December with a focus on gearing up for 2015. Diablo Canyon's owner/operator, PG&E, is expected to face mounting public pressure related to the state's ban on once-through cooling, as well as continued uncertainty surrounding the facility's license renewal application. Recognizing these challenges and anticipating the many opportunities for comment at public meetings, the chapter will focus on public outreach in the coming year.

"We are eager to give our members the tools they need to feel confident speaking out in a public setting," said Kristin Zaitz, chapter board member.

The chapter plans to partner with the company's corporate affairs department to hold a series of public speaking seminars and provide members with a list of opportunities where they can use their new skills in the community including school visits, presentations to professional and business groups and a special U.S. WIN Family and Friends site visit. ✨

## Follow U.S. WIN On Twitter!

Follow @WomenInNuclear to keep up with U.S. WIN happenings. We welcome your suggestions and comments by direct message on Twitter or by email to [CommComm@winus.org](mailto:CommComm@winus.org). If you'd like to join the Twitter Team, please contact Kara Lukehart at [karalukehart@urs.com](mailto:karalukehart@urs.com) for more information.

## WHAT IS U.S. WOMEN IN NUCLEAR?

- U.S. Women in Nuclear (U.S. WIN) is the premier network of over 6,000 women and men who work in nuclear- and radiation-related fields around the country.
- U.S. WIN members participate in networking, professional development and outreach activities through local chapters, regional organizations, and the national organization. Local chapters are organized based on company, university/college, or geographic region.
- In addition, U.S. WIN is an affiliate of the Women in Nuclear Global organization (WiN-Global). The WiN-Global organization is made up of more than 25,000 members in 107 countries.

For more information  
visit us at [winus.org](http://winus.org).

## SUBMIT YOUR STORY TODAY

We want to know what your U.S. Women in Nuclear (U.S. WIN) Chapter is doing to support an environment in nuclear energy and technologies, provide a network for professional development or provide public education opportunities. This is how you can contribute:

### 1. COMPOSE YOUR STORY.

Brag about a great event you put on recently, tell us about something important happening at your facility, or highlight a personal achievement of a member of your chapter. You can type it in a word processor document, or even just put it in the body of an email. Make sure to include your name, plant and company, region, daytime phone number and email address.

### 2. ADD PHOTOS.

They say a picture is worth a thousand words, so be sure to add a photo! Photos make your story pop and add that personal touch. Make sure that you follow the guidelines – get permission from everyone in the photo before you submit it. You can find a copy of the release form at the U.S. WIN website.

### 3. SUBMIT YOUR STORY.

Email your story and photos to [CommComm@winus.org](mailto:CommComm@winus.org).