

September 2016

## GET INVOLVED



The DiSTI Duffer Charity Golf Tournament will be held on October 8th at The Country Club at Deer Run Golf Course. For information on how to register to be a player or sponsor, or donate auction items,

visit [www.distiduffer.org](http://www.distiduffer.org).

Support STEM education of our students to help inspire them to pursue STEM careers and be part of the workforce of tomorrow.



## Coming in October...

Watch for details about our next General Council meeting focusing on **"The Power of STEM in Power Generation"** on **October 26, 2-5 pm**, hosted by Siemens at their [Orlando Wind Service Training Center](http://www.siemens.com)

## BOARD MEMBER HIGHLIGHT



Pam Caraballo is the Software and SCADA Manager with Siemens. Her scope of responsibility involves the execution of Supervisory Control and Data Acquisition Systems (SCADA) projects for Wind Power Plants in the

Americas as well as Wind Turbine controls customer order engineering. She joined Siemens in 2009 as an electrical intern in the WP ON AM Engineering team and became the manager of the SCADA group in 2014.

She enjoys being involved in STEM and helping communicate the opportunities in that field. She is currently helping out with STEM awareness programs at UCF and Valencia.

## COMMUNITY SPOTLIGHT

### SIEMENS Siemens Wind Power

Siemens has always had a big impact on our local STEM education growth. Below are their summer STEM activities:

#### Spring Into STEM: Wind Energy

On April 7, 2016, the Orlando STEM@Siemens Committee, in partnership with the Siemens Foundation, hosted a **"Spring into STEM"** event at the Wind Service Training Center. The goal was simple: to ignite interest and curiosity for STEM.

#### Stenstrom Renewable Energy Presentation

On April 20th we presented topics in renewable energy to about 100 students at Stenstrom Elementary School in Oviedo. The students learned about wind energy and how a wind turbine operates. We used one of our mini wind turbine models from the Siemens Green Footprints Wind Energy kits to demonstrate how wind energy is converted to power. We used a fan to simulate wind and measured the power output using a multimeter.



#### Siemens Scout Day Event

In this annual event, children Ages 7-11 visited Siemens to earn their Scout badges. The Boys earned the following merit badges: Electricity, Energy, Engineering, and Programming. The Girls worked on requirements for "Discovering the Engineer in U" with a concentration on Innovation and invention.

#### Duke Energy Youth Energy Academy

For the past four years, the Black Resource Group at Siemens has partnered with the American Association of Blacks in Energy to host the annual Youth Energy Academy, a two day workshop that exposes minority high school students to careers in the energy industry. Fifty area students at each of three events in Central Florida (St. Petersburg, Ocala, and Orlando) are hosted by Energy companies. For the Orlando session, day 1 was held at the Duke Energy Winter Garden Training Center while Day 2 was held at the Siemens Wind Training Center and then the OUC Stanton Plant.

#### Siemens STEM Summer Workshop

On July 30<sup>th</sup>, the Orlando STEM Committee hosted its first STEM Summer Workshop at the Orlando Science Center for Siemens employees to experience the STEM@Siemens program with their families. Several families with almost 100 attendees participated in a day filled with fun learning activities about Siemens and our businesses while promoting interest in STEM.

# STEM Connections

September 2016 (continued)

## MANUFACTURING DAY - OCTOBER 7, 2016

October 7 marks the fifth annual Manufacturing Day<sup>SM</sup> when thousands of manufacturers will again host students, teachers, parents, job seekers and community leaders at open houses, plant tours and educational sessions to showcase modern manufacturing technology and the cool jobs available. It is a chance for students to see the diverse career options that are innovative, impactful and durable.



### Data Shows Theory Works:

Research reveals the theory behind Manufacturing Day works. For the first time, participants were polled about their experience:

- 81 % of student respondents are more convinced manufacturing provides careers that are both interesting and rewarding
- 71% of student respondents are more likely to tell friends, family, parents or colleagues about manufacturing
- 93% of educators are more convinced manufacturing provides careers that are interesting and rewarding
- 90% of educators indicated they are more likely to encourage students to pursue a career in manufacturing

## STEM in the Community

- The DiSTI Corporation set to host [7th Annual Duffer Charity Golf Tournament](#)
- [UCF Professor](#) Earns National Award for Inspiring Students to Pursue STEM
- Students focus on Job Skills at [STEM Career Academy](#)

Submit your 2016 Membership Application online at:

[www.centralfloridastem.org/getinvolved/joinCFSTEM](http://www.centralfloridastem.org/getinvolved/joinCFSTEM)

## GRANT OPPORTUNITIES

- [SaveOnEnergy.com](http://SaveOnEnergy.com)'s 2nd annual \$500 Teacher Grant opportunity for K-8th grade educators
- [Directpackages.com](http://Directpackages.com) is giving teachers the opportunity to enter to win \$1,000 to spend on classroom technology that will facilitate a more constructive learning environment
- [U.S. Department of Education](http://U.S. Department of Education) offers three kinds of grants: Discretionary grants, student loans or grants and formula grants

## Maker Faire® Orlando

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