

February 2017

GET INVOLVED

- Attend the Orange Technical College **STEM Expo** on February 24th!
- The 12th Annual **FEEC** Registration is Open!
- Register to be a **TechFest XI** Workshop Speaker on March 16th!
- **TechMe** is offering Spring Break Camps!
- Call for Judges: **62nd State Science & Engineering Fair of Florida** - STEM Competition
- Like us on Facebook @ www.facebook.com/CFSTEM



SCHOLARSHIP OPPORTUNITIES!

- The **Central Florida STEM Education Council** is offering (2) senior students seeking to pursue a bachelor's degree in a Science, Technology, Engineering or Mathematics (STEM) field at an accredited College or University a \$500 scholarship (*deadline March 25, 2017*)
- **WID (Women in Defense)** is pleased to announce the release of 2 scholarships to female high school seniors pursuing a career related to national security, defense or a STEM related field in the amount of \$1,000 each (*deadline March 31, 2017*)
- **ITEA (International Test and Evaluation Association)** offers at least one \$1,000 scholarship to senior students attending high schools in Orange, Seminole, Lake and Osceola counties (*deadline March 10, 2017*)

COMMUNITY SPOTLIGHT



Robo-Knights is a robotics team from Orlando supported by the Central Florida STEM Education Council. We are an after school activity team focused on STEM education. The team represents students from Seminole and Orange County High School and Home Schools near UCF (University, Haggerty, Lyman, Winter Park and Wekiva High School - boys and girls).

The local individual high schools are having a challenge to support the after school schedule hours to maintain and manage a competitive robotics team. Army/Navy/Lockheed Martin engineering mentors formed this team structure independent of individual school to best cater to all the local students that want to participate in this great opportunity. The team mentors have had many successful seasons in the past and will implement their experience to best support the students for a great competition year.

Robo-Knights are having a very successful sophomore year:

- Robo-Knights are #1 top ranked team in the FTC Robotics Tesla League
- Robo-Knights won the Think Award which is given to the Team that best reflects the journey the Team took as they experienced the engineering design process during the build season
- Robo-Knights were the Finalist Alliance Captain at the Tesla League Championships and also won the PTC Design Award which is presented to Teams that incorporate industrial design elements into their solution
- Robo-Knights are ranked 4th in FL State and compete in the FL State Championship Sat 25 Feb 2017



2017 CFSTEM GENERAL COUNCIL MEETING DATES & INDUSTRY FOCUS

April 5th - Financial

June 7th - Space Exploration

August 2nd - Retail

February 2017 (continued)

CFSTEM GENERAL MEETING RECAP

On February 1, a large number of Central Florida educators, industry professionals, parents, and students participated in an active CF STEM General Council Meeting on "The Rapidly Emerging Field of Cyber Security."

Did you know:

- Cyber Security Workforce shortage to reach 1.5 million by 2019
- The median salary earned by information security workers is \$88,890

During the meeting our industry representatives shared a wide range of challenges and perspectives highlighting the dynamic field of Cyber Security. Our local educators discussed a number of impressive education programs that exist in our community and are rapidly growing; which are also being highly recognized by State and National agencies.

The informative panel discussions were centered on:

- What is Cyber Security and what does it mean?
- What are current Industry challenges, needs, and opportunities?
- How do we fill the workforce pipeline?

One of the best parts of this meeting were all the valuable connections made among all the participants; continuing to energize the community with keeping STEM education front and center in Central Florida!!

Special Thanks to all the Presenters: Lee V. Mangold, VP of Florida Cyber Alliance / CEO of GoldSkySecurity / Adjunct Professor at UCF in Cyber Security; Angela McLean, IT Compliance and Governance Manager, Lockheed Martin; Adam C. Losey, Senior Counsel, Foley & Lardner LLP and Chair, FBI Infragard Orlando Chapter; Russ Walker, VP and Chief Information Security Officer, Adventist IT/Adventist Health Systems; Demetria Hayes, Principal, Crooms Academy of Information Technology; Bonnie Callahan, National Director Emeritus, Air Force Association Cyber Patriots and Central Florida Chapter Cyber Patriot Liaison; and Dr. Thomas Nedorost, Lecturer, UCF Department of Computer Science and Faculty Advisor, UCF Collegiate Cyber Defense Team.

UCF STEM SUMMER PROGRAMS

- **CyberCamp**, offered in collaboration with the [Florida Cyber Alliance](#), focuses on teaching beginner and intermediate computer security techniques and preparation for cyber competitions to students entering grades 9-12 with hands-on labs, daily challenges and an all-day culminating challenge activity.
- **Camp Connect** offers broad exposure to a variety of engineering disciplines, including: electrical, industrial, mechanical, civil, environmental, aerospace, and computer science.
- **Summer Institutes** are intensive programs for gifted and high-achieving students who have interest in learning the foundations of Computer Science, Biology, Physics or advancing skills in Competitive Programming.

CYBER SECURITY RESOURCES



- The [U.S. Department of Homeland Security](#) provides student resources from ages 3 and up!
- The [NICCS \(National Initiative for Cyber Security Careers and Studies\)](#) offers formal education from integrating cyber security into the classroom to scholarships!
- [StaySafeOnline.org](#) powered by National Cyber Security Alliance teaches online safety from grades K-12
- Nova Labs has teamed up with cyber security experts to create the [Cyber Security Lab](#), a game in which players will discover how they can keep their digital lives safe and develop and understanding of cyber threats and defenses
- The [NetDay Cyber Security Kit for Schools](#) features tools and resources to raise awareness among K-12 educators, students & families about online safety & computer security

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RENEW YOUR MEMBERSHIP!

Submit your
**2017 Membership
Application** online at:
www.centralfloridastem.org/