

# CFITS

Center for Forensics,  
Information Technology,  
and Security

## Dates to Remember

### WEDNESDAY LECTURE & NETWORK FORUM

August 19, 2:30-4:00pm

Guest speaker Alvaro A. Cardenas

### CFITS VOLUNTEER OPPORTUNITIES

Our new academic year begins this month! First HOLLA scheduled for Sept 17 & 18 from 10am—Noon.

## Quote of the Month

"Alarm bells are sounding about the increasing workforce capacity gap in Cyber Assurance. In this country, we already have a substantial shortage of qualified personnel to fill the open positions in the field. All the predictions, backed up by daily news of the latest massive data breach, indicate that demand will continue to increase sharply in the years to come. Programs that prepare students to enter the fields of CyberSecurity and Information Assurance are critical. These programs need to build the next generation of Cyber Warriors to secure our information infrastructure as we understand it today and to prepare them to be as agile and creative about Cyber Assurance as those who seek to exploit our vulnerabilities. And to achieve the levels of skilled workers that will be needed, the industry will also need to address the issues that keep half the players, women, off the field."

**Phyllis Kolmus**

Deputy Director, OSD Programs,  
AT&T



August 2015

USA School of Computing



## Wednesday Lecture & Network Forum

Featuring Alvaro A. Cardenas

August 19, 2015, 2:30-4:00pm

University of South Alabama

Shelby Hall, 150 Jaguar Dr., Rm. 2119

## August Lecture: Towards Resilient Control of Cyber-Physical Systems

*Wednesday Lecture and Network Forum on Information Assurance  
for Computing Professionals* See full speaker info on our School of Computing website ([click here](#))

## USA School of Computing Teaching Cybersecurity at NSA and NSF GenCyber Summer Camps

About 60 students attended the University of South Alabama's [School of Computing](#) to learn from the experts during the GenCyber Summer Camp sponsored by the U.S. National Security Agency and the National Science Foundation.



Two camps were hosted during the month of July, under the direction of School of Computing faculty members. The participants, all rising 9<sup>th</sup> graders at Davidson High School, learned cybersecurity and cyber problem solving while three of their teachers gained knowledge and skills in cybersecurity and how to design curricula to train the next generation of cybersecurity workers. The camps are free for participants.

"These students are among the top 10 percent of students in the Mobile County Public School System," said Les Barnett, director of USA's Center for Forensics and Information Technology. "My personal reason for starting these camps is that workforce development is essential to economic development, and there are roughly three jobs for every graduate with a degree in computing. At the School of Computing, we meet that demand with five undergraduate degrees, plus graduate and doctoral degrees in computing."



Attendees at the 2015 GenCyber Camp held at USA's School of Computing look over the day's assigned task.

## Are You Up to Speed?

In today's world technology gives "speed" a different meaning but for our Industry Partners and Professionals *it's vital that we keep you up to speed* on how SoC—CFITS is working to help you! CFITS partners with the SoC Advisory Board, consisting of about 20 area businesses that give of their time and resources to improve the entire School of Computing here at USA. These Advisory Board member companies participate in accreditation, technology transfer, public/private educational partnerships, promotion, K-12 initiative, research, endowments, and industry outreach, as well as providing a source of internships for SoC students.

In addition to the Advisory Board member companies, CFITS has established relationships with other Industry Partners since meeting the work force needs of the broader industry requires knowledge of their various applications of computing. Services are provided through a variety of initiatives including:

Senior Capstone Project—graduates complete a course entitled "Senior Project" as an educational capstone in their chosen area of study. Our Industry Partners are invited to offer projects for these students in their senior year.

Student Placement—Our school is fortunate in these times of high unemployment to be experiencing high demand for our students. Our goal is to match well educated individuals with employment opportunities. Industry Partners have unique opportunities for contact with these students.

Internships—Students work up to 20 hours per week at your business. The intern arrangement is between the Industry Partner and the University, both are involved in the selection of the student.

Managed Interns—A USA professional (PhD or Masters-level) manages a team of interns who will work for you, at the university, on a well-defined project submitted by you. The Industry Partner gets a distinct managed resource. This process will create a pool of applicants, trained and skilled in your business, from which to select new staff.

Your partnership with CFITS has many benefits! For more information on our how we can help with your specific industry technology needs we will gladly meet with you for an in-depth discussion and discovery session. Contact Director of CFITS, Les Barnett at [hlbarnett@southalabama.edu](mailto:hlbarnett@southalabama.edu)

# H O L A

ANDS  
N  
EARNING  
AB  
CTIVITIES

USA School of Computing—CFITS provides "field trips" at no charge to our Partner Schools! Focusing on whole grade learning intervention we deliver high quality CS STEM learning in our K-12 STEM Lab in Shelby Hall. Industry Partners & Professionals assist the SoC faculty and Partner School Teachers and staff with the instruction.

## USA School of Computing LOVES Raspberry Pi



**What is Raspberry Pi?** The Raspberry Pi is a low cost, credit-card sized computer that plugs into a computer monitor or TV, and uses a standard keyboard and mouse. It is a capable little device that enables people of all ages to explore computing, and to learn how to program in languages like Scratch and Python. It's capable of doing everything you'd expect a desktop computer to do, from browsing the internet and playing high-definition video, to making spreadsheets, word-processing, and playing games.

What's more, the Raspberry Pi has the ability to interact with the outside world, and has been used in a wide array of digital maker projects, from music machines and parent detectors to weather stations and tweeting birdhouses with infra-red cameras. We want to see the Raspberry Pi being used by kids to learn to program and understand how computers work.

USA School of Computing hosted teacher training on Raspberry Pi during July 2015 for our Partner Schools. The SoC offers field trip type workshops for students as a part of our K-12 initiatives. During these HOLLAs the students learn things such as: how to build their own media server (allows users to play and view most videos, music, podcasts, and other digital media files from local and network storage media and the internet), how to build their own low power FM radio, build their own retro gaming console (e.g. Atari 2600, Nintendo, Sega), and write software to control a robotic arm; all using a Raspberry Pi and open source software.



Additional teacher training may be offered Fall 2015 – keep your eyes open for Raspberry Pi!

# TENURE

## Congratulations on Making Tenure!



Assistant Professor Dr. Huang, and Associate Professor Dr. Anandel have both received tenure with promotions from University of South Alabama School of Computing. Effective August 15th, 2015 we will officially recognize Dr. Jingshan Huang as Associate Professor and Dr. Todd Anandel as Professor. Please join us in congratulating each of these two exceptional professors for their consistent devotion to the advancement of computing. Thank you both for your dedication and outstanding achievements!