

TCIPG Summer School

June 17-21, 2013, Q Center, St. Charles, Illinois

The Trustworthy Cyber Infrastructure for the Power Grid (TCIPG) center is excited to offer our third summer school, to be held June 17-21, 2013 at the Q Center in St. Charles, Illinois! We invite and encourage utility and industry practitioners, researchers, and students to attend and explore the nexus between electrical energy systems and cybersecurity.

Our program is designed to provide an essential background in the basics of security and resiliency for cyber infrastructure in power and smart grids. Participants will also gain an understanding of the smarter energy system evolving from the power grid, as well as associated cybersecurity challenges. Experts from industry, national labs, academia, and government will lead sessions that include industrial case studies and examples from current research. Deep dive sessions will partner industry and academic experts to explore critical security topics in depth.

An optional hands-on SCADA security assessment training lab will be offered to a limited number of participants on a first-registered, first-served basis. A networking reception will also offer participants additional opportunity to connect with leading experts, researchers, and practitioners in fields that address cybersecurity and resiliency for smart energy systems.

For more information or to register, visit: <http://tcipg.org/2013-summer-school>

Registration and Hotel

Registration and on-site lodging are limited, so consider securing both as soon as possible to guarantee participation. The early registration fee is \$1500. The summer school will take place at the Q Center, an executive retreat center in St. Charles, Illinois. Located on a 95-acre wooded property on the Fox River, the Q Center is just a 45-minute drive from Chicago's O'Hare International Airport.

Scholarships

Academic students interested in attending the 2013 TCIPG Summer School have an opportunity to apply for scholarships that cover registration fees, lodging, and a small stipend for travel. Applicants must be enrolled in a degree-granting program at a university or college in the United States to apply. Preference will be given to students with demonstrated academic, research, and/or career interests in power or smart grid cybersecurity. For more info, visit <http://tcipg.org/2013-summer-school-scholarships>.

Sponsorship

We also offer several sponsorship opportunities for industry, vendor, and utilities that want to increase their brand awareness within the smart grid community. For more information, visit <http://tcipg.org/2013-summer-school-sponsorships> or contact Tim Yardley at yardley@illinois.edu.

Deadlines	
Scholarship Application	April 14
Early Bird Registration	April 16
Lightning Talk Proposals	May 15
Regular Registration	May 17
Q Center Lodging	May 24
Last Day to Register	June 3



The TCIPG summer school complements other research and educational activities at TCIPG, which is funded by the U.S. Department of Energy and U.S. Department of Homeland Security. Our center brings together researchers from the University of Illinois at Urbana-Champaign, Cornell University, Dartmouth College, the University of California at Davis, and Washington State University. For more information about TCIPG, visit <http://tcipg.org>.





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Confirmed Speakers*

- **Art Anderson**, Pacific Gas & Electric Company
- **Robin Berthier**, University of Illinois
- **Frances Cleveland**, Xanthus Consulting International
- **Mariesa Crow**, Missouri University of Science Technology
- **Jeff Dagle**, Pacific Northwest National Laboratory
- **Katherine Rogers Davis**, PowerWorld
- **Bryan Fite**, BT
- **Dennis Gammel**, Schweitzer Engineering Laboratories
- **Carl Gunter**, University of Illinois
- **Carl Hauser**, Washington State University
- **Carol Hawk**, U.S. Department of Energy
- **Diane Hooie**, U.S. Department of Energy
- **Melanie Johnson**, ERDC-CERL
- **Himanshu Khurana**, Honeywell
- **Jason Larsen**, Idaho National Laboratory
- **Doug Maughan**, U.S. Department of Homeland Security
- **Kristin Munsch**, Illinois Citizens Utility Board
- **Klara Nahrstedt**, University of Illinois
- **David M. Nicol**, University of Illinois
- **William Niemira**, University of Illinois
- **Thomas J. Overbye**, University of Illinois
- **Edmond Rogers**, University of Illinois
- **Anna Scaglione**, UC Davis
- **Justin Searle**, UtiliSec
- **Jana Sebestik**, University of Illinois
- **Brian Smith**, EnerNex
- **Ryan Speers**, River Loop Security
- **Anurag Srivastava**, Washington State University
- **Kevin Staggs**, Honeywell
- **Alfonso Valdes**, University of Illinois
- **Penny Wolter**, Chevron
- **Andrew Wright**, N-Dimension Solutions
- **Tim Yardley**, University of Illinois

Topics/Activities*

- Power System Fundamentals
- Cybersecurity for Power Systems
- Power Grid Communication Protocols
- Power System Visualization and Analysis
- Building Energy Management Systems and Cybersecurity
- Smart Grid Vulnerabilities
- Secure Network Architecture for Control Systems
- Security Testing, Assessment, and Validation of Devices in Utility Environments
- Security-aware Modeling and Simulation of Grid Systems
- Renewables and Resiliency in Microgrids
- Military Microgrids and SPIDERS Implementation
- Approaches and Challenges in Vehicle-to-Grid Systems
- Advanced Techniques for Security Assessment
- Security Testing Framework for Utilities
- Panel on Cybersecurity in Other Critical Infrastructures
- Updates from DHS and DOE
- Education and Outreach
- Deep Dive Sessions:
 - Time Synchronization in Wide Area Grid Measurement Systems
 - AMI - including privacy, demand response, security
 - Protection Systems and Cybersecurity
- Optional Hands-on SCADA Security Assessment Training Lab
- Lightning Talks (brief idea pitches from participants)
- Ameren Smart Grid Training Platform (Mobile Unit)
- Welcome and Networking Receptions

*Speakers and topics are subject to change. The most current version of the agenda will be available online at:

<http://tcipg.org/2013-summer-school-program>