

# Cyber Security for Smart Energy Systems Summer School



June 13–17, 2011

Q Center, St. Charles, Illinois

With support from the U.S. Department of Energy and U.S. Department of Homeland Security, the Trustworthy Cyber Infrastructure for the Power Grid (TCIPG) Center is proud to present the Cyber Security for Smart Energy Systems Summer School. The Summer School will explore the nexus between electrical energy systems and cyber security. It is intended for practitioners, researchers, and students.

Participants will obtain essential background in the basics of cyber security, and in the traditional generation, transmission, and distribution systems of the power grid. They will gain an understanding of how the power grid is evolving into a smarter energy system, with an emphasis on associated cyber security challenges. Experts from industry, national labs, academia, and government will lead sessions that include case studies from industry and examples from current research. Idaho National Laboratory will offer an optional, hands-on SCADA Security Lab, and participants will have ample opportunity to connect and network with leading experts, researchers, and practitioners in the field.

The Summer School will be held June 13–17, 2011 at the Q Center ([www.qcenter.com](http://www.qcenter.com)), which is located on a 95-acre wooded property on the Fox River in St. Charles, Illinois, just a 45-minute drive from Chicago's O'Hare International Airport.

The Cyber Security for Smart Energy Systems Summer School complements the other research and educational activities of TCIPG. TCIPG is funded by DOE and DHS. The 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 details on the Summer School, and registration information, please visit <http://www.tcipg.org/2011SummerSchool>.



## Partial List of Speakers

- **Anjan Bose**, WSU
- **Jeff Dagle**, PNNL
- **Herbert Falk**, SISCO
- **Carol Hawk**, DOE
- **Darren Highfill**, Utilisec
- **Diane Hooie**, DOE
- **Hank Kenchington**, DOE
- **Himanshu Khurana**, Honeywell
- **Annabelle Lee**, EPRI
- **Wayne Manges**, ORNL
- **Scott Mix**, NERC
- **Liam O Murchu**, Symantec
- **William H. Sanders**, UIUC
- **David Schooley**, ComEd
- **Sean Smith**, Dartmouth
- **Rita Wells**, INL
- **Dave Whitehead**, SEL
- **Andrew Wright**, N-Dimension

## INL Hands-on Lab: Intermediate SCADA Security

This year, participants will have the option of registering for a hands-on SCADA Security Lab led by Idaho National Laboratory. The lab is structured to help participants understand exactly how attacks against SCADA systems could be launched and why they work. Participants will also learn mitigation strategies to improve the cyber security posture of control system networks. Because the lab is hands-on, participants receive a deeper understanding of how the various tools work. Information security personnel, SCADA security personnel, network engineers, SCADA engineers/integrators, and developers would greatly benefit from this lab. A limited number of seats are available and will be assigned on a first-registered, first-served basis. Preference will be given to those registering for the full week of the Summer School.

## Registration and Hotel Information

The early registration fee for the full week of the Summer School is \$1,500. Participants also have the option to register for any two days of the week for \$1,000. Your fee includes all program materials, available breaks, and meals. The program begins the morning of Monday, June 13, 2011 and ends at noon Friday, June 17, 2011. A block of rooms has been reserved at the Q Center for the nights of June 12-16. For more information on how to register or reserve lodging, please visit <http://www.tcipg.org/2011SummerSchool>.

## Continuing Education Units

The University of Illinois Office of Continuing Education is offering one CEU for every 10 hours of participation in workshop activities at the TCIPG Summer School. Hence, full-week participants can earn a maximum of 3.2 CEUs. Please indicate during registration if you want to receive CEUs for your participation.

## Sponsorship Levels and Benefits

We also invite you to help us make this Summer School a success and at the same time give your organization some excellent visibility within the Smart Grid community; we would appreciate your support as a sponsor. It is projected that up to 200 industry practitioners, researchers, and students will attend. For more information and to confirm your sponsorship, please contact Scott Pickard, Associate Director of the Information Trust Institute (ITI) at (217) 333-3437 or [spickard@illinois.edu](mailto:spickard@illinois.edu). There are three sponsorship levels with the following benefits:

- **Bronze (\$500):** 1) logo will appear on pre-event promotional literature; 2) logo with hyperlink to homepage will be included on the Summer School website; and 3) logo will be displayed during the Summer School.
- **Silver (\$1,000):** All of the benefits of Bronze level, plus space for your vendor booth provided near the workshop amphitheater.
- **Gold (\$2,500):** All of the benefits of Silver level, plus exclusive sponsorship of either the "Welcoming Reception" (Sunday night) or the "Networking Reception" (Wednesday night), plus the opportunity to give a short presentation.