



Trustworthy Cyber Infrastructure for the Power Grid
 Summer School on Cyber Security for
 Smart Energy Systems – June 13-17, 2011

tcipg.org

Sunday, June 12

7:00 PM	Welcome Reception	Pavilion
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Monday, June 13

6:30 AM	Breakfast Opens	Q Center Dining
8:00 AM	Opening Remarks	Riverwoods Amphitheater
8:15 AM	Welcome Note <i>Hank Kenchington and Diane Hooie, Department of Energy Gregory Wigton, Department of Homeland Security</i>	Riverwoods Amphitheater
8:45 AM	Setting the Stage <i>Carol Hawk, Department of Energy Greg Wigton, Department of Homeland Security</i>	Riverwoods Amphitheater
9:30 AM	Break	
10:00 AM	Introduction to Power Systems <i>David Whitehead, Schweitzer Engineering Laboratories</i>	Riverwoods Amphitheater
11:30 AM	Lunch	Q Center Dining
1:00 PM	Cyber Security for Power Systems: An Introduction <i>Sean Smith, Dartmouth College</i>	Riverwoods Amphitheater
3:00 PM	Break	
3:30 PM	Introduction to Power Flow: The Power Grid at Steady State <i>Anjan Bose, Washington State University</i>	Riverwoods Amphitheater
5:30 PM	Adjourn	

Tuesday, June 14 – SCADA Lab meets in D202/04 from 1-7PM. Bring laptop and admission ticket.

6:30 AM	Breakfast Opens	Q Center Dining
8:00 AM	Wide Area Stability <i>Jeff Dagle, PNNL</i>	Riverwoods Amphitheater
9:30 AM	Break	
10:00 AM	NERC Cyber Security Standards: What's New, How Does Auditing Work, and How are They Developed? <i>Scott Mix, NERC</i>	Riverwoods Amphitheater
11:30 AM	Lunch	Q Center Dining
1:00 PM	Smart Grid Vulnerabilities <i>Rita Wells, Idaho National Laboratory</i>	Riverwoods Amphitheater (SCADA Lab 1-7PM D202/04)
2:30 PM	Break	
3:00 PM	Data Delivery Networks for Wide Area Measurement Systems <i>Himanshu Khurana, Honeywell</i>	Riverwoods Amphitheater
4:30 PM	Break	
4:45 PM	Smart Grid Community Outreach <i>Jana Sebestik, University of Illinois at Urbana-Champaign</i>	Riverwoods Amphitheater
5:30 PM	Adjourn – SCADA Lab meets until 7PM	

Wednesday, June 15

6:30 AM	Breakfast Opens	Q Center Dining
8:00 AM	Introduction to Power Grid Communication Protocols <i>Herbert Falk, SISCO</i>	Riverwoods Amphitheater
9:30 AM	Break	
10:00 AM	Secure Network Architecture for Control Systems <i>Andrew Wright, N-Dimension</i>	Riverwoods Amphitheater
11:30 AM	Lunch	Q Center Dining
1:00 PM	Smart Grid Technologies and Security: Primer & Technology Requirements <i>Darren Highfill, Utilisec</i>	Riverwoods Amphitheater
2:30 PM	Break	
3:00 PM	Stuxnet: Design, Delivery, and Destination <i>Liam O Murchu, Symantec</i>	Riverwoods Amphitheater
4:30 PM	Break	
5:00 PM	Networking Reception and Poster Session	Clubhouse Great Room
7:00 PM	Adjourn	

Thursday, June 16 – SCADA Lab meets in D202/04 from 1-7PM. Bring laptop and admission ticket.

6:30 AM	Breakfast Opens	Q Center Dining
8:00 AM	Secure Software is Critical for Secure Infrastructures <i>Chris Wysopal, Veracode</i>	Riverwoods Amphitheater
9:30 AM	Break	
10:00 AM	Design Principles for Cyber Security in the Smart Grid <i>Annabelle Lee, EPRI</i>	Riverwoods Amphitheater
11:30 AM	Lunch	Q Center Dining
1:00 PM	Wireless Communication Technologies in Electric Energy Systems <i>Wayne Manges, ORNL</i>	Riverwoods Amphitheater (SCADA Lab 1-7PM D202/04)
2:30 PM	Break	
3:00 PM	Wind Energy and the Electric Utility <i>David Schooley, ComEd</i>	Riverwoods Amphitheater
4:30 PM	Break	
4:45 PM	Research Updates <i>Summer School Participants</i>	Riverwoods Amphitheater
5:30 PM	Adjourn – SCADA Lab meets until 7PM	

Friday, June 17

6:30 AM	Breakfast Opens	Q Center Dining
8:00 AM	Building Resilient Infrastructures for Smart Energy Systems <i>William H. Sanders, University of Illinois at Urbana-Champaign</i>	Riverwoods Amphitheater
9:30 AM	Break	
10:00 AM	Power Systems Engineering and Cybersecurity <i>Carol Hawk, Department of Energy</i>	Riverwoods Amphitheater
10:45 AM	DHS Cyber Security Program and the Federal R&D Landscape <i>Doug Maughan, Department of Homeland Security</i>	Riverwoods Amphitheater
11:30 AM	Closing Remarks	Riverwoods Amphitheater
11:45 AM	Lunch	Q Center Dining