Cybersecurity in Cyber-Physical Systems Workshop
April 23 – 24, 2012

Agenda / Abstracts / Presentations

Monday, April 23rd

7:30 – 8:30am   Registration & Continental Breakfast

8:30am   Welcome – Introductions

Opening Remarks – George W. Arnold, Eng.Sc.D., NIST
(*Presentation*)

9am   **Implantable Medical Devices – Cyber Risks and Mitigation Approaches**
– Dr. Sabari Gupta
(*Presentation*)

10am   Break

10:15am   **Safety-Critical Automotive and Industrial Data Security** -- André
Weimerskirch
(*Presentation*)

11:15am   Keynote Speaker – Dr. Farnam Jahanian, NSF
(*Presentation*)

12:15pm   Lunch

1:15pm   **Security Challenges and Requirements for Control Systems in the
Semiconductor Manufacturing Sector** – Dr. Malek Ben Salem
(*Presentation*)

2:15pm   DHS Control Systems Security Program (CSSP) Overview – Tom Dion, DHS

2:45pm   Break

3pm   **Application of Dynamic System Models and State Estimation
Technology to the Cyber Security of Physical Systems** – Barry
Horowitz, Kate Pierce
(*Presentation*)

4pm   **Challenges of Cybersecurity Research in a Multi-user Cyber-Physical
Testbed** -- Thomas E. Carroll, Thomas Edgar, and David Manz
(*Presentation*)

Tuesday, April 24th

7:30 – 8:30am   Continental Breakfast

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8:30am   Welcome – Introduction

Opening Remarks – Charles H. Romine, NIST

9am   **Security of Power Grids: a European Perspective** -- Corrado Leita and Marc Dacier
(*Presentation*)

10am   Break

10:30am   **Understanding the Role of Automated Response Actions to Improve AMI Resiliency** -- Robin Berthier, Ahmed Fawaz, William H. Sanders, and Partha Pal
(*Presentation*)

11:30am   **Cyber-Physical Systems Security for the Smart Grid** -- Alvaro A. Cárdenas and Ricardo Moreno
(*Presentation*)

12:30pm   Lunch

1:30pm   **State Estimation and Contingency Analysis of the Power Grid in a Cyber-Adversarial Environment** -- Saman Zonouz , Robin Berthier, Rakesh Bobba, Matt Davis, and Kate Rogers
(*Presentation*)

2:30pm   Break

3:00pm   **False Data Injection Attacks in Smart Grid: Challenges and Solutions** – Wei Yu
(*Presentation*)

4:00 – 4:30pm   Wrap-up Panel – Suzanne Lightman, NIST; Mark Enstrom, NeuStar; TBD