

# 2012 Science of Security Community Meeting

Gaylord National Hotel & Convention Center  
Cherry Blossom Ballroom  
National Harbor, Maryland  
November 29-30, 2012

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## Thursday, November 29, 2012

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7:30 a.m. – 5:00 p.m. Registration

12:00 p.m. – 1:00 p.m. Box Lunch Pick Up

1:00 p.m. – 5:00 p.m. Science of Security Virtual Organization Help Desk

1:00 p.m. – 2:00 p.m. NSA Welcome and Opening Remarks  
**Part 1– Opening Keynote: How Does Science Advance?**  
*Peter Galison (Harvard)*

2:00 p.m. – 2:30 p.m. Break

2:30 p.m. – 4:00 p.m. **Part 2–Session A: Research Initiatives in Security Science**

2:30 p.m. – 3:00 p.m. **New UK Multi-University, Multi-Disciplinary Virtual Research Institute on “Science of Cybersecurity”**  
*Angela Sasse (University College, London)*

3:00 p.m. – 3:30 p.m. **New AFOSR Basic Research Initiative on “Cyber Trust and Suspicion”**  
*Eunice Santos (U Texas, El Paso)*

3:30 p.m. – 4:00 p.m. **Tools for Recognizing Useful Signals of Trustworthiness (TRUST)**  
*Adam Russell (IARPA)*

4:00 p.m. – 4:30 p.m. Break

4:30 p.m. – 6:00 p.m. **Part 2: Session B – Research Initiatives in Security Science**

4:30 p.m. – 4:45 p.m. **NSF: Frontier: Beyond Technical Security: Developing An Empirical Basis for Socio-Economic Perspectives**  
*Jeremy Epstein (NSF)*

4:45p.m. – 5:15 p.m. **DARPA: Overview of Current DARPA Programs that Address Scientific Foundations for Cybersecurity**  
*Howie Shrobe (DARPA)*

5:15 p.m. – 5:30 p.m. **ARL: Science of Cybersecurity from an ARL Perspective**  
*Rob Erbacher (ARL)*

5:30 p.m. – 6:00 p.m. **AFOSR: Science of Security MURI Overview**  
*Andre Scedrov (U Penn)*

6:00 p.m. – 8:00 p.m. **Poster Session for Science of Security Related Projects and Reception**  
*(Cherry Blossom Ballroom Atrium)*

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## Friday, November 30, 2012

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7:30 a.m. – 8:30 a.m. Continental Breakfast

7:30 a.m. – 8:30 a.m. Registration

8:30 a.m. – 4:00 p.m. Science of Security Virtual Organization Help Desk

8:30 a.m. – 10:00 a.m. **Part 3 – Security Science Perspectives**

8:30 a.m. – 9:15 a.m. **Historical Perspective: Where are We and How Did We Get Here?**  
*Fred Schneider (Cornell)*

9:15 a.m. – 10:00 a.m. **Panel Discussion - Industry Perspectives: What Industry Problems Motivate Research on Scientific Foundations?**  
*Jay Lala (Raytheon), Phil Venables (Goldman-Sachs), and Bret Hartman (Cisco)*

10:30 a.m. – 11:00 a.m. Break

11:00 a.m. – 12:30 p.m. **Part 4 – Organizing Security Science**

11:00 a.m. – 11:45 a.m. **Panel Discussion – Science of Security Lablets Propose A Hard Problems Structure That Can Be Used to Organize Their Current and Potentially Future Research**  
*David Nicol (UIUC), William Sanders (UIUC), William Scherlis (CMU), Laurie Williams (NCSU)*

1:45 a.m. – 12:30 p.m. **Reaction to the Panel Discussion Proposal**  
*Joshua Guttman (Worcester Polytechnic Institute)*

Group Discussion – Questions for discussion include:

- Does the structure capture the key problem areas for science of cybersecurity? If not, what areas are missing?
- Are there redundancies in the structure? Can it be simplified?
- Do we understand the scientific advances needed to address the problems listed?
- Could this structure feasibly provide a yardstick for scientific progress in this field?

12:30 p.m. – 1:00 p.m. **Box Lunch Pick Up**  
*(Reassemble in Cherry Blossom Ballroom)*

1:00 p.m. – 1:30 p.m. **(Working lunch)**  
**Introduction of the Science of Security Virtual Organization Website and Invitation to Participate**  
*Janos Sztipanovits (Vanderbilt)*

1:30 p.m. – 2:30 p.m. **Part 5 – Closing Address: Significance of Science in NSA Research, and Scientific Needs for Defense of Cyberspace**  
*Mike Wertheimer, Director of Research (NSA)*

2:30 p.m. – 2:45 p.m. Break

2:45 p.m. – 3:30 p.m. **SoS Community Meeting Summarization, Critique, and Reactions**  
*George Cybenko (Dartmouth)*  
*Dusko Pavlovic (Royal Holloway and Bedford New College, University of London)*  
*Moderator: Patrick Lincoln (SRI)*

Audience Discussion

3:30 p.m. **Meeting Adjourned**