2012 Science of Security Community Meeting Agenda

Submitted by Katie Dey on Wed, 08/08/2012 - 10:26pm


Over 150 leaders from government, industry, and the academic community met to discuss new and ongoing programs in security science being pursued by U.S. government research sponsors, and an exciting new Cybersecurity Research Institute recently established in the U.K. The presentations included work in a broad range of disciplines including mathematics, computer science, behavioral science, economics, physics, and biology. The meeting introduced a new Science of Security Virtual Organization website designed to promote research collaboration and community development. NSA’s Director of Research concluded the meeting with the announcement of a Cybersecurity Science Paper Competition.

PROGRAM AGENDA

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<th>Thursday, November 29</th>
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<tr>
<td></td>
<td>0730 - 1700</td>
<td>Registration</td>
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<td></td>
<td>1200 - 1300</td>
<td>Box Lunch Pickup</td>
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<td>1300 - 1700</td>
<td>Science of Security Virtual Organization Help Desk</td>
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<td>1300 - 1400</td>
<td>NSA Welcome and Opening Remarks</td>
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**Part 1: Opening Keynote**

How Does Science Advance?
Peter Galison (Harvard University)

1400 - 1430 Break

**Part 2: Research Initiatives in Security Science (Session A)**

1430 - 1500 New UK Multi-University, Multi-Disciplinary Virtual Research Institute on Science of Cybersecurity?
Angela Sasse (University College London)

1500 - 1530 New AFOSR Basic Research Initiative on "Cyber Trust and Suspicion"
Eunice Santos (University of Texas, El Paso)

1530 - 1600 Tools for Recognizing Useful Signals of Trustworthiness (TRUST)
Adam Russell (IARPA)

1600 - 1630 Break

**Part 2: Research Initiatives in Security Science (Session B)**
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Jeremy Epstein |
| 1645 - 1715 | DARPA: Overview of Current DARPA Programs that Address Scientific Foundations for Cybersecurity  
Howard Shrobe (DARPA) |
| 1715 - 1730 | ARL: Science of Cybersecurity from an ARL Perspective  
Robert Erbacher (ARL) |
| 1730 - 1800 | AFOSR: Science of Security MURI Overview  
Andre Scedrov (U Penn) |
| 1800 - 2000 | Poster Session for Science of Security Related Projects and Reception  
(Cherry Blossom Ballroom Atrium) |

**Friday, November 30**

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<tr>
<td>0730 - 0830</td>
<td>Continental Breakfast</td>
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<td>0730 - 1500</td>
<td>Registration</td>
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**Part 3. Security Science Perspectives**

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| 0900 - 0945 | Historical Perspective ? Where Are We and How Did We Get Here?  
Fred B. Schneider (Cornell University) |
Jay Lala (Raytheon), Phil Venables (Goldman-Sachs) and Bret Hartman (Cisco) |
| 1030 - 1100 | Break |

**Part 4: Organizing Security Science**

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| 1100 - 1145 | 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) |
| 1145 - 1230 | 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? |
| 1230 - 1300 | Box Lunch Pickup  
Reassemble in Cherry Blossom Ballroom |
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| 1300 - 1330 | *(Working Lunch)* [Introduction of the Science of Security Virtual Organization Website](#) and Invitation to Participate  
Janos Sztipanovits (Vanderbilt University) |
| **Part 5 - Closing Address** | |
| 1330 - 1430 | **Significance of Science in NSA Research, and Scientific Needs for Defense of Cyberspace**  
Dr. Michael Wertheimer (National Security Agency) |
| 1430 - 1445 | Break |
| 1445 - 1530 | **SoS Community Meeting Summarization, Critique, and Reactions**  
George Cybenko (Dartmouth) and Dusko Pavlovic (Royal Holloway and Bedford New College, University of London)  
Moderator: Patrick Lincoln (SRI)  
Audience Discussion |
| 1530 | Meeting Adjourned |

**ORGANIZATION**

**Program Committee**

Stuart Krohn, NSA  
Carl Landwehr, GWU  
Heather Lucas, NSA  
Brad Martin, NSA  
Ralph Wachter, NSF

**Organizers**

Katie Dey, Vanderbilt University  
Anne Dyson, Vanderbilt University  
Frankie King, Vanderbilt University