2015 Fall Research Review Agenda

Tuesday, October 20, 2015

9:00 a.m. **Breakfast** (Price Center Ballroom East, Muir room)

9:30 a.m. **Welcome and Round Table Introductions**
Stefan Savage, CNS Director and CSE Professor

9:45 a.m. **CNS Security Background**
Stefan Savage, CNS Director and CSE Professor

10:15 a.m. **Ecosystem Research** (Stefan Savage session chair)
- Affiliate Fraud and Cookie Stuffing (20mins)
  Neha Chachra (Voelker/Savage)
- Novel Abuse for Monetizing Cryptocurrencies (20mins)
  Danny Huang (Snoeren/Levchenko)
- Search Fraud and Interventions (20mins)
  Geoff Voelker

11:30 a.m. **Group photograph**

11:35 a.m. **Lunch** (Price Center Forum)

1:30 p.m. **Industry Talk: Fast-Sketch Hash: A fuzzy hashing technique for clustering and its applications for detecting malicious Javascript** (30mins)
Mark Hammell (Facebook)

2:00 p.m. **Low-level vulnerabilities** (Alex Snoeren session chair)
- On Subnormal Floating Point and Abnormal Timing (20mins)
  David Kohlbrenner (Shacham)
- Too LeJIT to Quit: JIT Spraying on the ARM (20mins)
  Wilson Lian (Shacham/Savage)

2:50 p.m. **Break and Informal Interaction**

3:20 p.m. **Industry talk: Blackmarket-driven Interventions: From Research to Practice** (50mins)
Kurt Thomas (Google)

4:10 p.m. **Software defenses** (Geoff Voelker session chair)
- Efficient CFI Enforcement for C++ Dynamic Dispatch (20mins)
  Dimitar Bounov (Lerner)
- Building Least Privileged Web Applications with Node.js (20mins)
  Deian Stefan

5:00 p.m. **Lightning talk round**

6:00 p.m. **Graduate Student Poster Session and Dinner Reception** (Great Hall)

*All sessions will be held in the Price Center Ballroom East, unless otherwise indicated.*
Wednesday, October 21, 2015

8:45 a.m.  CNS Advisory Board meeting (Price Center Ballroom East)

9:00 a.m.  Breakfast (Price Center Ballroom East, John Muir room)

9:30 a.m.  Industry talk: Data Analytics for Actionable Security and Risk Assessment (30mins)
Petros Efstathopoulos (Symantec)

10:00 a.m. Internet of Things (Kirill Levchenko session chair)

  Fast and Vulnerable: Exploring the Security of an OBD-II dongle (20mins)
  Stefan Savage

  Wireless Channels Vulnerabilities in Electrical SCADA (20mins)
  Karl Koscher

  Up in Sky: Towards a Security Analysis of Transport Aircraft (20mins)
  Kirill Levchenko

11:15  Open Floor (feedback from company representatives)

11:35 p.m.  Lunch (Price Center Forum) [lunch done by 1:00]

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