

Newsletter #3: September 2015

**Put on your Calendar: Workshop - December 2**

Our next (IC)³ workshop will have a specific focus on Cybersecurity of Legacy Systems - especially Industrial Control Systems (ICS). Issues to be addressed include:

- ICS Constraints & Long-term Architecture
- What to do now & How to transition
- Role of industry standards

Agenda will be coming shortly. If you are interested in being a panelist, please contact [smadnick@mit.edu](mailto:smadnick@mit.edu)

**Other Upcoming Events – November 18**

(IC)³ will be presented by Prof. Madnick in the Cybersecurity session of the [MIT ILP Research & Development](#) conference on November 18.

**Highlights of (IC)³ Workshop -- September 28**

A day-long workshop was held on September 28, in collaboration with the MIT Cybersecurity@CSAIL research group.

**Sept 28 (9am-2:30pm): (IC)³ Workshop**



David Schmittlein, Dean of the MIT Sloan School of Management, opens Workshop to capacity (actually over capacity) crowd

- Members: introductions, current activities, important issues and concerns
- Update on Vulnerability research (Michael Siegel and James Houghton)



Michael Siegel (left) and James Houghton (right) describe research on bug bounty programs and ways to discover vulnerabilities

- Update on House of Security research (Stuart Madnick)



Prof. Stuart Madnick (far right), Director of (IC)³, gives update on the House of Security research that measures perceptions of cybersecurity within an organization, then introduces several new research initiatives with assistance of Michael Coden (to his left), Associate Director of (IC)³

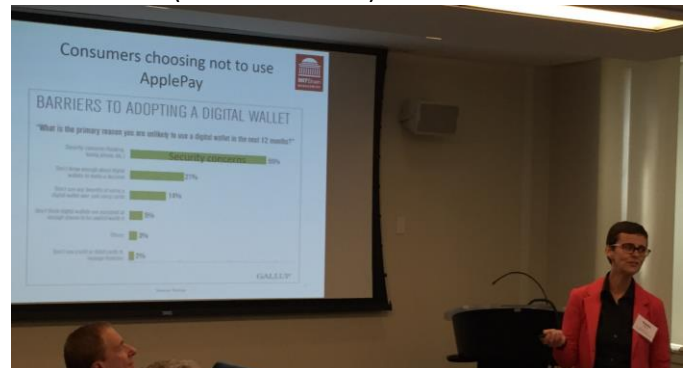
Short discussions on new proposed research initiatives

- Overview of some proposed initiatives, including possible study of impacts related to the White House and NIST Cybersecurity Frameworks
- Research into the categorization of cybersecurity educational programs and purposes (George Wrenn)



George Wrenn, of Schneider Electric and an (IC)³ Research Affiliate, describes preliminary study of various cybersecurity educational programs and longer-term goals

- Concern: “How does Cybersecurity Interact with Innovation?” (Natasha Nelson)



Natasha Nelson describes the goals of her research to study interaction about concerns of cybersecurity and innovation

- Wrap-up session (including discussion of themes for future workshops)

### Sept 28 (3pm-5:30pm): Panel on Cyber insurance

Joint (IC)<sup>3</sup> – Cybersecurity@CSAIL Meeting

- Dr. Howard Shrobe, Director of the MIT Cybersecurity@CSAIL initiative, opens with setting the stage for the conversation; discussing issues such as, UL helped fire code, what can insurance industry do for cyber, and research highlights that can impact the industry.



*Dr. Howard Shrobe presents some thoughts on cyber-security and insurance*

- Stuart Madnick introduces and moderates panel:
  - Oliver Brew, SVP, Liberty International Underwriters
  - Lon Berk, Partner, Hunton & Williams LLP
  - Joe Stanganelli, Principal, Beacon Hill Law
  - Matthew Brady, Senior Intel Analyst, Mass Mutual
  - Mike Curry, Deputy CISO, State Street
- Panelists introductions and opening position statement
- Moderated questions followed by Q&A with audience



*Panelists (from left to right): Lon Berk, Michael Curry, Matthew Brady, Joe Stanganelli, Oliver Brew*

- Closing remarks

### Sept 28 (6pm-7pm): Reception for all (IC)<sup>3</sup> and Cybersecurity@CSAIL members.

This was a great opportunity for the attendees to meet and network with each other and the (IC)<sup>3</sup> researchers.

### Sept 29 Cybersecurity@CSAIL Annual Meeting

(IC)<sup>3</sup> Partner-level members were invited to attend.

### (IC)<sup>3</sup> in the News

(IC)<sup>3</sup> was recently featured in the article “Cybersecurity experts: 'Brittle' security systems need overhaul” in the September issue of [TechTarget](http://www.techtarget.com). In it, Prof Madnick presents the analogy: “Think of today's enterprise cybersecurity defenses as a bank vault with 3-inch-thick steel doors and plywood walls ... -- heavily fortified and terribly vulnerable at the same time.”

### Recent Events and Activities

#### **(IC)<sup>3</sup> participates in the MIT Cybersecurity Summit at the Silicon Valley Executives Network (SVEN) on September 16-17.**

(IC)<sup>3</sup> and other colleagues at MIT were invited to present their cybersecurity research agendas at the SVEN event held at Intel HQ in Santa Clara to about 100 executives. A major goal of this event was to share cutting-edge thinking from MIT with senior Bay Area executives who govern budgets, and through networking and discussion, establish research collaborations.



*The MIT panelists at SVEN (from left to right): Prof. Alex (Sandy) Pentland, Dr. Ali Jadbabaie, Dr. Michael Siegel, Michael Coden (speaking), Dr. Howard Shrobe, and Brian Reynard, CEO SVEN*

In addition to participating in the panel sessions, Michael Siegel presented a keynote on the Cybersecurity of Critical Infrastructure and Michael Coden gave an overview of MIT-(IC)<sup>3</sup> and its Cybersafety and Cybersecurity Framework research programs. Follow-up meetings with some of the Silicon Valley CSO's have been scheduled.

### **About Cybersecurity at MIT:**

The MIT Interdisciplinary Consortium for Improving Critical Infrastructure Cybersecurity, (IC)<sup>3</sup>, is one of three cybersecurity programs at MIT. It is focused on the managerial, organizational, and strategic aspects of cybersecurity. The other two programs are Cybersecurity and Internet Policy Initiative (CIPI), focused on policy, and Cybersecurity@CSAIL, focused on improved hardware and software. More information on (IC)<sup>3</sup> can be found at <http://ic3.mit.edu>