INTERDISCIPLINARY CONSORTIUM for IMPROVING CRITICAL INFRASTRUCTURE CYBERSECURITY (IC)³

Newsletter #5: November-December 2015

Planning ahead: Save the dates 11-12 July 2016

for the (IC)³ Annual Conference – details coming soon.

Highlights of (IC)³ Workshop – 2 December 2015

In collaboration with the MIT Center for International Studies, Cybersecurity@CSAIL Sponsors were also invited

Location: MIT Sloan School, Cambridge, MA 02142

(IC)³ members have link to electronic copies of all the presentations to share within their organizations. Note: These are for internal use only.
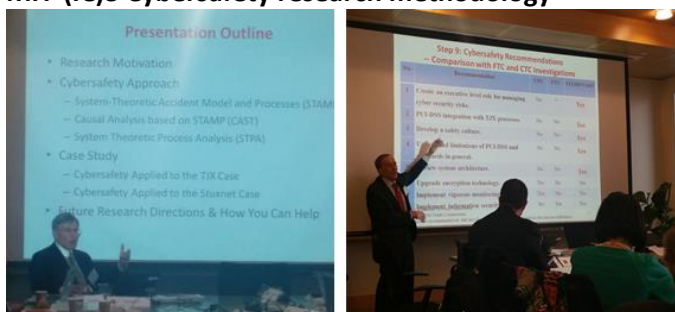

Jessica and Jocelyn greeting the members

Once again a packed room – with lots of excitement

MIT-(IC)3 Cybersafety research methodology

Stuart Madnick (right) introduces the (IC)³ Cybersafety Framework – with examples from TJX and Stuxnet; Michael Coden (left) elaborates upon some of the findings.

Assessing Cybersecurity of Maritime Critical Infrastructure by US Maritime Research Center (USMRC)


Capt. Alex Soukhanov (left) describes some of the USMRC findings from doing shipboard cybersecurity inspections

Masdar Institute (Abu Dhabi) Multilayered Approach to Assessing the Vulnerability of Critical Infrastructure
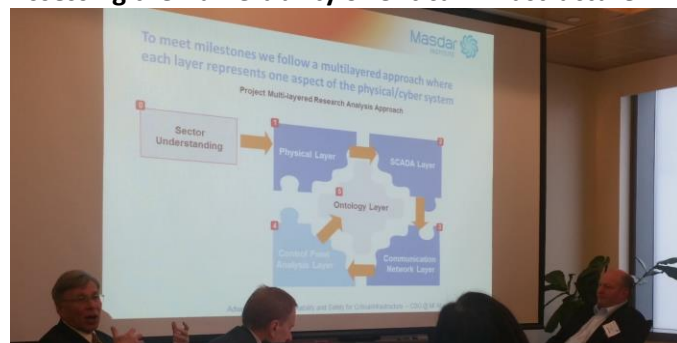
Sameh El Khatib of Masdar Institute was not able to attend due to illness, so Stuart Madnick (left) gives brief overview of their program

Data Driven Cyber Physical Security
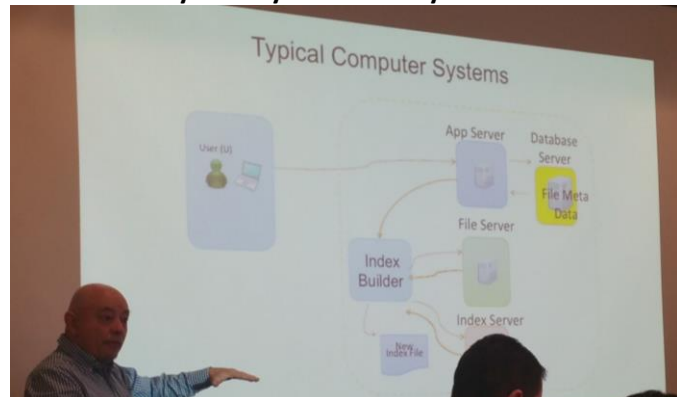
John Williams (left) and Abel Sanchez describe some of their simulation and modeling cybersecurity research

Cyber Resilient Energy Delivery Consortium (CREDC)

Tim Yardley, of University of Illinois Urbana-Champaign, describes CREDC and its collaboration with MIT-(IC)³

Overview of NIST Cybersecurity Frameworks and Experiences of Attendees

Presentation by Michael Coden, who also moderated the discussion

Update on the MIT-(IC)³ Board of Directors and Top Executive Education Initiative
Presentation by Michael Siegel

Panel on Cybersecurity of Industrial Control Systems
- Stuart Madnick moderated lively panel discussion by:
  ExxonMobil (Johan B. Nye, Senior Engineering Advisor)
  Idaho National Laboratory (Andrew Bochman, Sr. Cyber & Energy Security Strategist)
  Limelight Networks (Kurt Silverman, SVP, Development & Delivery)
  New York Power Authority (Lena Smart, VP, CIO)
  Yokogawa Electric (Jeff Melrose, Sr. Principal Technology Specialist – Cybersecurity)

Panelists (from left to right): Lena Smart, Andrew Bochman, Kurt Silverman, Jeff Melrose, Johan Nye

Post-Workshop Poster Session, Informal Discussions, and Reception @ MIT Sloan School Faculty Lounge

Lively discussions with researchers and their posters

Some of our international members attending: Adrian (HSBC, Belgium), Lenny Shrank (formerly SWIFT, Belgium), Franky Thrasher (Laborelec Engie, Belgium), Sabino Roberto Caporusso (BV Tech, Spain), Geert-Jan Wackers (Royal Dutch Shell, Netherlands)

Extra Memorable Event
In addition to exciting discussions, we have developed a tradition of extra memorable events. The Sept 28th workshop, by coincidence, coincided with a somewhat rare Supermoon Lunar Eclipse.

The Dec 2nd workshop had an unexpected memorable event – that is, the panel session was interrupted by a Fire Alarm. But it did give us a chance to get some fresh air and view the fine equipment of the Cambridge Fire Dept.

Recent Events and Activities
(IC)³ was presented by Prof. Madnick in the Cybersecurity session of the **MIT ILP Research & Development** conference on November 18.

(IC)³ members Michael Coden and George Wrenn were active participants at the **American Petroleum Industry (API) Cybersecurity Conference**.
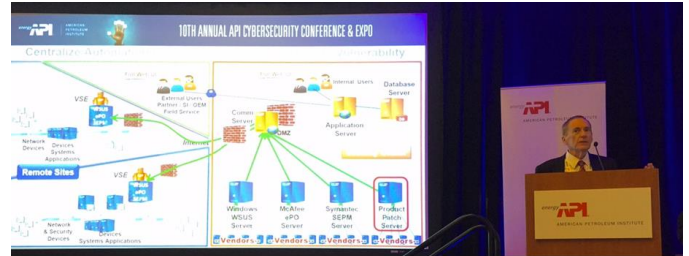
Michael Coden (upper), George Wrenn (left in lower photo) at API

Upcoming Conference & Workshop Appearances
(IC)³ is everywhere! More details in next newsletter
  Feb: CIS, CSAIL, ARC Forum, CERAWeek
  March: Cyber Security for Critical Assets USA, CREDC Industry Workshop,
  April: ILP ICT Conference, FinTech
  May: CIO Symposium

(IC)³ in the News
CyberSecurity and the Internet of Things
In December, Stuart Madnick was interviewed by Mike Collins about CyberSecurity and the Internet of Things (click to read full article).

About Cybersecurity at MIT:
The MIT Interdisciplinary Consortium for Improving Critical Infrastructure Cybersecurity, (IC)³, 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)³ can be found at http://ic3.mit.edu