INTERDISCIPLINARY CONSORTIUM for IMPROVING CRITICAL INFRASTRUCTURE CYBERSECURITY

MITSloan MANAGEMENT

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Newsletter #6: January-February 2016

Planning ahead: Save the dates 11-12 July 2016
for the (IC)³ Annual Conference – details coming soon.

(IC)³ Conference & Workshop Appearances

(IC)³ is everywhere! In particular, in February we were at: CIS, CSAIL, ARC Forum, CERAWeek
Even more activities in March and April.

Center for International Studies (February 8, 2016, Cambridge, Mass) – Joel Brenner, former NSA Inspector General, joined the MIT Center for International Studies (CIS) in 2014 and has been organizing a series of by-invitation-only gatherings of individuals from various critical infrastructure industries to discuss the key cybersecurity challenges. The February 7 session was focused on Oil and Natural Gas, in conjunction with the MIT Internet Policy Research Initiative (IPRI) and (IC)³, which was represented by Dr. Michael Siegel, Associate Director.

Cybersecurity@CSAIL (February 9, 2016, Cambridge, Mass) – The Cybersecurity@CSAIL initiative hosted a workshop on Cybersecurity and Industrial Control Systems, with a panel moderated by Dr. Michael Siegel and panel members: Dr. Howard Shrobe, Director of CyberSecurity@CSAIL; Daniel Barriuso, BP CISO; Matthew Mattina, ARM Director; Leandro Pfleger de Aguiar, Senior Security Engineer, Siemens, Dr. Dimitrios Serpanos, QCRI Principal Scientist.
At this workshop, panelists from industry, ICS system manufacturers and the research community discussed the challenges and opportunities regarding cybersecurity.
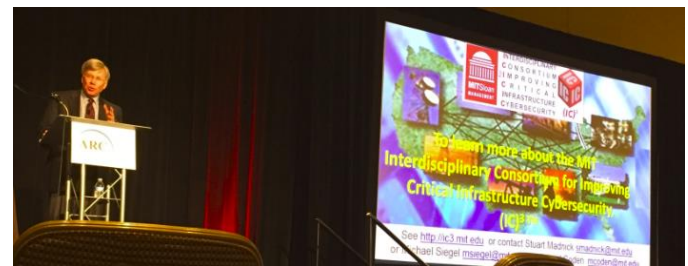
ARC Forum (February 8-11, 2016, Orlando, Florida) -- Over 700 participants attended the 20th Annual ARC Industry Forum in Orlando, representing 300 different companies and coming from more than 25 countries. The presentations reflected the Forum theme, "Industry in Transition: Navigating the New Age of Innovation," and served as a call to action for the automation industry.
(IC)³ Director, Prof. Stuart Madnick, was asked to give a presentation about (IC)³ and participate in an executive panel with Rob High (VP and Chief Technology Officer, IBM Watson Solutions), Michael

Dudzic (General Manager, ArcelorMittal), Carol Eidt (Automation & Process Control Division Manager, ExxonMobil Research and Engineering), and Paul Camuti (Sr. Vice President of Innovation and Chief Technology Officer, Ingersoll Rand.)

(IC)³ Director, Prof. Stuart Madnick arrives at ARC Industry Forum

At Industrial Cybersecurity Management session, Prof. Madnick presents an overview of (IC)³

Industry Executive Panel (Madnick, 2nd from left) - General Session

CERAWeek (February 22-26, 2016, Houston, Texas) -- IHS CERAWeek brought together leaders from the global energy community for dialogue and insight into the energy future – and responses to the current volatility and uncertainty. Participants encompass all regions and industry segments – oil, natural gas, power, coal, nuclear and renewables.
Speakers included people like: Enrique Peña Nieto, President, Mexico; HE Ali Al-Naimi, Minister of Petroleum & Mineral Resources, Kingdom of Saudi Arabia; Hon. Ernest Moniz, Secretary of Energy, US Department of Energy; Ben van Beurden, CEO, Royal

Dutch Shell; Jeffrey Immelt, Chairman & CEO, General Electric; etc. … and our own Michael Siegel, Associate Director of (IC)[3] talking about cybersecurity concerns.

You can see videos of some of Michael's interviews at http://www.theenergymakers.com/episodes/march-2016/episode-230.html (approx. 11 minutes in) http://www.thebusinessmakers.com/episodes/shows/2016/march-2016/episode-561/michael-siegel.html

Michael Siegel (right) on The BusinessMakers Show at CERAWeek

Upcoming Conference & Workshops

More details in next newsletter. Note special discounts for (IC)[3] members.

March: Cyber Security for Critical Assets USA, CREDC Industry Workshop,

April: ILP ICT Conference, FinTech

May: MIT CIO Symposium

July: MIT Chief Data Officer - Information Quality Symposium

May 18, 2016: MIT CIO Symposium

According to MIT Sloan research companies that thrive in the digital economy are 26% more profitable than their industry peers. These companies excel in the strategic use of data, in leading digital innovation, in creating new business opportunities through platform strategies, and in adapting to the changing nature of work and the workplace. The 2016 CIO Symposium will provide insights into ways CIOs can help their organizations Thrive in the Digital Economy.

Specific topics will include: Impact digital has on the nature of work, the workplace, and innovation; Big Data 2.0 and Data's Strategic Role; Platform Strategies, IoT, Cybersecurity, and Blockchain.

Special discount for (IC)[3] members: We arranged for (IC)[3] members to get a great 75% discount off general admission fee by using the code: 16-MITIC3-SAVE. Register at http://www.mitcio.com/register/

July 11-12, 2016: (IC)[3] Annual Conference … be sure to put this on your calendar!

We welcome up to 3 attendees from each organization, this is an opportunity to get one or two of your colleagues more deeply involved.

July 12-14, 2016: Chief Data Officer – Information Quality Symposium

The Chief Data Officer (CDO), by any name, is emerging as the central player in the business of creating value from data and addressing challenges such as cybersecurity. In its tenth year, the MITCDOIQ Symposium continues to explore the developing landscape, from local organizational issues to global challenges, through case studies from industry, academic, government and healthcare leaders.

Special discount for (IC)[3] members: We have arranged for (IC)[3] members to get a 25% discount by using the code: ICDO25. Several of our (IC)[3] members attended last year and gave great reviews. Register at http://www.mitcdoiq.org/

(IC)[3] in the News
CyberSecurity impact on MBA Programs

(IC)[3] was highlighted in an article on "Here's How Cyber Security, Big Data Are Edging Their Way Into Elite MBA Programs: Information management topics trendy at top business schools" in Business Because about the increasing role of cybersecurity in Business Schools. Dr. Madnick was quoted: "companies need people in decision making roles that understand the consequences of cyber attacks. [But] that expertise is lacking."

GE Moving Headquarters to Boston

Dr. Madnick was interviewed by the *Boston Globe* for an article entitled "GE Brings Internet Power to Boston" regarding GE's decision to move its headquarters to Boston. Among his comments, he noted: "They're trying to do things that have never been done before … With all these challenges, cybersecurity is often last on the list." He pointed to the hacker attack on the Ukrainian power grid last month, which left more than 225,000 homes and businesses in the dark and cautioned: "I think the worst is yet to come."

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