ESD News

Daniel Livengood, Ray O’Mara, and Jorge Fradinho have all successfully defended their dissertations. Details below:

Daniel Livengood
Title: "The Energy Box: Comparing Locally Automated Control Strategies of Residential Electricity Consumption under Uncertainty."
Committee: R. Larson (chair), S. Graves, J. Kirtley

Ray O’Mara
Title: "The Socio-Technical Construction of Precision Bombing: A Study of Shared Control and Cognition by Humans, Machines, and Doctrine during World War II."
Committee: D. Mindell (chair), S. Widnall, O. Coté

Jorge Fradinho
Title: "Towards High Performing Hospital Enterprise Architectures: Elevating Hospitals to Lean Enterprise Thinking."
Committee: D. Nightingale (chair), J. Sussman, S. Madnick

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Professor Ken Oye is a 2011 recipient of the James A. and Ruth Levitan Award for Excellence in Teaching. This award recognizes SHASS teachers—whether professors, lecturers, or graduate teaching assistants—who have made a profound difference in the educational experience of MIT undergraduates.

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Nancy Leveson recently gave testimony to the Senate Committee on Energy and Natural Resources about how to implement the recommendations of the Presidential Oil Spill Commission and prevent future accidents in the offshore oil and gas industry.

Working Paper

A new paper has been added to the ESD Working Papers series:

"Introducing Complex Sociotechnical Systems to First- and Second-Year Students"
Joseph M. Sussman, JR East Professor of Civil and Environmental Engineering and Engineering Systems, MIT
Afreen Siddiqi, Research Scientist, Engineering Systems Division, MIT
Regina Clewlow, PhD Candidate, Engineering Systems Division, MIT
Read this and other working papers at: http://esd.mit.edu/WPS/default.htm
IN THE MEDIA

Yossi Sheffi quoted in article about supply chain disruptions following Japan earthquake
“US and Europe Escape Worst of Quake’s Aftershock”
Financial Times – May 19, 2011
http://ctl.mit.edu/news/us_and_europe_escape_worst_quakes_aftershock

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Missy Cummings quoted in Smithsonian magazine article on unmanned drones
“Drones are Ready for Takeoff”
Smithsonian magazine – June 2011
http://www.smithsonianmag.com/science-nature/Drones-are-Ready-for-Takeoff.html

Also, Prof. Cummings quoted in article about airplane safety
“Why Airplanes Are Safe”
Business Travel – Executive Travel – May 16, 2011
http://www.executivetravelmagazine.com/articles/why-airplanes-are-safe

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Jessika Trancik talks about new research on which technologies are likeliest to advance rapidly
“Which technologies get better faster?: New analysis helps predict which new systems will be on a fast track to improvements in performance.”
MIT News – May 17, 2011

This was listed as one of this week’s “most-viewed” and “most-e-mailed” news stories on the MIT website, and received substantial coverage including:

  MSNBC Cosmic Log (science blog) – May 19, 2011
  http://cosmiclog.msnbc.msn.com/_news/2011/05/19/6676049-model-could-id-climate-solving-tech

  Chem.Info – May 17, 2011
  http://www.chem.info/News/Feeds/2011/05/topics-alternative-energy-which-technologies-get-better-faster/

  R&D Magazine – May 17, 2011

  PhysOrg.com – May 17, 2011

  TGDaily – May 18, 2011
  http://www.tgdaily.com/general-sciences-features/56014-which-technologies-improve-the-fastest

  The Future of Things – May 18, 2011

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Ernest Moniz quoted in coverage of draft recommendations from the White House commission on spent nuclear fuel
“U.S. Panel Suggests Moving Used Nuclear Fuel to Interim Sites”
Science – May 15, 2011

“Nuclear Nations Turn to Natural Gas and Renewables”
NPR – May 16, 2011
(Interview also includes MIT’s Richard Lester)

“Fukushima Disaster Deepens U.S. Turmoil Over Nuclear Waste Storage”

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John Hansman quoted in article about GE’s new “green” technology for the Air Force
“GE’s ‘green’ engine offers new chance with military”
Boston.com – May 16, 2011

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Michael Cusumano discusses the internet’s free future
“Google and the NFL: Saviours of the free internet?”
Silicon.com – May 18, 2011

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MIT AgeLab’s Bryan Reimer talks about developing technologies for safer driving
“Focus on Aging: Engineering Safer Drivers”
ScienceCareers (affiliated with Science magazine) – May 20, 2011
http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2011_05_20/caredit.a1100044

Also, other AgeLab coverage:
“Life Tomorrow: A Look Inside the MIT AgeLab”
Big Think – May 14, 2011
http://bigthink.com/ideas/38367

EVENTS

Monday, May 23, 2011
SDM Systems Thinking Webinar
Time: 12pm-1pm
"The Changing Nature of Research and Innovation in the 21st Century"
Irving Wladawsky-Berger, PhD Chairman Emeritus, IBM Academy of Technology, Visiting Lecturer of Engineering Systems
Tuesday, May 24 – Wednesday, May 25, 2011  
(May 24 from 9am-5pm and May 25 from 9am-12noon)  
**Supply Chain Masters Research Fest 2011**  
Location: MIT Faculty Club - 6th floor, located at 50 Memorial Drive (E52)  
Every year, graduating master’s students present their theses to the Center's corporate Supply Chain Exchange Partners. This one and one-half day event (full day on Tuesday May 24 and half-day on Wednesday May 25) is a chance for Partners to hear the results of new student research, much of which has been done with Exchange Partners.  
Agenda: [http://ctl.mit.edu/sites/default/files/ResearchFest%20Agenda%20v2.pdf](http://ctl.mit.edu/sites/default/files/ResearchFest%20Agenda%20v2.pdf)

**Tuesday, May 24, 2011**  
ESD Faculty Lunch  
Time: **12pm-1:30pm**  
Location: E40-298  
Joe Sussman will give an update on the undergrad committee

**Thursday, May 26, 2011**  
NECSI and ESD Seminar  
Jeff Fuhrer, Federal Reserve Bank of Boston  
Time: 12:30pm-2pm  
Location: E51-145  
[http://www.necsi.edu/events/upcomingevents.html](http://www.necsi.edu/events/upcomingevents.html)

**Friday, May 27, 2011**  
CTL Distinguished Speaker Series  
Time: 12:30-1:30pm  
Location: 1-131  
Complimentary lunch served at 12:15pm; Lecture begins at 12:30 pm  
Topic: The CREATE Program – Decongesting Rail Traffic in Chicago  
Contact: vhannan@mit.edu

**Tuesday, May 31, 2011**  
ESD Faculty Lunch  
Time: 12pm-1:30pm  
Location: E40-298

**Monday, June 6, 2011**  
SDM Systems Thinking Webinar  
“How to Manage a Profitability Turnaround”  
Jonathan L.S. Byrnes, Senior Lecturer, MIT  
Time: 12pm-1pm  

**Tuesday, June 14, 2011**  
SDM Information Evening  
Time: 6pm-9pm  
Location: Boston Marriott Quincy Hotel 1000 Marriott Drive, Quincy, MA  
Please join us at the MIT Faculty Club for an Information Evening on the System Design and Management (SDM) program. You will have the opportunity to learn more about this exciting program designed for future technology-based leaders, discuss career opportunities, and network with SDM alumni, faculty, students, and staff.  

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