ESD NEWS

The National Academy of Engineering has announced it will honor Professor Edward Crawley with the nation’s most prestigious engineering education award: the $500,000 Bernard M. Gordon Prize for Innovation in Engineering and Technology Education. NAE is citing Crawley for his creation of the Conceive, Design, Implement, Operate (CDIO) educational initiative at MIT in 2000.


IN THE MEDIA

Yossi Sheffi comments on air cargo screening and recent weather-related air travel delays
“Cargo that flies over the United States doesn't get screened to federal standards”
The Washington Post – December 27, 2010
http://www.washingtonpost.com/wp-dyn/content/article/2010/12/26/AR2010122601795.html

“Report: Cargo on 'Overflights' Isn't Screened Like U.S.-Bound Shipments”
WBUR – December 27, 2010

“Passengers stuck days after blizzard”
CNN – Anderson Cooper 360 – December 29, 2010

“Weather to blame for flight delays”
CNN – The Situation Room - December 29, 2010

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New York Times opinion pieces about improving air travel in bad weather
“Just Do the Math” by John Hansman

“Algorithms to Beat the Weather” by Hansma Balakrishnan

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Richard Larson talks about the science of standing in line
“Queues got you blue? Line up here...”
The Boston Globe - December 23, 2010

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John Sterman’s climate change research referenced
“Polar bear, Arctic sea ice all-but doomed: Misleading Nature cover story misleads the media, public”
Climate Progress – December 20, 2010

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Eric von Hippel quoted in Wired article on the changing landscape of product design and manufacturing
“In the Next Industrial Revolution, Atoms Are the New Bits”
Wired – January 7, 2011
http://www.wired.com/magazine/2010/01/ff_newrevolution/all/1 

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Article on space airbag project of Aero/Astro graduate student Sydney Do and thesis advisor Olivier de Weck
“Personal Cushion of Air”
The Future of Things – December 11, 2010

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Letter by Richard Larson about self-checkouts in stores
“Robo the riveter?”
The Boston Globe – January 5, 2010
http://www.boston.com/bostonglobe/editorial_opinion/letters/articles/2011/01/05/robo_the_riveter/ 

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Harvard Business Review blog post about health care by Steven Spear
“Why Best Practices Haven't Fixed Health Care”

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PUBLICATIONS

Suh E.S., de Weck O.L., and Chang D., “Flexible product platforms: framework and case study”,
Read online: http://www.springerlink.com/content/91887273u7355w47/fulltext.html
This is currently the most frequently downloaded paper from the journal Research in Engineering Design.

“Goals for space exploration based on stakeholder value network considerations” - Bruce G. Cameron, Theodore Seher, Edward F. Crawley, Acta Astronautica, Available online December 14, 2010
Read online: http://bit.ly/dM0e50
WORKING PAPERS

Three new papers have been added to the ESD Working Paper Series:

**The Portuguese High Speed Rail Network; Relating Financing to Strategic and Operating Issues**
João de Abreu e Silva, Instituto Superior Técnico
Duarte Silva, RAVE
Joseph Sussman, MIT

**The Dynamics of Circular Migration in Southern Europe: An Example of Social Innovation**
Rafael Marañón-Abreu, MIT
Estrella Gualda Caballero, Universidad de Huelva
Ricardo Valerdi, MIT

**Price of Airline Frequency Competition**
Vikrant Vaze, MIT
Cynthia Barnhart. MIT

Read these and other working papers at: [http://esd.mit.edu/WPS/default.htm](http://esd.mit.edu/WPS/default.htm)

EVENTS

**Monday, January 10, 2011**
Engineering Systems Research - Special Seminar Series
Speaker: Samuel Arbesman, research fellow in the Department of Health Care Policy at Harvard Medical School; affiliated with the Institute for Quantitative Social Science at Harvard University
Title: How to Model Progress: Discovery, Innovation, and Prosocial Behavior
Time: noon-1:30pm
Location: E40-298

**Wednesday, January 12, 2011**
Issues in Technology and Policy Seminar Series (sponsored by TPP)
“Global Politics of Mercury Pollution: An Inside Look at Treaty Negotiations”
Noelle Eckley Selin, Assistant Professor, Engineering Systems Division and Department of Earth, Atmospheric, and Planetary Sciences
Time: noon–1:30 pm
Location: E51-145

**Thursday, January 13, 2011**
MIT SCALE Network Poster Session
Location: MIT Media Lab: E14, 6th floor
Time: 4pm
The MIT SCALE Network Poster Session features research projects currently being conducted by master’s students in collaboration with company partners. There will be more than 75 students from the MIT SCALE Network spanning all three centers: MIT CTL (SCM), Zaragoza Logistics Center (ZLOG) and Center for Latin American Logistics Innovation (GC-LOG). Followed by Networking Night
More details: [http://ctl.mit.edu/events/scm_poster_session_2011](http://ctl.mit.edu/events/scm_poster_session_2011)

**Tuesday, January 18, 2011**
Engineering Systems Research - Special Seminar Series
Speaker: Turgay Ayer, PhD candidate in the Department of Industrial and Systems Engineering at the University of Wisconsin-Madison. His research focuses on the development of applied mathematical
models to support decisions made under uncertainty in a variety of real-world problems, especially in healthcare.
Title: Personalizing Breast Cancer Screening Policies
Time: noon-1:30pm
Location: E40-298

Wednesday, January 19, 2011
Issues in Technology and Policy Seminar Series (sponsored by TPP)
“IT-Enabled Electricity Services: The Missing Piece of the Environmental Puzzle”
Marija Ilic, Visiting Professor, MIT Engineering Systems Division (Professor of Electrical & Computer Engineering and Engineering & Public Policy, Carnegie Mellon University
Time: noon–1:30 pm
Location: E51-145

Wednesday, January 26, 2011
Issues in Technology and Policy Seminar Series (sponsored by TPP)
“Status and Evolution of the US Air Traffic Control System”
John Hansman, Professor of Engineering Systems and Aeronautical & Astronautical Engineering
Time: noon–1:30 pm
Location: E51-057

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