ESD NEWS

ESD PhD and TPP alumna Erica Fuchs has been named a “Top 40 under 40 Young Scientist” by the World Economic Forum and the InterAcademy Panel on International Issues. (Read more.) An associate professor in the Department of Engineering and Public Policy at Carnegie Mellon University, she was presented with the award this week at the World Economic Forum’s “Summer Davos,” held in China. See the full news item in the Pittsburgh Business Times: "CMU professor named 40 under 40 by World Economic Forum" (which was also included in the most recent American Society for Engineering Education (ASEE) "First Bell" newsletter). Award recipients are selected from nominations by 100 academies of science from around the world. Fuchs’s research focuses on the role of government in technology development and the impact of location on the competitiveness of new technologies.

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The Production in the Innovation Economy (PIE) conference will be held at MIT on Friday, September 20. This day marks the conclusion of the PIE effort and the release of two books published by MIT Press, Making in America: From Innovation to Market and Production in the Innovation Economy. View full conference agenda here. ESD faculty members and staff served on the PIE Commission. Prof. Olivier de Weck has served as executive director of PIE since late 2010, and will continue in this role until completion of the study next week. Other ESD contributors include: Prof. Dave Hardt (MechE and ESD), Dr. Don Rosenfield (LGO), Jesse Jenkins (TPP), Florian Metzler (TPP), Daniel Naeff (ESD visiting student from ETH Zurich) and Andrew Oswald (SDM).

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The 2014 CESUN Conference - 4th International Engineering Systems Symposium (June 8-11, 2014, hosted by Stevens Institute of Technology) has issued its call for papers. Satellite workshop and seminar proposals are due on November 1, 2013 and the deadline for abstract submission and tutorial proposals is November 15, 2013. Read more about the topics and deadlines here.

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MIT BLOSSOMS presents a new, student-produced lesson, “The Monty Hall Problem or How to Outsmart a Game Show and Win a Car.” Read more about this and other news in the latest BLOSSOMS newsletter.

PUBLICATIONS

“Too Many PhD Graduates or Too Few Academic Job Openings: The Basic Reproductive Number R0 in Academia” (Richard C. Larson, Navid Ghaffarzadegan and Yi Xue) Systems Research and Behavioral Science (2013) - Published online in Wiley Online Library
“Forest fire management to avoid unintended consequences: A case study of Portugal using system dynamics” (Ross D. Collins, Richard de Neufville, João Claro Tiago Oliveira, Abilio P. Pacheco), *Journal of Environmental Management*, Volume 130, 30 November 2013 (Paper is currently available online via ScienceDirect) Note: This research was part of the FIRE-ENGINE collaboration, which is under the auspices of the MIT-Portugal program.


“Rule-based System Architecting of Earth Observing Systems: The Earth Science Decadal Survey” (Daniel Selva, Bruce G. Cameron, Edward F. Crawley), In *Journal of Spacecraft and Rockets* (Accepted for publication, 2013)

**IN THE MEDIA**

Coverage of research of the MIT Megacities Logistics Lab, led by Edgar Blanco

“In the World: Mapping the logistics of megacities”
MIT News – September 9, 2013 (MIT homepage spotlight) Also, Blanco wrote a guest post for the Connect blog: “Megacities are the New Logistics Frontier” - August 29, 2013

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Sandy Pentland discusses the lack of data scientists
“Not enough data scientists, MIT expert tells Computing”

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Op-ed co-written about the Massachusetts Education Partnership by Thomas Kochan in The Boston Globe
“A fresh approach to improving student outcomes”
The Boston Globe – September 3, 2013

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Article/video featuring Olivier de Weck in the MIT Industrial Liaison Program newsletter/website
“Future Proofing: Engineering for Change”
MIT ILP Institute Insider – September 12, 2013

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James Utterback quoted in Washington Post blog post on the fall of Nokia
“Why Nokia lost, and Samsung won”

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Michael Cusumano quoted in item on Facebook
“Facebook stock hits record high at $45.62”
San Francisco Chronicle – September 12, 2013
Article about recent LGO grads and their start-up, Podmetrics
“Recent LGO grads go into business with medical-device startup”
LGO website – August 27, 2013

EVENTS

Tuesday, September 17, 2013
ESD Faculty Lunch
Time: 12-1pm
Location: E40-298

Wednesday, September 18, 2013
MIT ESS Doctoral Symposia
Speaker: Lita Das
Title: The impact of bimodal and lognormal distributions of transit time on ocean transportation logistics
Time: 12-1pm
Location: E40-298
RSVP here.

Wednesday, September 18, 2013
MIT Sociotechnical Systems Research Center (SSRC): Conversations on Sociotechnical Systems
Noelle Eckley Selin will present "Systems Approaches to Managing Toxic Air Pollution."
Time: 4:15-5:30pm
Location: E38-615
Light refreshments will be served.
SSRC brings together faculty, researchers, students, and staff from across MIT with partners from around the world to study complex systems challenges that span health care, government, industry, and the service sector.

Friday, September 20, 2013
FYI – Production in the Innovation Economy (PIE) Conference
Location: 10-250
Details available here.

Monday, September 23, 2013
MIT SDM Systems Thinking Webinar Series
A Systems Approach to Airport Planning, Design, and Management
Richard de Neufville, Ph.D. - Professor of Engineering Systems and of Civil and Environmental Engineering, MIT
Time: 12-1pm
Register here

Friday, September 27, 2013
MIT Center for Transportation and Logistics: Distinguished Speaker Series
Speaker: Pier Luigi Sighismondi, Chief Supply Chain Officer at Unilever
Time: 12-1pm (A light lunch will be served at 11:45am.)
More details here.

Tuesday, October 1, 2013
MIT’s Center for Biomedical Innovation’s Biotechnology & Standards Conference
Location: Broad Institute, 7 Cambridge Center
Title: The Prospects for a Life Sciences and Standards Revolution
This is a day-long conference and is open to the public. Registration is required.
Tuesday, October 1, 2013
ESD Faculty Lunch
Time: 12-1pm
Location: E40-298

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