All events held in Room 1-131, unless otherwise noted. Presentations and panels open to CEE female postdocs & senior graduate students (RSVP required for lunch on Oct 24, please contact Colette Heald). Faculty welcome throughout except lunches.

Thursday, October 24, 2019

8:30 a.m.-9:00 a.m. Welcome from Dean of Engineering and Professor Anantha Chandrakasan
Welcome from CEE Department Head and Professor Markus J. Buehler
Welcome from Professor Colette Heald, Chair of CEE Rising Stars Steering Committee

9:00 a.m.- 9:30 a.m. Introductions (1 minute elevator pitch!)

9:30 a.m.-10:30 a.m. 5 Research Talks (10 min each)
“A User-Centered Approach to Transportation Systems Planning and Design”, Faaiqa Shaw (Georgia Institute of Technology)
“Facility Location for Disaster Relief Distribution based on the Continuous Approximation of Total Social Costs”, Diana Ramirez-Rios (Rensselaer Polytechnic Institute)
“Unintended consequences of energy sector decisions and policies on drinking water vulnerability”, Kelly Good (Villanova University)
“Understanding the impact of climate extremes and wildfires on Californian watersheds using an integrated hydrologic model”, Fadji Maina (Lawrence Berkeley National Laboratory)
“Urine the cloud: Control of urea hydrolysis in urine diversion systems based on use frequency”, Daniella Saetta (Arizona State University)

10:30 a.m. – 11:00 a.m. Coffee Break

11:00 a.m. – 11:45 a.m. Presentation and Discussion with MIT Chancellor Cynthia Barnhart

11:45 a.m.- 12:00 p.m. CEE graduate student & postdocs introductions (1 minute elevator pitch!)

12:00 p.m.-12:45 p.m. Lunch with CEE graduate students & postdocs (in 1-114)

12:45 p.m.-1:45 p.m. 5 Research Talks (10 min each)
“Control of Opportunistic Pathogens in Drinking Water Systems by Phage Therapy”, Elyse Stachler (EAWAG)
“Beyond the “Omics” crystal ball: Integrating omics approaches to model microbial community responses to the Deepwater Horizon oil spill”, Smruthi Karthikeyan (Georgia Institute of Technology)
“Understanding and Preventing Waterborne Pathogen Transmission: Bridging the gap between scientific knowledge and practical application”, Sara Beck (EAWAG)
“Climate shocks, agriculture and trade”, Nicole Jackson (University of Illinois, Urbana-Champaign)
“Reducing Agricultural Environmental Waste Using Life Cycle Assessment”, Yetunde Sorunmu (SUNY Albany)

1:45 p.m.-2:00 p.m.  Coffee Break
2:00 p.m.-3:00 p.m.  Panel #1: The Job Search & Interview Process (in 1-114)
                    With Professors Markus Buehler, Dave Des Marais, Ali Jadbabaie, Heidi Nepf
3:00 p.m.-3:30 p.m.  Coffee Break
3:30 p.m.-4:30 p.m.  Panel #2: The First Few Years of a Faculty Career (Mentoring, Promotion & Tenure)
                    With Professors Saurabh Amin, Otto Cordero, Colette Heald, Franz Ulm
4:30 p.m.-5:30 p.m.  MIT Campus Tour
6:00 p.m.-8:00 p.m.  Dinner with MIT faculty (Evoo Restaurant, 350 Third Street, Cambridge)
Friday, October 25, 2019

8:50 a.m. – 9:00 a.m.  Instructions for travel reimbursement, feedback forms (coffee served)

9:00 a.m. – 11:00 a.m.  10 Research talks (10 min each)
“Atmospheric chemical transformations: from tree emissions to particle formation”, Emma D’Ambro (US EPA)
“Using space-based observations to guide emission control strategies for surface ozone pollution”, Xiaomeng Jin (Columbia University)
“The Atmospheric Chemistry in the Indoor Environment”, Chen Wang (University of Toronto)
“Role of natural organic matter in methane emissions from northern peatlands”, Prachi Joshi (ETH-Zurich)
“Safer by design: predicting properties of new nanomaterials”, Natalia Sizochenko (Dartmouth College)

BREAK

“Computational Analysis of Energy Barriers in the Bottom-Up Design of Small Scale Smart Material Systems”, Mahnoush Babaei (Carnegie Mellon University)
“Biomechanical modeling for wrinkling phenomenon in the internal elastic lamina of arteries”, Nhung Nguyen (University of Pittsburgh)
“Autonomous morphing of structural form under winds”, Fei Ding (University of Notre Dame)
“Sensing for Decisions to Enhance Societal Resilience”, Katherine Flanigan (University of Michigan)
“Physics-guided information acquisition and learning for urban infrastructure systems with constrained sensing capabilities”, Susu Xu (Qualcomm AI research)

11:00 a.m. – 11:30 a.m.  Coffee Break

11:30 a.m. – 12:30 p.m.  Panel #3: Work-Life Balance (Time Management, Career & Family)
   With Professors Tal Cohen, Jesse Kroll, Benedetto Marelli, and Desiree Plata

12:30 p.m. – 1:30 p.m.  Group Photo and Lunch

1:30 p.m. – 2:30 p.m.  Discussion of specific challenges facing women during faculty career
   With Professors Penny Chisholm, Tal Cohen, Colette Heald, Tami Lieberman, Caitlin Mueller, Heidi Nepf

2:30 p.m.  Adjourn