



Schedule of Events

8:30 AM	Registration and Breakfast	ESB Courtyard
9:00 AM	Welcome	ESB 1001
9:15 AM	Session I: <i>Bioengineering of non-model organisms</i>	ESB 1001
9:15 – 9:40	<i>Dow Discovery Lecture:</i> Developing a genome-scale model of Neocallimastigomycota fungi as a platform for metabolic engineering	St. Elmo Wilken
9:40 – 10:05	Harnessing the potential of rumen fungi for the discovery of new antibiotics	Candice Swift
10:05 – 10:30	Characterizing anaerobic fungal transport proteins for enhanced lignocellulosic hydrolysate fermentation	Igor Podolsky
10:30 AM	Break	ESB Courtyard
10:45 AM	Session II: <i>Complex fluids and soft materials processing</i>	ESB 1001
10:45 – 11:10	(Self-Assembled-Monolayer) SAM-free, selective spin dewetting	Alex Zhang
11:10 – 11:35	Understanding flow-concentration coupling in entangled polymer solutions	Mike Burroughs
11:35 – 12:00	Engineering microstructural order in anisotropic nanoparticle dispersions using complex flows	Patrick Corona
12:00 PM	Lunch	ESB Courtyard
1:00 PM	Poster Session	ESB Courtyard
2:00 PM	Industry Keynote Lecture	ESB 1001
	Chemical reactor scale-up: Principles and practice at Dow	Dan Hickman, PhD (Dow)
2:30 PM	Session III: <i>Inorganic materials and catalysis</i>	ESB 1001
2:30 – 2:55	Identifying single atom rhodium active sites in automotive nitric oxide reduction catalysis	Chithra Asokan
2:55 – 3:20	Influence of surface interactions and local structures on the hydration of cementitious solids	Nathan Prisco
3:20 – 3:45	Conversion of sugar acids to adipates via tandem catalysis: a route to renewable nylon	Jun Hee Jang
3:45 PM	Break	ESB Courtyard
4:00 PM	Session IV: <i>Functional bio-inspired materials</i>	ESB 1001
4:00 – 4:25	Electrostatic environment of Proteorhodopsin tunes the pKa of its buried primary proton acceptor	Chung-Ta Han
4:25 – 4:50	Adhesion of mussel-inspired materials	George Degen
4:50 – 5:15	Bioelectronic composites using conjugated polyelectrolytes: New living materials for harnessing bioelectrochemical pathways	Samantha McCuskey
5:15 PM	Conclusion	ESB 1001
5:30 PM	Reception Dinner and Award Ceremony	ESB Courtyard
	Industry guests, faculty and presenters are all welcome	
8:30 PM	End of Reception Dinner and Award Ceremony	