Materials Science Undergraduate Education Conference 2019
Penn State, University Park
September 9-11, 2019

Preliminary Agenda
“The Enrollment Floodgates Are Open – Best Practices in Materials Science and Engineering Undergraduate Education for Rising Enrollments”

Day 1 – Sept. 9

7:15 a.m.  Breakfast/Pick up registration packets
8:15 a.m.  Welcome from Dean Lee Kump, Penn State College of Earth and Mineral Sciences
8:30 a.m.  Susan Sinnott (Penn State): Overview of workshop and objectives
9:00 a.m.  Dave Bahr (Purdue): Perspective within a rapidly growing student body
9:30 a.m.  Amy Moll (Boise State): Perspective from a growing MatSE department
10:00 a.m. Break
10:15 a.m. Dean Janet Callahan (Michigan Technological University): Materials science and engineering - It's Unique
10:45 a.m. Panel on industry perspective: Dawne Moffatt-Fairbanks (Corning), Ed Sobota (TSI Titanium), Erik Lord (Blue Origin), Lazo Trkulja (ArcelorMittal USA)
12:00 p.m. Lunch
1:00 p.m.  Isabel Lloyd (Maryland): Impact on graduate recruiting and enrollment
1:30 p.m.  Michele Manual (Florida): Managing M.S. program populations
2:00 p.m.  TBD
2:30 p.m.  Break
3:00 p.m.  Matt Begley and Victoria Christensen (UCSB): How to encourage students to study to learn
3:30 p.m.  Scott McCormack (UIUC/PCSA ACerS): Student viewpoint
4:00 p.m.  Panel on national laboratory perspective: Kathy Wahl (Naval Research Laboratory), James Warren (NIST), Charles Ward (AFRL), Peter Green (NREL)
5:15 p.m.  Adjourn
5:30 p.m.  Reception—Steidle Atrium
6:00 p.m.  Optional tours of Steidle Building
6:30 p.m.  Dinner (on your own)
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Day 2 – Sept. 10

7:15 a.m. Breakfast
8:00 a.m. Angus Rockett (Colorado School of Mines): Managing the capstone experience
8:30 a.m. Jessica TerBush (UIUC): Managing laboratories
9:00 a.m. Thomas Staley (Virginia Tech): Integrating laboratories and writing
9:30 a.m. Mary Lynn Realff (Georgia Tech): GT effective team dynamics initiative: changing the way teams work
10:00 a.m. Break
10:15 a.m. Michael Fitzsimmons (MRS): Technical society perspective
10:45 a.m. Panel on the government agency perspective: Lynnette Madsen (NSF), Julie Christodoulou (ONR), Linda Horton (DOE)
12:00 p.m. Lunch
1:00 p.m. TBD
1:30 p.m. Michael Williams (Clark Atlanta): African American participation in STEM: the leaky pipeline
2:00 p.m. Panel on diversity, inclusion, access and affordability: Mary Wells (Guelph), Allen Kimel (Penn State), Viola Acoff (University of Alabama)
3:15 p.m. Break
3:30 p.m. Marcus Young (North Texas): Connecting MSE undergraduate education with other majors in STEM and the Arts
4:00 p.m. TBD
4:30 a.m. TBD
5:00 p.m. Adjourn
5:15 p.m. Reception in the Millennium Science Complex
5:30 p.m. Optional tours of Millennium Science Complex
6:00 p.m. Clive Randall (Penn State): Impact on research and institutes
6:30 p.m. Poster session
7:30 p.m. Dinner (on your own)
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Day 3 – Sept. 11

7:15 AM  Breakfast

8:00 AM  Pawel Keblinski (RPI): Perspective from private institutions

8:30 AM  Orla Wilson (Johns Hopkins): Impact of the evolution of specialized research topics in materials science and engineering on the undergraduate curriculum over the coming decade

9:00 AM  Hatem Zurob (McMaster): Outlook from Canada

9:30 AM  Gregory Hilmas (Missouri University of Science & Technology): Outlook from department with metallurgical and ceramic engineering degree programs

10:00 AM  Break

10:15 AM  Ibrahim Karaman (Texas A&M): Challenges and rewards associated with starting a new materials science and engineering department

10:45 AM  TBD

11:30 AM  Susan Sinnott (Penn State): Summary and next steps

12:00 PM  Adjourn