UPCOMING MATERIALS EDUCATION WORKSHOPS SUPPORTED BY THE NSF

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

September 9-11, 2019, in State College, PA

Department of Materials Science and Engineering
Topics and Panels:

- Perspective from within a rapidly growing department
- Integrating laboratories and writing
- Impact on graduate recruiting and enrollment
- Influence of college policies
- Managing the capstone experience
- Materials science and engineering education in physics and chemistry
- View from Canada
- Outlook from departments with non-MatSE degree programs
- Leveraging courtesy appointments to enhance undergraduate student education
- Panels: government agency, industry perspective, research laboratory, technical society
Materials Science and Engineering Educational Advances Workshop, Spring/Summer, 2020
Topics:

• Educational innovation in introductory materials courses (often with large non-MSE student bases, often taught outside MSE) and their impact on student learning
• Laboratory innovations, including using virtual tools
• Online materials delivery (at the graduate, undergraduate, and continuing education levels) and data analytics regarding online learning
• Using computational tools in courses from introductory undergraduate to graduate
• Active learning adaptations for MSE-specific courses, including entrepreneurial engagement.