AGENDA

8:30–9:00 am  Registration *(light refreshments served)* MILAS HALL

9:00–9:30  Welcome and Opening Remarks AUDITORIUM, MILAS HALL
- *Honorable Congressman Joseph Kennedy Ill*
- *Joan Ferrini-Mundy*, Assistant Director, Directorate for Education and Human Resources, National Science Foundation
- *Richard Miller*, President, Franklin W. Olin College of Engineering

9:30–10:30  Pathways to Middle-Skill STEM Occupations and Beyond: Issues, Challenges and Opportunities—*Plenary Presentation* AUDITORIUM, MILAS HALL
- *Moderator: Janice Earle*, National Science Foundation
- *Panelists: Dale Allen*, Quinsigamond Community College; *Deborah Boisvert*, Broadening Advanced Technological Education Connections, University of Massachusetts, Boston; *Kimberly Green*, National Association of State Directors of Career Technical Education Consortium; *Mary Wright*, Jobs for the Future

10:30–10:45  Break

10:45–12:00  Focusing on Pathways to Middle-Skill Occupations and Beyond—*Breakout Sessions* ACADEMIC CENTER
- *Digitally Supported Pathways Transitioning Students into Technical Education Fields*: Ginny Hall and Caroline Christ, Clemson University Center for Workforce Development RM. 313
- *Problem-Based Learning (PBL) Implementation Strategies for STEM Courses*: Fenna Hanes, New England Board of Higher Education; James DeLaura, Central Connecticut State University; Nicholas Massa, Springfield Technical Community College RM. 326
- *Real-World Externships for Teachers of Science, Mathematics, and Technology: A Bridge for Uniting Education and Industry*: Jeffrey Weld, Iowa Governor’s STEM Advisory Council and University of Northern Iowa RM. 328
- *The STEM Academies at Wheaton High School*: Heather Carias and Andrea Robertson-Nottingham, Wheaton High School, Maryland RM. 417
• **Using Universal Design Principles and Assistive Technology to Improve Student Learning and Success:** Donna Lange, National Technical Institute for the Deaf, Rochester Institute of Technology; Samantha Langley-Turnbaugh, University of Southern Maine RM. 428

12:00–12:45 pm  Networking (lunch served)  TENTED AREA, OUTSIDE COMMONS

12:45–1:30  The Hidden STEM Economy: The Range of STEM Knowledge Across Occupations—**Plenary Presentation**  AUDITORIUM, MILAS BUILDING
• **Introduction:** Susan Singer, Division of Undergraduate Education, National Science Foundation
• **Speaker:** Jonathan Rothwell, Brookings Institution

1:30–2:00  Break  Olin College of Engineering Student Expo ACADEMIC CENTER

2:00–3:15  Focusing on Pathways to Middle-Skill Occupations and Beyond—**Breakout Sessions**  ACADEMIC CENTER
• **FabNet: Extending the FabLab Classroom:** Nigel Standish, University of Virginia; Stephen Portz, Triangle Coalition for STEM Education RM. 313
• **GLOBE CAP: Using Real-World Science to Further College and Career Readiness:** Svetlana Darche, WestEd; Erin Fender, College and Career Acadamy Support Network, University of California, Berkeley RM. 318
• **Health IT Entry Certification: A Rapid-Growth Industry Beckons New Talent:** Patricia Dombrowski, Bellevue College RM. 326
• **Strategies to Interest Women and Girls in STEM Programs:** Donna Milgram, Institute for Women in Trades, Technology & Science; Mel Cossette, National Resource Center for Materials Technology Education, Edmonds Community College; Karen Wosczyna-Birch, Regional Center for Next Generation Manufacturing and Connecticut College of Technology RM. 328
• **The New Tech Network: Transforming Schools into Innovative Teaching and Learning Environments:** Dan Liebert and students, Tech Valley High School, New York; Paul Buck, New Tech Network RM. 417
• **Unlocking the Mathematical Gate: Pathways to and Through College Mathematics:** Andre Freeman, Capital Community College RM. 428

3:15–3:30  Break

3:30–4:15  Connected Learning in the Workplace—**Plenary Presentation**  AUDITORIUM, MILAS BUILDING
• **Moderator:** Deborah Boisvert, Broadening Advanced Technological Education Connections, University of Massachusetts, Boston
• **Panelists:** Jim Whalen, Boston Properties, Inc.; Jeff Stolz, Integrated Defense Systems, Raytheon Company; Kostian Iftica, Brilliant Geeks; Henk Portier, Engineering Operations (Intern), Raytheon Company

4:30–5:30  Tours of Olin College of Engineering (optional)

Join the conversation at #nsfstem