



## Partnerships Advancing STEM Education Meeting

Sensata Technologies - 529 Pleasant Street - Attleboro, MA 02703  
February 28, 2018 3:30PM-5:45PM

### Agenda

- 3:30PM **Registration, networking, and visiting exhibitors**
- 4:15PM **Welcome & Overview**  
Martha Sullivan, President and CEO, Sensata Technologies  
Robert LePage, Assistant Secretary of Career Education, EOE  
Stacey Kaminski, Executive Director CONNECT/SE MA STEM Network
- 4:30PM **Panel**  
**Developing and Maintaining Business & Education Partnerships Regionally and Locally**  
Panelists will illustrate how they partner with businesses, educators, and community organizations to advance STEM education and support workforce development efforts.
- Panel Moderator:  
Fred Clark, President, Bridgewater State University & CONNECT Partnership Treasurer
- Panelists:
- Michael Tamasi, President & CEO, AccuRounds & SE MA STEM Network Advisory Board Member
  - Laura Douglas, President, Bristol Community College & CONNECT Partnership Board Member
  - Teresa Murphy, Superintendent, Mansfield Public Schools & SE MA STEM Network Advisory Board Member
  - Debra Garvin, Education Coordinator for Early Childhood and School Age Programs, Robbins Children's Programs & SE MA STEM Network Advisory Board Member
  - Jennifer Brenner, NPD Quality Engineer, Sensata Technologies & Envision the Future Mentoring Program
  - Audrey Sears, Sensata Envision the Future Mentoring Program
- 5:30PM **Questions**

# EDUCATING FOR THE FUTURE 2020 & Beyond

## Partnerships Advancing STEM Education Meeting

### Exhibitors

#### Business Partners

- ❖ AccuRounds
- ❖ North Easton Machine
- ❖ Sensata Technologies, Inc.

#### Community & Educational Partners

- ❖ Attleboro Public Library
- ❖ Attleboro Public Schools
- ❖ First Robotics
- ❖ Hockomock YMCA
- ❖ Mansfield Public Schools and Envision the Future Community Team
- ❖ Project Kangaroo
- ❖ Project Kaleidoscope
- ❖ Project Lead the Way
- ❖ Robbins Children's Programs
- ❖ Sensata Foundation
- ❖ South Coast Educational Collaborative

#### Government Partners

- ❖ MA Department of Higher Education
- ❖ MA STEM Pipeline Fund
- ❖ SE MA STEM Network

#### Higher Education Partners

- ❖ Bridgewater State University
- ❖ Bristol Community College - Center for Workforce and Community Education
- ❖ Bristol Community College – Academic Programs – MA Transfer
- ❖ CONNECT Partnership
- ❖ Wheaton College

## Panelist Biographies

### **Jennifer Brenner, Process Engineer and STEM Coordinator, Sensata Technologies Inc.**

Jennifer is a new product development process engineer at Sensata Technologies in Attleboro and has been passionate about STEM her entire life. She is a graduate of Cornell University and holds a Bachelor of Science degree in chemical and biomolecular engineering. Her STEM interest started with planning and assisting STEM activities through Girl Scouts while she was in elementary school, and she has continued her passion by working with Sensata to take a grass roots STEM focus to a more structured volunteer team.

Along with her engineering work at Sensata, she is involved in community efforts focused on advancing youth in the community and providing growth opportunities in the STEM and professional development areas. As a member of the Attleboro STEM Community Team, Jennifer has led activities at STEM Nights and STEM Saturdays. Working with colleagues at Sensata, she established the Sensata STEM Mentoring Initiative, which is a three year program that provides middle school girls the opportunity to work with mentors from Sensata to deepen their understanding of STEM concepts, explore career opportunities, and develop leadership skills.

### **Fred Clark, President, Bridgewater State University**

On September 1, 2015, Fred Clark was inaugurated as the 12<sup>th</sup> president of Bridgewater State University. Becoming the president of Bridgewater State caps a long and distinguished association with the university. Fred is a 1983 graduate of Bridgewater, majoring in political science. After graduation, Fred went on to receive a law degree from Suffolk University and then worked for Congressman Joseph Moakley as his district director, legal counsel, and Washington liaison officer.

Fred was instrumental in working with Congressman Moakley in securing a \$10 million federal appropriation in 1991 to build what is now the Moakley Center for Technological Applications on campus. At the time, the appropriation was the largest ever given to a public college in the history of the United States. Continuing his service to Bridgewater State and to public higher education, Fred was the chair of the Massachusetts Board of Higher Education and later the executive officer of the Massachusetts State University System Council of Presidents.

During his tenure at the Massachusetts Council of Presidents, Fred was instrumental in securing the passage of legislation that led to six of the state colleges being named universities. In 2011, Fred returned to Bridgewater and was appointed as the executive vice-president and vice-president of external affairs responsible for a range of regional, state, national, and international programs and initiatives. In the area of regional engagement, Fred launched the Institute for Policy Analysis and Regional Engagement to enhance relationships with municipalities and non-profits.

Fred also helped to strengthen and expand ties to numerous businesses and business organizations in Southeastern Massachusetts. Since his inauguration, Fred has implemented a number of programs and initiatives designed to continue Bridgewater's growth and academic excellence. One of his key priorities was the development of a data driven decision making and strategic planning process that would lay the foundation for a comprehensive university-wide plan for the future of Bridgewater State beginning in 2017. Fred also established the Division of Student Success and Diversity, which will improve student retention, reduce achievement gaps, and assist students in the successful completion of their studies.

Building on this commitment to student success, Fred intensified efforts to advance innovative programs in the areas of science and mathematics, undergraduate research, internships, adult learning, and support for faculty teaching and research.

**Mike Tamasi, President and CEO, AccuRounds**

Mike is a second generation owner who has worked in the family business since 1985. He is responsible for overall strategy and organizational alignment guided by "The Path to Perfection" - providing opportunity for every member of the AccuRounds team. He is intensely focused on enterprise excellence driven by continuous improvement principles, initiating the focus on world class manufacturing in 1995.

Michael is very active in industry and educational organizations including government appointments to the Massachusetts Advanced Manufacturing Collaborative, currently serving as co-chair, and previously sitting on the MA STEM Advisory Council. Michael continues his STEM awareness contributions through the SE MA STEM Network. He is the chairman of Business Leaders United, a group led by the National Skills Coalition in Washington DC. In February of 2014, he was named to the New England Advisory Council for the Federal Reserve Bank of Boston. Michael is active in the NTMA (National Tooling and Machining Association) as audit team leader/member, and served on the Boston Chapter's board for fifteen years. He is also chairman of the board for GBMP, an NIMS audit team leader and an ambassador for MassEcon.

**Laura Douglas, President, Bristol Community College**

President Laura L. Douglas, Ph.D., is an agent of positive growth and change dedicated to working with students, faculty, and staff to foster an inclusive environment with a rich diversity of beliefs, cultures, languages, abilities, and lifestyles. Taking the helm as Bristol Community College's fourth president on July 1, 2017, President Douglas aims to bolster the college-going culture within the community and help students reach their goals and be successful in their lives. BCC is a leading resource for education and workforce development with locations in Southeastern Massachusetts including Attleboro, Fall River, New Bedford, Taunton, and eLearning.

Having served from 2005 to 2017 as provost of Des Moines Area Community College's Urban Campus (DMACC), part of a large multi-campus community college system, she has a remarkable record of accomplishment working with underrepresented populations to enroll them in college and ensure that they graduate. During her career, she has served at community colleges in Japan, Michigan, North Carolina, and Iowa.

Her professional and scholarly interests include leadership, organizational behavior, diversity, and community college governance. President Douglas attended the University of Southern Maine and holds an undergraduate degree in social welfare. She holds a master's degree in international administration from the School for International Training in Vermont, and a master's and Ph.D. in education from the University of Michigan's Center for the Study of Higher and Postsecondary Education.

Born and raised in Massachusetts and Connecticut, President Douglas' family ties to Fall River go back generations. Her great-grandparents emigrated to Fall River from Ireland and her grandfather was born and raised in the city. President Douglas lived the first five years of her life in Amherst, Massachusetts,

before eventually settling to Mansfield Center, Connecticut, with her two sisters and parents who both worked in higher education. She currently resides in Somerset with her husband, Gregg Johnson.

She believes in putting the “community” in community college. She provides ongoing outreach to ensure that each community in the college’s service area is assisted in accessing college and continuing education. She is passionate about student success, economic development, workforce preparedness, and alleviating poverty.

**Debra Garvin, Education Coordinator, Robbins Children’s Programs, Attleboro**

An educator at Robbins Children’s Programs (RCP) in Attleboro for thirteen years, Debra has served in various positions before taking her current role as education coordinator. As the education coordinator her efforts have focused on creating a Maker Space and providing professional development for RCP educators that focus on enhancing their ability to provide relevant learning opportunities for students.

The Four Cs of 21st century learning are stressed. The Four Cs or 4 Cs are four skills that have been identified by the United States-based Partnership for 21st Century Skills (P21) as the most important skills required for 21st century education: critical thinking, communication, collaboration, and creativity. As a SE MA STEM advisory board member since 2014, Debra shares her insights on the importance of beginning STEM education in early childhood. Debra holds a bachelor’s degree in early childhood.

**Robert LePage, Assistant Secretary of Career Education, Executive Office of Education**

Robert LePage serves as Assistant Secretary of Career Education in the Executive Office of Education (EOE). In his role he is primarily focused on secondary and post-secondary career pathway strategies to meet the talent and workforce needs of employers in the Commonwealth. He supports EOE’s Workforce Skills Cabinet initiatives in collaboration with Executive Office of Labor and Workforce Development and Executive Office of Housing and Economic Development He serves as an EOE’s designated member of the Massachusetts Workforce Development Board.

**Teresa Murphy, Superintendent, Mansfield Public Schools**

Teresa Murphy is the Superintendent of Mansfield Public Schools. Ms. Murphy, a Mansfield High School graduate, has been an employee at Mansfield Public Schools for 13 years. Following an administrative internship in the district, she was hired as the assistant principal of the Jordan/Jackson School in 2005. She was promoted to co-principal in 2008 and principal in 2014. In 2016, Ms. Murphy was named the assistant superintendent and became Superintendent last July.

Murphy holds a B.S. in Elementary Education and a Certificate of Advanced Graduate Studies from Bridgewater State College and a M.Ed. from the University of Washington. She anticipates that she'll receive her Ph.D. in Educational Leadership from Lesley University in 2019.

Murphy's interest in STEM has allowed her to create opportunities for students, teachers and to partner with parents and the business community.

**Audrey Sears and Trinity Harrison, Students involved in STEM Programs Supporting STEM Success**

Area students will share their experiences with the Envision the Future Program held at BSU in 2015, and with the Sensata STEM Mentoring Initiative that have provided them with opportunities to engage in computing and engineering activities and explore career options with STEM professionals. They will illustrate the importance of exposure to STEM in middle school and why we need to begin when children are young to ensure STEM success. In addition, they will share how their work with a STEM Community Team has enhanced their leadership skills through planning for and presenting at STEM events.