



CCAM

SOLVING ADVANCED MANUFACTURING CHALLENGES

&

JOHN

Tyler

COMMUNITY COLLEGE

present

Advanced Manufacturing Education Day

Wednesday, May 1, 2019

AGENDA

9:00 - 9:30 INTRODUCTION AND OPENING REMARKS

Will Powers, President & Chief Executive Officer, CCAM

Megan Healy, Chief Workforce Development Advisor, Office of Governor Ralph Northam

9:30 - 10:00 CCAM & JOHN TYLER COMMUNITY COLLEGE

Will Powers, President & Chief Executive Officer, CCAM

Dr. Edward "Ted" Raspiller, President, John Tyler Community College (JTCC)

Dr. Jaime Camelio, Chief Technology Officer, CCAM

10:00 - 10:30 TAKING A DIFFERENT ROAD: HOW EDUCATION PROVIDERS AND COMPANIES ARE GETTING CREATIVE AND TRAVELING NEW PATHS TO FILL THE SKILLS GAP

Denise Ball, Workforce Development Specialist, Tooling U-SME

10:30 - 10:50 NETWORKING BREAK

10:50 - 11:20 BUSINESS-EDUCATIONS-GOVERNMENT PARTNERSHIPS

Steven Dimmett, Associate Principal, Chesterfield Career and Technical Center (CCTC)

11:20 - 11:50 WORKFORCE PIPELINE SOLUTION WITH THE POWER TO TRANSFORM

Troy Simpson, Director of Advanced Manufacturing, Institute for Advanced Learning and Research (IALR)

11:50 - 1:05 LUNCH / TOURS / DEMOS

Tours start in high bay at 12:30

1:05 - 2:35 PANEL: WORKFORCE INITIATIVES WITH MANUFACTURING USA

- Josh Cramer, Director, Education and Workforce, America Makes: Additive Manufacturing Institute
- Joannie Harmon, Workforce Manager, IACMI: Advanced Composites Institute
- Lizabeth Stuck, Head of Engagement and Workforce Development, MxD: Digital Manufacturing Institute
- Rebecca Hartley, Director, Education and Workforce Development, ARM: Advanced Robotics for Manufacturing Institute

Moderators: Mary Ann Pacelli, NIST MEP Program Manager, Workforce Development and Michael Britt-Crane, DoD Manufacturing Technology Program Office, Education and Workforce Development Lead

2:55 - 2:50 NETWORKING BREAK

2:50 - 3:20 THE MAKING OF MY JOURNEY: DISPELLING THE DIRTY WORD - APPRENTICESHIP

Regina D. McLean, Academic Supervisor, The Apprentice School at Newport News Shipbuilding


3:20 - 3:50 DRIVING TOWARD A NEW MODEL FOR AUTOMOTIVE MANUFACTURING EDUCATION

Dr. Laine Mears, Professor & BMW SmartState Chair of Automotive Manufacturing, Clemson University Department of Automotive Engineering *and*

Dr. Paris Stringfellow, Operations Director, Center for Advanced Manufacturing, Clemson University

3:50 - 4:00 CLOSING REMARKS

4:00 RECEPTION



Denise Ball is a Workforce Development Specialist for ToolingU-SME, an industry leader in manufacturing workforce education and development. She has served as a practitioner of best-in-class learning and development techniques for the manufacturing industry for over 25 years. Her extensive background includes workforce development for customized training at Lakeland Community College in Ohio. She also brings hands-on experience in manufacturing as she assisted her family in running a small machine shop for several years. For the past 7 years, she has guided the implementation of workforce education and skills training into corporations across the globe to help develop their workforce with success, as well as facilitated workshops on best practices and various webinars. She resides in Ohio with her husband and has 5 children.

Steven Dimmett is Associate Principal of the Chesterfield Career and Technical Center (CCTC) for Chesterfield County Public Schools. He brings together business, education and government representatives to influence education-to-career workforce development.

Troy Simpson is the Director of Advanced Manufacturing at the Institute for Advanced Learning and Research. Prior to this, he was the Director of Manufacturing at Danville Community College and an Associate Professor of Precision Machining Technology. During his 27 years at Danville Community College, Troy formed business and industry partnerships with global companies that have provided over \$3 million in support for advanced manufacturing programs at Danville Community College and has managed over \$15 million of federal, state, and local grants to support these programs. He developed and implemented a Metrology program which is the first of its type in Virginia and the first in the nation to certify graduates ASQ-CQI inspectors. He also led the development of the Integrated Machining Technology Capstone program, a strategic partnership between the Institute for Advanced Learning and Research and Danville Community College that has been recognized as a national benchmark for advanced manufacturing training. He earned his Business Administration degree from Averett University, a diploma in Precision Machining Technology from Danville Community College, and is a journeyman machinist.

Regina McLean is an academic supervisor at Newport News Shipbuilding's The Apprentice School. Within this scope, she serves as manager, College Programs, Night School and Student Services. In addition, she is the interim manager for the school's Business and IT operations. She is from Montgomery, Alabama, a mother of three and grandmother of two. Early in her career, Regina was a director of childcare for centers nationally known in the industry. In her second career, she has been employed by Newport News Shipbuilding for 20 years. She started her career there, the largest industrial employer in the Commonwealth of Virginia, as an individual contributor in the Outside Machinery and Installation Department. She graduated The Apprentice School with honors and she was award winner of the Neil Christensen Awards for Craftsmanship in 2005. She has earned two Master's Degrees, one in Business Administration and the other in Human Resources, both from the Florida Institute of Technology.

Dr. Laine Mears is the BMW SmartState Endowed Chair of Automotive Manufacturing, Professor and founding faculty member in the Automotive Engineering department at Clemson University. He teaches and conducts research in manufacturing quality estimation, Intelligent Machining Systems, manufacturing process design and control, and manufacturing equipment diagnostics, at the Clemson University International Center for Automotive Research. Current efforts are in expanding the Multimaterial Joining Lab and growing a new Center of Automotive Assembly. He currently directs the Clemson Vehicle Assembly Center and the NSF THINKER Research Traineeship Program. In addition to academic experience, he has over 10 years in industry, holding positions with Hitachi Automotive and SKF Bearings. He has a B.S. in mechanical engineering from Virginia Tech (1993) and M.S. (2001) and Ph.D. (2006) degrees in mechanical engineering from Georgia Tech.

Dr. Paris Stringfellow is the Operations Director for the Center for Advanced Manufacturing at Clemson University. She serves as a regular interface with the Center's industry partners and manages the day-to-day operations of the organization. With a background in human factors, user-centered design and risk engineering she has worked with dozens of companies to help mitigate risk due to human error. Prior to joining Clemson, Stringfellow helped companies manage risk through human error analyses through her company, HFACS, Inc. She later spent time in the nuclear power industry designing modern/digital main control rooms. Today, her research focuses on reducing risk and improving resiliency of communities and organizations through human-centered design and data analytic approaches.

CCAM is hosting a **Manufacturing Day** event at our facility in Prince George County, Virginia. The event is open to high school, college, and graduate school students, parents, educators, and supporters.

Learn about the different educational pathways that can result into a stimulating and lucrative career in manufacturing. College and Universities will be on hand to help determine which educational pathway is best for you.

10-11:30am	Hands on automation & robotics demos
11:30-12pm	CCAM vertical education discussion
12-1pm	Lunch & Education networking
1-2pm	Manufacturing careers discussion



FRIDAY OCTOBER 4, 2019

10AM - 2PM

5520 WEST QUAKER ROAD, DISPUTANTA, VA

ABOUT JOHN TYLER COMMUNITY COLLEGE

John Tyler Community College offers more than 60 majors that provide pathways to careers in high-demand fields; transfer opportunities to four-year colleges and universities; and industry credentials and licensures. The college, with campuses in Chester and Midlothian, a Nursing Education Center, online classes, and off-campus classrooms, served more than 14,300 students during the 2017-18 academic year. It also assisted more than 7,000 learners through its workforce development division, Community College Workforce Alliance, a partnership between Tyler and Reynolds community colleges.

ABOUT CCAM

CCAM's mission is to solve advanced manufacturing challenges. Their talent-centric collaborative accelerates global innovation and productivity for their members. Members guide the research, leveraging talent and resources within CCAM and Virginia's top universities, that enables them to pool R&D efforts to increase efficiencies. Results can then be applied directly to the factory floor, turning ideas into profit faster and more affordably than ever before. CCAM is located in a state-of-the-art research facility in South Prince George County, Virginia. For more information, visit: www.CCAM-VA.com

CONTACT CCAM

5520 West Quaker Road, Disputanta, VA 23842
+1 804-722-3700
www.ccam-va.com
ccam@ccam-va.com

