

ATMAE 2017 Conference Schedule-Blocks



Sessions last 22 ½ minutes each and are scheduled in a 45 minute block
***Schedule Subject to Change**

Thursday, November 2		
8:00 AM – 8:45 AM		
Meeting the Future Educational Needs of Manufacturing Today	Mr. Jake Hildebrant, Murray State University Mr. Sidney Martin, Murray State University	Administration
Practice What You Teach	Dr. Randell Peters, Indiana State University Dr. Michael Hayden, Indiana State University	Administration
Success factors for engineering technology transfers	Dr. Gretchen Mosher, Iowa State University	Administration
Enabling a 100% Online Certificate Program in Quality: Benefits and Challenges	Dr. John Earshen, SUNY/Buffalo State	Administration
Information-Seeking Behaviors of Construction Professionals	Dr. James Jones, Ball State University	Construction
The Effect of Swine-Waste Biochar on the Early-Age Setting and Compressive Strength of Cement Pastes	Dr. Andrea Ofori-Boadu, North Carolina A & T State University Dr. Musibau Shofoluwe, North Carolina A & T State University Mr. Frederick Aryeetey, North Carolina A & T State University	Construction
Smart Home: Privacy and Cyber Protection	Dr. Preet Gill, Lawrence Technological University Dr. Konnie Kustron, Eastern Michigan University	EECT
Increasing the Efficiency of a Wind Turbine	Dr. Faruk Yildiz, Sam Houston State University	EECT
Customize the robotic end effector by CAD modeling and simulation	Dr. Ni Wang, Eastern Kentucky University Dr. Yuqiu You, Ohio Unviersity Dr. Sanghyun Lee, Morehead State University	EECT
Using Cognex Vision for Part ID and Analysis: Tutorials, Labs, and YouTube	Mr. Michael Wiles, Millersville University Mr. Nicholas Bozzelli, Millersville University Dr. John Wright, Millersville University Mr. Quentin Kilgore, Millersville	EECT
Introduction to the Johnson & Johnson Operating System	Dr. David Hoffa, Johnson & Johnson	Management
Re-evaluating traditional paths to market for industrial products	Dr. Rod Flanigan, University of Nebraska - Kearney	Management
Electric Guitar: Concept to Product	Dr. Gary Mahoney, Berea College	Teaching Innovations (TI)
Teaching Manufacturing and Sustainability in a Manufacturing Class with the U.S. Life Cycle Inventory Database	Dr. Mehmet Bahadir, Murray State University	Teaching Innovations (TI)

Thursday, November 2 8:00 AM – 8:45 AM		
Stacking credentials with industry partnerships and support	Mr. Steve Williams, Utah State University Mrs. Trina Nye, Utah State University Dr. Trevor Robinson, Utah State University	Teaching Innovations (TI)
Lean Gamification between Industry and University	Dr. Ahmed Deif, California Polytechnic State University	Teaching Innovations (TI)
Thursday, November 2 9:00 AM – 9:45 AM		
Comparing enrollment trends in ATMAE accredited programs to projected workforce demand	Dr. Trevor Robinson, Utah State University Dr. Richard Miller, Ohio Northern University Dr. Feng Jao, Ohio Northern University	Administration
Curriculum and Instruction Basics for the Engineering Technology Educator	Dr. Randell Peters, Indiana State University Dr. Michael Hayden, Indiana State University	Administration
Developing a Successful Outcomes-Based Assessment Process	Dr. James Jones, Ball State University Dr. Tarek Mahfouz, Ball State University	Administration
Enterprise Risk Management: A Credible Approach for Integrating Risk Management into a Department of Technology	Dr. Jeenson Sheen, Norfolk State University Mr. Charles Hunt, Norfolk State University Dr. Munir Sulaiman, Norfolk State University	Administration
Thermal Imaging and Infrared Applications in the Construction Industry	Dr. Sherif Attallah, Ball State University	Construction
On Building Automation System (BAS) and High-Performance Green Buildings	Dr. Shinming Shyu, Eastern Michigan University	Construction
Building Affordable Laboratory Equipment to Conduct Energy Experiments for Alternative Energy Classes	Dr. Ulan Dakeev, Texas A&M University-Kingsville Dr. Faruk Yildiz, Sam Houston State University	EECT
Designing and Testing Sensors to Assist in Coral Restoration	Dr. Gary Mahoney, Berea College	EECT
Building a Solar Charged Electric Go-Kart	Mr. Tanmay Pant, Eastern Illinois University Dr. Peter Liu, Eastern Illinois University Dr. Rendong Bai, Eastern Illinois University Dr. Jerry Cloward, Eastern Illinois University	EECT
Performance Analysis of Stand-Alone Hybrid Energy Systems in Rowan County KY	Mr. Femi Oyeniran, Morehead State University Mr. Saihiranmitra Mudiki, Morehead State University Dr. Hans Chapman, Morehead State University Dr. Nilesh Joshi, Morehead State University	EECT
Absolutely the best platform skills workshop ever: How to use your people presence and PowerPoint to reach Millennials and Homelander	Dr. Kimberley Gordon, University of Arkansas-Fort Smith	Management
Assessing Complexity as a Critical Factor in Managing Technology Projects	Mr. Curtis Stock, Indiana State University	Management
Using Critical Thinking Question Matrices as a way to improve Affective Learning and Develop Critical Thinking Skills	Dr. Denise Gravitt, Western Illinois University	Teaching Innovations (TI)
Universal Instructional Design and Delivery	Dr. James Jones, Ball State University Mr. Gary Birk, Ball State University Mrs. Valerie Birk, Ball State University	Teaching Innovations (TI)
Virtual Scenario for Maintenance Training	Mr. Adolfo Samudio Cano, Morehead State University Dr. Jorge Ortega Moody, Morehead State University Mr. Michael Edlin, Morehead State University Mr. Saihiranmitra Mudiki, Morehead State University	Teaching Innovations (TI)

Thursday, November 2 9:00 AM – 9:45 AM		
Analysis of Students' Perspectives on Success Factors in Engineering Technology Majors	Mr. Todd Alberts, Indiana State University	Teaching Innovations (TI)
Thursday, November 2 10:15 AM – 11:00 AM		
LSS Applied to the Academic Department	Dr. Randell Peters, Indiana State University Dr. Michael Hayden, Indiana State University	Administration
Four Pillars and Proposed B.S. Manufacturing Engineering Technology Program at SUNY/Buffalo State	Dr. Mohan Devgun, SUNY/Buffalo State	Administration
Stepping through degrees: a stackable credential model	Dr. Trevor Robinson, Utah State University Mr. Steve Williams, Utah State University Mrs. Trina Nye, Utah State University	Administration
A Description Review of AACSB and ATMAE Accreditation Standards and their impact on faculty compensation	Ms. Fatemeh Davoudi Kakhki, Iowa State University	Administration
Scheduling Requirements for Civil versus Commercial Projects for CM Graduates	Dr. John Reposa Jr., Eastern Michigan University	Construction
Thirsty For a Solution: Using Waste Plastic Bottles as an Additive to Enhance Asphalt Characteristics in Roadway Design	Dr. Carol Lamb, Youngstown State University Ms. Hayley Marchio, Youngstown State University	Construction
Multi-Layer Behavioral Motion for Complex Robotic Control with >10 DoF	Mr. Kevin Wagner, Millersville University Dr. John Wright, Millersville University	EECT
Objective Evaluation of Mobile Robot Trajectories using Multiple View Geometry	Dr. Sangho Park, Central Connecticut State University	EECT
The Feasibility Study of Photovoltaics in Eastern Kentucky: The implementation of Microprocessor Powered Adaptive Photovoltaic Tracking Systems with MATLAB	Dr. Yuqiu You, Ohio University Dr. Ni Wang, Eastern Kentucky University	EECT
Enacting Active Compliant Visual Robotic Control: Setup, Configuration, and Applications	Mr. Nicholas Bozzelli, Millersville University Mr. Michael Wiles, Millersville University Mr. Kevin Wagner, Millersville University Mr. Quentin Kilgore, Millersville University	EECT
Improvement of Supply Chain Transactions by Applying Lean	Dr. Kanchan Das, East Carolina University Dr. P. Rao, University of Northern Iowa	Management
Analysis of Efficiency Ratios and Profitability of US Food Processing Industry: An Empirical Study	Dr. Nilesh Joshi, Morehead State University	Management
Using Escape Rooms to Teach Problem Solving in a Technology Management Classroom	Dr. Sophia Scott, Southeast Missouri State University Ms. Laura Gohn, Southeast Missouri State University	Teaching Innovations (TI)
IoTNet: Enhancing Cyber Security Education	Dr. David Hua, Ball State University	Teaching Innovations (TI)
A Virtual Environment for Learning Radiation Emergency Response	Dr. HuiRu Shih, Jackson State University Miss Kawandrea Spann, Jackson State University Miss Ebony Davis, Jackson State University	Teaching Innovations (TI)
Development of an Interdisciplinary Cyber security Laboratory for Information Technology and Automation & Controls Engineering Technology Programs	Dr. William Clyburn, Indiana State University Dr. Xiaolong Li, Indiana State University	Teaching Innovations (TI)

Thursday, November 2 11:15 AM – 12:00 PM		
Providing real world experiences for students through collaborations with local non-profit organizations	Mrs. Janet Fick, Ball State University Dr. James Jones, Ball State University Ms. Jennifer Warrner, Ball State University	Administration
learning: Models and Policies for Adoption and Integration	Dr. Christopher Davison, Ball State University Dr. David Hua, Ball State University Dr. Edward Lazaros, Ball State University	Administration
Use of the fuzzy Delphi Method for a qualification-based contractor selection in the construction of bulk processing facilities	Miss Nurhaizan Mohd Zainudin, Iowa State University Dr. Gretchen Mosher, Iowa State University	Construction
Using Explain Everything App for Creating Instructional Support Videos for Statics and Strengths of Materials Courses	Dr. Denise Gravitt, Western Illinois University	Construction
Synchronous and Asynchronous content delivery in online and hybrid courses.	Dr. Alister McLeod, Indiana State University Dr. Jim Smallwood, Indiana State University	Distance Learning
A Quantitative Evaluation of Students' Learning Outcomes in "Principles of Injury Prevention" Online Course	Ms. Fatemeh Davoudi Kakhki, Iowa State University	Distance Learning
Cyber Security Testing Framework of Internet of Things Devices	Dr. David Hua, Ball State University	EECT
Factors Affect Students' Adoption of Digital Technology in Learning Process	Dr. Bilquis Ferdousi, Eastern Michigan University	EECT
Gardens & interactive elements in Hospital Pediatric Units: Parental Affective Perceptions	Mrs. Gidaa Alamry, Eastern Michigan University	EECTE
User acceptance of new technology in mandatory adoption scenario: Understanding the effect of users' internal traits and technology characteristics.	Mr. Varun Chhabra, Iowa State University Dr. Shweta Chopra, Iowa State University Dr. Prashant Rajan, Iowa State University	Management
Implementation of KaiNexus tool for lean healthcare in Mary Greeley Medical Center: Employee perspective	Miss Bhagyashri Parab, Iowa State University Dr. Shweta Chopra, Iowa State University Dr. Sree Nilakanta, Iowa State University	Management
Implementation of Advanced Technology Training for the Manufacturing Workforce	Dr. Farzin Heidari, Texas A&M University-Kingsville Dr. Ulan Dakeev, Texas A&M University-Kingsville	Manufacturing
Emergency Preparedness Games	Dr. HuiRu Shih, Jackson State University Miss Kawandrea Spann, Jackson State University	Teaching Innovations (TI)
Toward ABET Accreditation of Information Assurance and Cyber Defense Program: Process and Challenges ... A case Study at Eastern Michigan University	Prof. Munther Abualkibash, Eastern Michigan University Prof. James Banfield, Eastern Michigan University Dr. Suleiman Ashur, Eastern Michigan University	Teaching Innovations (TI)
From Handshakes to You're Hired: Incorporating Professionalism into the Curriculum	Ms. Jennifer Warner, Ball State University	Teaching Innovations (TI)
Thursday, November 2 1:15 PM – 2:00 PM		
The Accidental Leader: Transitioning from Technology Faculty to Administration	Dr. Tarek Mahfouz, Ball State University Dr. James Jones, Ball State University	Administration
TEACHING PROJECT LEAD THE WAY: TEACHERS' EXPERIENCE AND OPINIONS	Ms. Melisa Stebbins, Pittsburg State University Dr. Tatiana Goris, Pittsburg State University	Administration
Utilization of Lean and Quality Management Systems in Civil Engineering and Construction Management	Mr. Joseph Curd, Morehead State University	Construction
Effectiveness of Responsive Facade Systems in Improving Lighting Performance of Building	Mrs. Negar Heidari Matin, Eastern Michigan University Prof. Ali Eydgahi, Eastern Michigan University Prof. Shimming Shyu, Eastern Michigan University	Construction
Enabling a 100% Online Certificate Program in Quality: Preparation of Distance Instructors	Dr. John Earshen, SUNY/Buffalo State	Distance Learning

Thursday, November 2		
1:15 PM – 2:00 PM		
Developing electronics curricula: Shifting from a traditional approach to project based distance approach	Dr. Trevor Robinson, Ohio Northern University	Distance Learning
Machine Ethics: Challenges and Importance for Educators	Dr. Christopher Davison, Ball State University Dr. David Hua, Ball State University Dr. Edward Lazaros, Ball State University	EECT
Evaluating the Factors in Fenestration Systems that Impact the Energy Consumption in Commercial High Rise Buildings in Saudi Arabia	Mrs. Nadia Arafah, Eastern Michigan University	EECT
Experimental Projects to Demonstrate Reliability and Viability of Potential Renewable Energy Sources	Dr. Ulan Dakeev, Texas A&M University-Kingsville Dr. Faruk Yildiz, Sam Houston State University Dr. Mehmet Goksu, Millersville University	EECT
Smart Home Technologies Enabled by Smart Grid	Mr. Tajdar Ahmed, Eastern Illinois University Dr. Rendong Bai, Eastern Illinois University Dr. Wutthigrai Boonsuk, Eastern Illinois University Dr. Peter Liu, Eastern Illinois University	EECT
Data Analysis Using Statistical Process Control: A Case for a Cold Rolled Coil	Dr. Eli Aba, Pittsburg State University Mr. Yuga Sunkarasetti, Pittsburg State University	Management
Digitization and automation of global supply chains for risk mitigation.	Mr. Gaganpreet Hundal, Purdue University	Management
Teaching Process Simulations in Manufacturing and Technology Programs	Prof. Samuel Obi, San Jose State University	Manufacturing
Trends in Materials Topics and Pedagogy	Dr. Randell Peters, Indiana State University Dr. Michael Hayden, Indiana State University	Manufacturing
Teaching Critical Reading and Responsiveness for the Mobile Age	Dr. Vigyan Chandra, Eastern Kentucky University	Teaching Innovations (TI)
Teaching 101: Foundations of Successful Instruction	Dr. Kimberley Gordon, University of Arkansas, Forth Smith	Teaching Innovations (TI)
Thursday, November 2		
2:15 PM – 3:00 PM		
Breaking Up Is Hard to Do: Leading through Unit Dissolution	Dr. James Jones, Ball State University	Administration
A comparative analysis of faculty compensation between ATMAE, ABET, and AACSB accredited programs.	Dr. Sam Nataraj, Morehead State University	Administration
Predicting Concrete Mechanical Properties via Computational Technique Approach	Dr. Ahmed Mohamed, Indiana State University Prof. Randell Peters, Indiana State University	Construction
Implementing a Student-Driven Solar Awareness Project	Dr. Sherif Attallah, Ball State University	Construction
Using Mobile Devices in Online Education	Dr. Edward Lazaros, Ball State University Dr. David Hua, Ball State University Dr. Christopher Davison, Ball State University	Distance Learning
A Study to Determine the Pros and Cons of Effective Use of Respondus Lockdown Monitor	Dr. Cynthia Horta Martinez, University of Central Missouri Mr. Reece Holcombe, University of Central Missouri	Distance Learning
Virtual commissioning for Industrial Automation	Saihiranmitra Mudiki, Morehead State University Dr. Jorge Alberto Ortega Moody, Morehead State University Andres Salinas-Hernandez, Technological Institute of Queretaro	EECT
Design of a Hybrid Solar Photovoltaic and Thermal Unit to Analyze Weather Effects on Solar Cell Power Output	Dr. Faruk Yildiz, Sam Houston State University Dr. Keith Coogler, Sam Houston State University	EECT

Thursday, November 2 2:15 PM – 3:00 PM		
Performance Analysis for Time-of-Flight Ranging Sensor	Mr .Aditya Patel, Eastern Illinois University Mr. Seyedmasoud Naseri, Eastern Illinois University Dr. Wutthigrai Boonsuk, Eastern Illinois University	EECT
Characterization of AuBe Ohmic Contact with the p-GaAs Base Used for Heterojunction Bipolar Transistors	Mr.Jinming Wan, Morehead State University Dr. Qingzhou Xu, Morehead State University	EECT
Application of Statistical Process Control to a University Website	Dr. Eli Aba, Pittsburg State University Mr. Praveen Guraja, Pittsburg State University	Management
A decision analysis of a six monthly distribution program for food grains in Punjab	Mr. Abhay Grover, Iowa State University Dr. Shweta Chopra, Iowa State University Dr. Caroline Krejci, Iowa State University	Management
The Future of Human/Machine Interaction: Collaborative Robotics	Dr. William Clyburn, Indiana State University Mr. Oscar Henriquez, Indiana State University	Manufacturing
What manufacturing and service businesses can learn from the airline industry!	Dr. Merwan Mehta, East Carolina University	Manufacturing
Digitally Augmenting Curriculum Delivery	Dr. Charles Weiss, Clemson University	Teaching Innovations (TI)
Using strengths-based leadership in a senior capstone course	Dr. Gretchen Mosher, Iowa State University	Teaching Innovations (TI)
Thursday, November 2 3:30 PM – 4:15 PM		
In Case of Emergency: How Technology Programs Can Help Develop the Next Generation of Emergency Management Professionals	Dr. Jessica Murphy, Jackson State University	Administration
Does offering certifications assist in the recruitment of undergraduate majors?	Dr. Mark Miller, University of Texas at Tyler	Administration
Building Performance and Human Health: A Study On Breathable Building Envelope and Intelligent Air Distribution Systems	Na Han, Eastern Michigan University	Construction
The Effect of Swine-Waste Biochar on the Flow and Water Absorption Characteristics of Cement Pastes	Dr. Andrea Ofori-Boadu, North Carolina A & T State University Dr. Musibau Shofoluwe, North Carolina A & T State University Mr. Rico Kelley, North Carolina A & T State University	Construction
100% Online versus The Classroom: The Optimal Pedagogical Strategy as Demonstrated through Higher Statistically-Significant Grade Performance by Undergraduate and Graduate Students Studying University-Level Quality Systems Engineering	Prof. Joe Long, University of Central Missouri Prof. Troy Ollison, University of Central Missouri Prof. Jeff Ulmer, University of Central Missouri	Distance Learning
Increasing Student Satisfaction in Online Courses	Dr. Edward Lazaros, Ball State University	Distance Learning
Data Hiding Method in Digital Image Steganography	Dr.Biju Bajracharya, Ball State University Dr.David Hua, Ball State University Dr.Christopher Davison, Ball State University	EECT
Optimization of a Solar Power Plant Using an Automated Control System	Joseph Kelly, South Louisiana Community College Gholam Massiha, University of Louisiana at Lafayette	EECT
In-situ Integration of MEMS Switches to Realize Reconfigurable Multifunctional Antennas	Dr .Qingzhou Xu, Morehead State University	EECT
A Microsoft Kinect-based Gesture System to Enhance 3D Visual Communication in Virtual Collaboration	Dr. Yi-hsiang Chang, Illinois State University Ms. Narda Hamilton, University of North Dakota Dr. Dave Yearwood, University of North Dakota	Graphics

Thursday, November 2		
3:30 PM – 4:15 PM		
Discrete Event Simulation Curriculum Effectiveness	Professor Paul Nutter, Ohio Northern University	Manufacturing
Applying Traction/Friction to Prevent Injuries via Slips, Trips, and Falls: Practical and Sustainable Solutions	Mr. Charles Hunt, Norfolk State University Dr. Jeenson Sheen, Norfolk State University Dr. Munir Sulaiman, Norfolk State University	Safety
Developing and Testing an Authentic Safety Assessment	Mr. Wesley Chang, Iowa State University Dr. Gretchen Mosher, Iowa State University	Safety
Successful USGBC LEED® Lab™ Implementation	Dr. James Jones, Ball State University Mrs. Janet Fick, Ball State University	Teaching Innovations (TI)
Developing Effective Visual Representation Schemes to Improve and Measure Student Skills in Circuit Analysis Education	Dr. Sangho Park, Central Connecticut State University	Teaching Innovations (TI)
Thursday, November 2		
4:30 PM – 5:15 PM		
Funding and Finance Strategies for ATMAE Student Chapters	Mr. Daniel Vazquez, Millersville University of Pennsylvania Mr. Joseph Wright, Millersville University of Pennsylvania	Administration
Putting Military Skills to Good Use: Veterans in STEM	Dr. Ivan Mosley, Texas Southern University Dr. Dominick Fazarro, University of Texas	Administration
Challenges and Lessons Learned for Smart City Development: A Guide to Success	Dr. Tarek Mahfouz, Ball State University Dr. James Jones, Ball State University Dr. Sherif Attallah, Ball State University	Construction
Knowledge Management in Construction Industry: A path Towards Complete Integration	Mr. Saeed Bahidrah, Eastern Michigan University Dr. Kasim Korkmaz, Eastern Michigan University	Construction
Recruiting Strategies for Online Programs	Dr. Edward Lazaros, Ball State University Dr. Christopher Davison, Ball State University Dr. David Hua, Ball State University	Distance Learning
Stakeholder reactions to using e-learning as an alternative to snow days	Dr. David Hua, Ball State University	Distance Learning
Can application of a split protocol design improve Unsolicited Message transactions in the Distributed Network Protocol 3.0?	Dr. Patrick Appiah-Kubi, University of Maryland University College Mr. Anand Richard, Saint Joseph's College	EECT
Teaching Finite State Machines (FSMs) as Part of a Programmable Logic Control (PLC) Course	Dr. Curtis Cohenour, Ohio University	EECT
Strategies to Convert a Face-to-Face Color Management Course to an Online Format based on Perceptions of Students	Dr. Devang Mehta, North Carolina A&T State University	Graphics
Modeling and Improvement of Transmission	Mr. Elliott Davis, Eastern Kentucky University Dr. Ni Wang, Eastern Kentucky University	Graphics
Best Practices in Sustainable Supply Chain Management	Dr. James Smallwood, Indiana State University	Manufacturing
Firefighter Fall Notification System: Design and Development	Dr. David Hua, Ball State University	Safety
Pragmatic use of technology for tracking kidnapped victims in Nigeria	Dr. Osileke Osipitan, New York State Department of Transportation	Safety
Understanding technology barriers to help facilitate the Plant Breeding E-Learning in Africa	Mr. Levin Koshy, Iowa State University Dr. Shweta Chopra, Iowa State University Dr. Walter P. Suza, Iowa State University	Teaching Innovations (TI)

Thursday, November 2 4:30 PM – 5:15 PM		
First-Year Mechatronic Experiences: Towards Predicting Student Motivation	Mr. John Haughery, Iowa State University Dr. Raj Raman, Iowa State University Dr. Steven Freeman, Iowa State University	Teaching Innovations (TI)
Constructing the Future of Tomorrow: The Effect of Communication Style on Team Performance	Dr. Sophia Scott, Southeast Missouri State University Ms. Arya Khanal, Southeast Missouri State University	Teaching Innovations (TI)
Friday, November 3 8:00 AM – 8:45 AM		
Curricula of ATMAE Accredited University Programs: Building a Composite	Dr. Mark Doggett, Western Kentucky University	Administration
Building Our Workforce for Tomorrow: The application of reverse curricular mapping to align employment expectations to education and training in the manufacturing sector	Dr. Ryan Walker, Mississippi State University	Administration
Perception of Women Working in the Construction Industry	Ms. Jennifer Warrner, Ball State University	Construction
BIM and Wearable Technologies: The Future of Construction Safety Management	Dr. James Stein, Eastern Michigan University	Construction
Online Program Recruiting Strategy Success in the Midwest	Dr. Edward Lazaros, Ball State University	Distance Learning
Virtualization: Implementation and Growth, Policies and Management	Dr. Christopher Davison, Ball State University Dr. Edward Lazaros, Ball State University Dr. David Hua, Ball State University	Distance Learning
Building a 20/20 view of the network: Open-source tools for mapping the system and traffic flow	Dr. Vigyan Chandra, Eastern Kentucky University	EECT
Harvesting Electromagnetic Radiation for Renewable Energy Use	Ms. Erika Murray, Eastern Illinois University	EECT
Employers' Expectations of Graduates Technical & Managerial Competencies in the Digital Graphics & Print Media Industry: A Study of New England States Region	Dr. Naik Dharavath, Central Connecticut State University	Graphics
Exploring the Benefits of Collaborative Design using Onshape: A Full-Cloud, 3D CAD That Runs on a Web Browser.	Dr. Doug Koch, University of Central Missouri	Graphics
Implementing 3D Printer to Produce Parts for Medical Applications	Dr. Gholam Massiha, University of Louisiana at Lafayette	Manufacturing
Critical thinking and decision making integration into fluid power laboratory safety training	Mr. Saxon Ryan, Iowa State University Dr. Gretchen Mosher, Iowa State University	Safety
Industrial Safety Management: Hazard Identification and Risk Control	Yu-Chun Chou, Texas A&M University - Kingsville	Safety
Automatic Identification Data Capture towards Robust Material Handling, a Key Learning Pedagogy for Warehousing Class	Dr. Mohammed Ali, University of Texas at Tyler	Teaching Innovations (TI)
A study to develop a four-week instructional workshop in Organizational Dynamics and a model for assessing and forecasting potential enrichment opportunities in technology leadership	Dr. Cynthia Horta-Martinez, University of Central Missouri Dr. Ronald Woolsey, University of Central Missouri	Teaching Innovations (TI)

Friday, November 3 9:00 AM – 9:45 AM		
Project Managing Your Accreditation Process Successfully and Smoothly	Ms. Pamela McGee, Minnesota State University	Administration
Community College and 4-Year School Partnerships	Dr. Sharon Rouse, Mitchell Community College Robert Chin, East Carolina University	Administration
Faculty Lead Student Competition: Designing and Building a Concrete Canoe	Dr. Ahmed Mohamed, Indiana State University Dr. Michael Williamson, Indiana State University	Construction
Distance Learning Technologies and the Virtual Classroom	Dr. Christopher Davison, Ball State University Dr. David Hua, Ball State University Dr. Biju Bajracharya, Ball State University	Distance Learning
Friday, November 3 9:00 AM – 9:45 AM		
A Low Cost Control System Laboratory for Engineering Management and Technology (ETM) Students	Dr. Curtis Cohenour, Ohio University	EECT
Using Device Level Ring Topology to Increase Network Reliability in Mission Critical Industrial Control Systems	Dr. William Clyburn, Indiana State University Mrs. Edith Wittenmyer, Indiana State University	EECT
Gamification: Increase student engagement by gamifying your classroom	Dr. Carl Blue, University of Southern Maine	Graphics
Augmented Reality in the Classroom: Development of a stationary bicycle with virtual environment for new learners	Dr. Ulan Dakeev, Texas A&M University-Kingsville Dr. Farzin Heidari, Texas A&M University-Kingsville Dr. Faruk Yildiz, Sam Houston State University	Graphics
STUDY OF ALUMINUM OXIDE PARTICLES ON MILD STEEL BY HEAT TREATMENT PROCESS FOR ANTI CORROSION		Manufacturing
Learning Requirements for Manufacturing Organizations	Dr. Teresa Clark, Murray State University Mr. Sidney Martin, III, Murray State University	Manufacturing
Predicting Elastic, Bulk, and Shear Modulus for Cement Clinkers under Varying Pressure Conditions.	Dr. Ahmed Mohamed, Indiana State University Dr. Ali Shahhosseini, Indiana State University	Micro/ Nanotechnology
Assessment of the Condition of Power-Take-Off Guarding Systems on Farm Machinery	Miss Joy Sheldon, Indiana State University Dr. Ernest Sheldon, Indiana State University	Safety
Understanding human performance modes in occupational safety	Mr. Daniel Borkowski, Indiana State University	Safety
Measurement and use of critical thinking in a fluid power course	Mr. Saxon Ryan, Iowa State University Dr. Gretchen Mosher, Iowa State University	Teaching Innovations (TI)
Integrated STEM Assessment Design: Challenges and Opportunities	Dr. Paul Asunda, Purdue University	Teaching Innovations (TI)
Friday, November 3 10:15 AM – 11:00 AM		
A comparative study of 2-year technology programs accredited by ATMAE and ETAC of ABET	Robert Chin, East Carolina University Dr. Sharon Rouse, Mitchell Community College	Administration
Stronger together: How developing a joint ATMAE accreditation report is streamlining individual program operations	Dr. Vigyan Chandra, Eastern Kentucky University	Administration
Preparing Educators for the Online Platform	Dr. Edward Lazaros, Ball State University Dr. David Hua, Ball State University Dr. Christopher Davison, Ball State University	Distance Learning

Friday, November 3		
10:15 AM – 11:00 AM		
Three-dimensional RGB-D Camera Sensor Usage for Industrial Robotics Applications	Dr. Wutthigrai Boonsuk, Eastern Illinois University	EECT
Satellite Tracking Control Implemented in Matlab®+	Dr. Curtis Cohenour, Ohio University	EECT
UX Design: A Sample Lesson Plan for the Graphics Curriculum	Dr. Hope Carroll, UW-Stout	Graphics
RepRap 2.0: Moving from Filament to Resin	Dr. Yi-hsiang Chang, Illinois State University Mr. William Walker, University of North Dakota Mr. Zackary Vacura, University of North Dakota Ms. Shae Bonifacio, University of North Dakota	Micro/ Nanotechnology
Analysis of Blood Flow in an Aorta when cholesterol or fat content is present on the inside walls	Mr. Akhil Mankala, Texas A&M University Kingsville	Micro/ Nanotechnology
The Prediction and Classification of Occupational Incidents Severity Using Workers' Compensation Data	Dr. Steven Freeman, Iowa State University Dr. Gretchen Mosher, Iowa State University	Safety
Air Quality and Noise Assessment in Confinement Livestock Facilities	Mr. Alexander McDaniel, Indiana State University Dr. Ernest Sheldon, Indiana State University	Safety
The Preceptorial: Rigorous Small Group Educational Experiences Using Industry Partners	Dr. Tim Obermier, University of Nebraska Kearney	Teaching Innovations (TI)
Addressing the Needs of Non-Math Majors in Math Intensive Courses	Mr. Jesus Pagan, Ohio University	Teaching Innovations (TI)
Friday, November 3		
11:15 AM – 12:00 PM		
Academic Outreach and Student Recruitment Programs to Attract Youth to STEM Programs through Mobile Renewable Energy Education	Dr. Faruk Yildiz, Sam Houston State University	Administration
A Marketing/Recruiting Strategy for your STEM Program	Dr. James Smallwood, Indiana State University	Administration
Accelerating Tomorrow's Robotic Applications through visualization: Experiential learning using Visionary Render	Dr. Jesus Pagan, Ohio University	EECT
Etcher Z-Axis Adjustment	Mr. Lucas Poynter, Eastern Kentucky University Dr. Ni Wang, Eastern Kentucky University Dr. Vigs Chandra, Eastern Kentucky University	EECT
Nano-Scale Level Simulation Model for Quasi-Static Laboratory Compression Test	Dr. Ahmed Mohamed, Indiana State University Prof. Randell Peters, Indiana State University	Micro/Nanotechnology
Bulk Mechanically Alloyed Oxide Dispersed Copper for Solid-State Foaming	Mr. Joseph Wright, Millersville University of Pennsylvania Mr. Roger Welsh, Millersville University of Pennsylvania Dr. Mark Atwater, Millersville University of Pennsylvania	Micro/Nanotechnology
Potential Health Impact of Radiofrequency Radiation on Humans	Dr. Tatiana Goris, Pittsburgh State University Dr. Eli Aba, Pittsburg State University Ms. Janaki Koppolu, Pittsburg State University Mrs. Marina Fligor, HANAU Health Group	Safety
Constructing the Open Road: Teaching with IoT and Ambient Internet Technologies	Dr. Vigyan Chandra, Eastern Kentucky University	Teaching Innovations (TI)
Trends for getting Technology Teachers in the K-12 classrooms	Mr. Darnell Austin, California State University, Fresno	Teaching Innovations (TI)

