Day/Time	Room	FL 2 Teche	FL-2 Madewood	FL-2 Belle Grove & Terrace	FL-2 Oak Alley	FL-1 Lobby Lvl Regal Suite
Wednesday	10:30-11:00	**40: Adapting a Fatigue Testing Machine for 3D Printed Polymers: An Educational Experience** Presented by: Dr. Ahmad Fayed, Southeastern Louisiana University	**1: Design and Assessment of an Augmented Reality Station for Invasive Species Education Using Demographic and Academic Stratification** Presented by: Rasime Yagmur Celikkaya, Sam Houston State University; Alexis Montoya, Sam Houston State University	**115: Operational Design Thinking for Complex Environments** Presented by: Berry Schnetter, Iowa State University	**42: Why you should take the Lean Six Sigma Yellow Belt Certification Exam at the ATMAE Conference** Presented by: Dr. Heshium Lawrence, The University of Texas at Tyler; Dr. Mahmoud Al-Odeh, Fitchburg State University; Dr. Mark Miller, The University of Texas at Tyler	
Wednesday	11:00-11:30	**41: Investigating the Degradation of 3D Printed Parts under Thermal Cyclic Loading: A Project-Based Learning Experience** Presented by: Dr. Ahmad Fayed, Southeastern Louisiana University	**9: AI-Assisted Course Development and Content Management: A Progressive Automation Framework for Technology Education** Presented by: Dr. Armen Ilikchyan, Utah Valley University	**133: Designing for Needs: Human-Centered Assistive Technology - Rotating Tablet Stand** Presented by: Ms. Lily Hogan, Iowa State University; Ms. Isabella Morris, Iowa State University; Ms. Vivian Wilson, Iowa State University	**21: Impact of Virtual Reality Graphics in Hazard Identification Training** Presented by: Dr. Gabriel Grant, Eastern Illinois University; Dr. Kelly Best, Eastern Illinois University	
Wednesday	11:30-12:00	**57: Mandibular Plate Bending Using a Custom-Built Robotic Arm** Presented by: Mr Anirudh Balmuri, Eastern Illinois University	**37: Teaching Prompt Engineering in Construction Management Programs** Presented by: Dr. Mohamed Abdel Raouf, Ball State University	**135: Aesthetic Intelligence: Using Intentional Sensory Design to Create Products that Enhance Childhood Development** Presented by: Ms. Rocio Melendez Perez, Iowa State University; Dr. Grit Sadtler, Iowa State University	**29: Using GIS Technology to Develop a Spatial Dataset of Grain Storage Infrastructure for Agricultural Safety Research** Presented by: Yan Jiang, Iowa State University	
Wednesday	12:00 - 1:00	Lunch Break				
Wednesday	1:00-1:30	**70: The Adoption, Workforce Competencies, and Organizational Readiness of Digital Engineering in Manufacturing -- A survey with 200+ manufacturing companies** Presented by: Dr. Yuqiu You, Ohio University	**32: AVATAR: AI-Assisted Virtual Assistant and Augmented Twin for Advanced Real-Time Smart Building Facilities Management** Presented by: Dr Reachsak Ly, Eastern Illinois University	**147: Digital to "Tactile" Touch: A Prototype System for Remote Textile Communication** Presented by: Miss Chia-Min Lee, Iowa State University	**88: Organizational Priority Signaling and Safety Engagement: A Sensemaking Perspective** Presented by: Mr Alan Dougherty, Iowa State University; Dr Nir Keren, Iowa State University	
Wednesday	1:30-2:00	**55: Development and Validation of an Edge-Centric Cyber-Physical Framework for Real-Time Predictive Maintenance** Presented by: Dr. Greg Arbuckle, Western Kentucky University	**54: Simulated Office, Real Impact: Comparing Technical Sales Role-Play Performance Across Classroom and Distance Observation Settings** Presented by: Dr. Benjamin Brachle, University of Nebraska at Kearney		**89: Methodology for Studying the relationship between organizational priority signaling and Safety Engagement** Presented by: Mr Alan Dougherty, Iowa State University; Dr Nir Keren, Iowa State University	
Wednesday	2:00-2:30	**76: Open-Source Driven Enterprise Network Security: A NIST-Compliant Zero Trust Model for Start-Ups and Small and Medium Scale Enterprises (SMEs)** Presented by: Dr Rigoberto Chinchilla, Eastern Illinois University	**61: Teaching Swiss Machining with Confidence: A Fusion 360–Driven, Scaffolded Curriculum for the ASPX Nano Swiss Lathe** Presented by: Dr. John Wyatt, Mississippi State University	**181: From Cowbells to Careers: Graduate Pathways in Technology, Leadership, & Design** Presented by: Lara Threet, Mississippi State University; Dr. Durrington, Mississippi State University	**19: Hazardous Occupational Noise: A VR Platform for Real-Time Performance and Safe Behavior Measurement** Presented by: Cody Volkmann, Iowa State University; Dr. Nir Keren, Iowa State University	
Wednesday	2:30-3:00	**80: AI in future manufacturing systems: case study and analysis** Presented by: Mr. Luke Garrett, Ohio University; Mr. Brock Falkenstein, Ohio University; Mr. Andrew Gill, Ohio University	**72: Simulation-Based Ethics Instruction in a Technical BAS Program: Scaling DeepWaterSIM Across Modalities in TMGT 3347** Presented by: Dr. Leslie Hall, LoneStar College (University Park); Dr Shelia Jennings, Lonestar College	**161: Why Lean Transformations Fail** Presented by: Dr Eli Aba, UW-Stout; Dr. Chang-Ray Chen, UW-Stout	**131: Applying Conversational AI to Workplace Safety: Development, Testing, and Lessons Learned** Presented by: Dr. Nir Keren, Iowa State University; Jacob Housour, Iowa State University	

Day/Time	Room	FL 2 Teche	FL-2 Madewood	FL-2 Belle Grove & Terrace	FL-2 Oak Alley	FL-1 Lobby Lvl Regal Suite
Thursday	8:00-8:30	**119: From Grades to Trades: Rethinking Pathways to Close the Skills Gap in an Evolving Workforce** Presented by: Dr. Andrew Johnson III, Lone Star College - University Park; Dr. Steven Kahla, Lone Star College - University Park	**26: Graduate Students and Generative AI: A Survey of Usage Frequency, Academic Purposes, and Perceived Challenges** Presented by: Dr. Luis Orozco, Ball State University	**3: Attracting High / Middle School Students into Industrial Engineering Technology Careers** Presented by: Dr. Merwan Mehta, East Carolina University		**59: Robotic Additive Manufacturing of Support-Free Parts** Presented by: Dr. Mohammad Ahmed, Southeastern Louisiana University
Thursday	8:30-9:00	**123: EV Revolution: Forecasting Adoption and Infrastructure in the U.S.** Presented by: Dr. James Ejiwale, Jackson State University	**27: Faculty Use and Perceptions of AI in Higher Education** Presented by: Dr. Luis Orozco, Ball State University	**50: Using AI as a Co-Pilot in Project Management Education** Presented by: Mr. David Stec, Central Connecticut State University		**60: Dimensional accuracy of additively manufactured parts: effects of slicing profiles and hardware configurations** Presented by: Dr. Mohammad Ahmed, Southeastern Louisiana University
Thursday	9:00-9:30		**99: Driving Innovation in a Graduate Technology Program for Distance Learners** Presented by: Dr. Joseph Joyce, Eastern Michigan University	**51: Designing a Career Readiness Competencies Course** Presented by: Mr. David Stec, Central Connecticut State University		**77: Identifying Critical Processes and Variables for SPC** Presented by: Dr Mark Doggett, Western Kentucky University
Thursday	9:30-10:00	Break				
Thursday	10:00-10:30	**136: 3D Printing Using Pelletized Composite Material Feedstock** Presented by: Dr. Mehmet Bahadir, Southeastern Louisiana University	**85: Design for Dignity: An Interdisciplinary Approach to Custom Assistive Technology** Presented by: Dr. Grit Sadtler, Iowa State University; Dr. Ashley Murray, Drake University	**145: Data storage and management strategies for process-based organizations** Presented by: Dr. Gretchen Mosher, Iowa State University; Dr. Saxon Ryan, Iowa State University	**49: Incorporating Fuzzy Logic In Teaching & Assessment** Presented by: Dr. Melissa Stange, Laurel Ridge Community College; Professor Rachel Stange, Laurel Ridge Community College	**78: Artificial Intelligence–Enabled Lean Six Sigma: Advancing DMAIC Through Data-Driven Process Improvement** Presented by: Dr. Swapnil Patole, Mississippi State University
Thursday	10:30-11:00	**166: Closed-Loop Recycling of FDM Thermoplastic Waste into Functional Filament and Pelletized Feedstock** Presented by: Dr. Mehmet Bahadir, Southeastern Louisiana University	**74: Evaluating AI Tools for Product Design, Development, and Production: Feasibility and Implications for Higher Education** Presented by: Dr. Saxon Ryan, Iowa State University; Dr. Grit Sadtler, Iowa State University	**151: From Micro/Nano to the Cosmos: Celebrating Innovation in Astronomical Observation** Presented by: Dr. Matthias Pleil, University of New Mexico	**68: Real-Time Object-Level Thermal and Spatial Fusion Using RGB-D Sensing and Computer Vision** Presented by: Mr Kuladeep Perumalla, Eastern Illinois University	**86: Model-Based Digital Lean Cell Development for Aerospace Startups Using DMADV and Industry 4.0 Tools** Presented by: Pedro Cupertino, ILIOS Aerospace
Thursday	11:00-11:30	**143: Measuring Innovation: AI-Enabled Efficiency and Outcomes Across Five Global Enterprises** Presented by: Dr. Suhansa Rodchua, University of Central Missouri; Ms. Consolata Nzioki, University of Central Missouri; Mr. Vishnu Rudravaram, University of Central Missouri	**100: From Virtual to Physical: How Augmented Reality is Redefining Workforce Readiness in Advanced Manufacturing** Presented by: Dr. Sergio Sgro, Eastern Kentucky University	**15: Advancing Nanomaterial Safety and Risk Assessment: Nanoinformatics for Safe and Sustainable Environmental Remediation** Presented by: Dr. Ephraim Massawe, Southeastern Lousiana University	**82: Interactive 3D Haptic Game** Presented by: Dr. Maria Javaid, Indiana State University	**134: The Impact of Physical Manipulatives on GD&T Instruction** Presented by: Teresa Janowski, Michigan Technological University
Thursday	11:30-12:00	**64: Making Music: Collaboration Across Disciplines** Presented by: Ms. Lara Threet, Mississippi State University; Dr. Olivia Boatman, Mississippi State University	**102: The Intelligence Crisis – AI and Potential Collapse of the Modern Economy** Presented by: Dr. Rendong Bai, Eastern Kentucky University; Dr. Vigs Chandra, Eastern Kentucky University	**14: Women in Heavy Industrial Engineering: Exploring Workforce and Educational Pathways** Presented by: Dr. Ephraim Massawe, Southeastern Lousiana University	**92: A Machine-Learning Decision Framework for Classifying Electronic Parts to Optimal End-of-Life Recycling Pathways** Presented by: Dr. Kouroush Jenab, Morehead Sate University	**138: Operational Technology: Direct monitoring and Statistical Process Control of HAAS Minimill Coolant pH Level** Presented by: Dr. Adam Lynch, Wichita State University
Thursday	12:00-1:00	Lunch Break				
Thursday	1:30-2:00	**164: A Systems Engineering Framework for Design-Phase Certification of Light Sport Aircraft under FAA Part 22 MOSAIC** Presented by: Mr. Pedro Cupertino, ILIOS Aerospace	**114: Solid-State Transformers and High-Voltage DC Architecture for AI Data Centers** Presented by: Dr. Jin Zhu, University of Northern Iowa	**167: From Industry 4.0 Adoption to Resilience: Extending SME Digital Transformation Frameworks** Presented by: Dr. Ravindra Thamma, Central Connecticut State University; Mr. Moses Taaboo, Central Connecticut State University; Dr. Oyetunji Olaniba, Central Connecticut State University;	**127: Design and Development of an Automated Beetle Trap** Presented by: Dr. Faruk Yildiz, Sam Houston State University	
Thursday	2:00-2:30	**25: Closing the Loop: Enhancing Course Assessment Practices** Presented by: Dr. Kiyun Han, University of Arkansas Fort Smith; Monique Bracken, University of Arkansas Fort Smith	**110: Internet of Things Lab Integration for Online Wireless Networking Course Development in Engineering Technology** Presented by: Dr. Jin Zhu, University of Northern Iowa	**168: Human - AI Collaboration for Resilient SME Manufacturing** Presented by: Dr. Ravindra Thamma, Central Connecticut State University; Mr. Moses Taaboo, Central Connecticut State University ; Dr. Oyetunji Olaniba, Central Connecticut State University;	**137: The Missing Middle: Assistive Robotic Bathing Tool for Mobility-Limited Adults** Presented by: Susan-Carol Besong, University of Central Missouri	
Thursday	2:30-3:00		**142: Building Core Conceptual Understanding Task Automation While Programming Robots And Computer Electronic Systems** Presented by: Dr. Jishu Medhi, Eastern Kentucky University; Prof. Vigs Chandra, Eastern Kentucky University	**8: Additively Manufactured Thin-Walled Structures** Presented by: Dr. Manoj Mugale, Eastern Kentucky University; Dr. Nilesh Joshi, Eastern Kentucky University	**178: Python-driven efficiency in security operations Automating Cybersecurity** Presented by: Azan asif khan, Eastern Illinois University	

Day/Time	Room	FL 2 Teche	FL-2 Madewood	FL-2 Belle Grove & Terrace	FL-2 Oak Alley	FL-1 Lobby Lvl Regal Suite
Friday	8:00-8:30	**108: Identifying a Latent Curriculum Structure for ATMAE-Accredited Baccalaureate Programs** Presented by: Dr. Darren Olson, Central Washington University	**7: Celebrating Innovation Through Collaborative STEM Leadership and Academic Partnerships** Presented by: Dr. Natalie Aman, East Carolina University; Mrs. Maxine Rohrman, East Carolina University	**18: From Lean Six Sigma to DMAIC 4.0: Evidence-Based Validation of Digitally Enabled Continuous Improvement in Manufacturing Systems** Presented by: Dr. Randell Farley, The University of Texas at Tyler; Dr. Mohammed Ali, The University of Texas at Tyler	**Micro/Nanotechnology Rapid Fire Session:** **Development of a Low-cost Automated Microscope** Presented by: Dr. Joseph Wright, University of Connecticut	
Friday	8:30-9:00	**132: Cybersecurity and Prevention in the Aviation Industry** Presented by: Dr Fred Barez, San Jose State University	**28: Minimum Telemetry for Maintenance Decision Support: Bridging Predictive Maintenance and LPWAN Monitoring Systems** Presented by: Mr. William McClung, East Carolina University	**39: The Impact of Powder Particle Size on Hydration Efficiency and Microbial Quality in Protein Beverages** Presented by: Dr. Jeffrey Cunion, Tarleton State University	**The Micro/Nanotechnology Workforce** Presented by: Dr. Matthias Pleil, University of New Mexico	
Friday	9:00-9:30	**162: Student Training Education on Emergency Response (S.T.E.E.R.) through Virtual Reality Simulation Technology** Presented by: Dr. Jessica Murphy, Jackson State University	**45: What is the New ATMAE Certified Industrial Robotics Programmer (CIRP) Credential?** Presented by: Dr. Mark Miller, The University of Texas at Tyler; Dr. Heshium Lawrence, The University of Texas at Tyler; Ms. RaeJean Griffin, The University of Texas at Tyler	**53: Reducing Human Error in Line Clearance Processes Through Lean Six Sigma in Ophthalmic Manufacturing** Presented by: Dr. Jeffrey Cunion, Tarleton State University	**Advances in Forensic Characterization using Atomic Force Microscopy** Presented by: Dr. Dominick Fazarro, University of Texas at Tyler	
Friday	9:30-10:00			**20: Carbon Emission Analysis of 3D Printing Produced Parts with ABS, PLA, and PETG Plastic Materials** Presented by: Julie Zhang, University of Northern Iowa	**156: Ductility and Strain Concentration Sensitivity of Wrought and AM Ti6Al4V** Presented by: Dr. Joseph Wright, University of Connecticut	

Track Colors:

Advanced/Emerging Technologies	Manufacturing	Student
Distance Learning/Teaching Innovation & AI	Micro/Nanotechnology	Women in Technology
Electronics & Computer Technology (EECT)	Safety	Other
Management		