Keynotes

Opening Keynote (September 10, 2015): 10:00 – 11:00 am

Dr. Pamela McCauley
Professor, Department of Industrial Engineering and Management Systems
Director, Human Factors in Disaster Management Research
University of Central Florida
Orlando, Florida, USA

Dr. Pamela McCauley is an ergonomics and biomechanics expert, a popular keynote speaker, and a professor in the Department of Industrial Engineering and Management Systems at the University of Central Florida where she leads the Human Factors in Disaster Management Research Team and serves as Director of the Ergonomics Laboratory. She previously held the position of Martin Luther King, Jr. Visiting Associate Professor of Aeronautics and Astronautics at the Massachusetts Institute of Technology.

She is the author of over 80 technical papers, book chapters, conference proceedings and the internationally acclaimed ergonomics textbook, Ergonomics: Foundational Principles, Applications and Technologies. Many of her leadership, diversity, innovation and STEM education related keynote talks draw from her research-based book Transforming Your STEM Career Through Leadership and Innovation: Inspiration and Strategies for Women as well as her personal story; Winners Don't Quit . . . Today They Call Me Doctor.

Dr. McCauley has received numerous awards in recognition of her professional accomplishments including the prestigious 2015 Black Engineer of the Year Educational Leadership Award and a 2012 Fulbright Specialist Scholar award. Most recently, she was awarded a Jefferson Science Fellowship with the US State Department. The Jefferson Science Fellowship program serves as an innovative model for engaging the American academic science and engineering communities in U.S. foreign policy.

Dr. McCauley's research focus includes the ergonomics of disaster management, the development of artificial intelligence models using fuzzy set theory, and the critical global ergonomics of treating Ebola and other infectious diseases.

Thursday Lunch Keynote (September 10, 2015): 1:00 – 2:00 pm

Thomas Seubert
North American Delivery Lead for Manufacturing Execution Systems
Tata Technologies
Novi, Michigan, USA

Upcoming Manufacturing Execution Systems (MES) Trends

Thomas Seubert is currently the North American Delivery Lead for Manufacturing Execution Systems for Tata Technologies, which connects the manufacturing plant floor with IT systems for better manufacturing support efficiencies. He has over 20 years' experience in Manufacturing plant floor systems, starting as a Controls engineer to IT Systems and Controls/IT Integration and then manufacturing business processes. Mr. Seubert has expertise in Allen Bradley Programmable Logic Controllers, including ControlLogix, PLC-5, and SLC-500 and HMI solutions. These include RSLogix 5000, 500, 5; RSLinx, RSView (SE & ME), Factory Talk Transaction Manager, Cimplicity, iFix, and Wonderware and also able to use VFDs and all types of Input/Output devices. He has expertise in electrical, hydraulic, and pneumatic hardware systems.

Mr. Seubert has also expertise in GM Assembly and Stamping Plant operations through all of GMs Manufacturing Execution Systems. Consulted with Pontiac Stamping, Grand Rapids Stamping, Detroit Hamtramck Assembly, Lansing Grand Rapids Assembly, Orion Assembly, Fort Wayne Assembly, Shreveport Assembly, Janesville Assembly, and with Ruesselsheim, Germany Assembly and Zaragosa, Spain Assembly. Familiar with GM Standards CCH-1 and CCS-2. He has experiences with the Daimler Chrysler system Factory Information System. Worked with

Windsor Assembly and Toledo North Assembly Plants. Mr. Seubert authored a Language and Cultural Training White Paper dealing with the limitations of the training.

His specialties are in manufacturing, VB.Net, business processes, Cimplicity, engineering, German, hardware design, MES, networking, Wireless, PLC, project management, requirements analysis, SCADA, servers, software architecture, SQL, system documentation, systems integration, training development and delivery, troubleshooting, validation, and Wonderware.

Mr. Seubert received Bachelor of Science in Electrical Engineering from Lawrence Technological University and Post Graduate Studies in Engineering from Wayne State University.

Friday Morning Keynote (September 11, 2015): 10:00 – 11:00 am

Alastair Orchard

Director Digital Enterprise Projects
Siemens PLM Software
Genoa, Italy

"The Role of Manufacturing Engineering in the Digital Enterprise"

Throughout 20 years of experience first as a manufacturer and then with Siemens, Alastair has focused on the gains in operational efficiency delivered by advanced control, then MES and now Industry 4.0.

Siemens has been at the industrial forefront of each wave of social advancement. In 2007, conscious of the impact that software would have on manufacturing, Siemens acquired UGS and added Product Lifecycle Management to our Industrial Software portfolio. In combination with Manufacturing Operations Management, Intelligent Automation and Big-Data capabilities, Siemens uses the Teamcenter Collaboration Platform to bring the virtual world of product design and the real world of manufacturing operations execution into a seamless integrated Digital Enterprise Software Suite.

Alastair currently runs the Digital Enterprise Project, helping customers take advantage of the synergies possible between ideation and realization and lead the manufacturing renaissance. He works with multinationals like Ford, Chrysler, Rolls Royce, Airbus, Cargill, Kraft, Monsanto, Unilever, P&G, and Siemens' own 300 manufacturing facilities to become more flexible, cost effective, transparent, collaborative organizations, and to bring their world-class products to market faster than their competitors. Mr. Orchard is an engineering graduate of Loughborough University, UK.

Wednesday Lunch Keynote (September 11, 2015): 1:00 - 1:45 pm

Dr. Miguel Gastón Cedillo-Campos
Professor in Logistics Systems Dynamics
Senior Researcher, Mexican Institute of Transportation
Founding President, **Mexican Logistics and Supply Chain Association (AML)**
Mexico

Dr. Gastón Cedillo is a Professor in Logistics Systems Dynamics and Founding Chairman of the Mexican Logistics and Supply Chain Association (AML). Dr. Cedillo is National Researcher Level 1 (National Council of Science and Technology), Innovation Award 2012 (UANL-FIME) and National Logistics Award 2012. In 2004, he received a Ph.D. in Logistics Systems Dynamics from the University of Paris, France. Recently, he was collaborating as Visiting Researcher at MIT-Zaragoza Logistics Center. He works in logistics systems analysis and modeling, risk analysis, and supply chain management, which are the subjects he teaches and researches in different

prestigious universities in Mexico and abroad. Dr. Cedillo is the Scientific Chairman of the International Congress on Logistics and Supply Chain (CiLOG) organized by the Mexican Institute of Transportation (IMT) in partnership with the Mexican Logistics and Supply Chain Association (AML).

Professor Cedillo-Campos has consulted widely for government agencies and leading manufacturing, retail and transportation enterprises all over Latin America. He is also an active entrepreneur, having founded and co-founded three successful technology based organizations:

- Supply Chain and Development Research Center (CiDeCS) at Tecnológico de Monterrey, Campus Guadalajara;
- Mexican Logistics & Supply Chain Association (AML);
- YoLogistico.COM

He is the author of several scientific publications in top journals as Transportation Research Part E: Logistics and Transportation Review, Computers and Industrial Engineering, Computers in Industry and two books:

- Dynamic Analysis of Industrial Systems (Trillas, 2008).
- Supply Chain Clustering: The new logistics frontier (AML, 2015).

Dr. Cedillo is a regular speaker at industrial engineering and logistics conferences and has also been an invited speaker on issues in supply chain in USA, Panama, Colombia, France and Spain. Currently, he participates extensively in logistics executive education at Mexican Logistics and Supply Chain Association as well as several other recognized institutions. At the same time, he is leading the National Center for Innovation in Intermodal Transportation and Logistics of Mexico. A National Center for Excellence integrated by the nine leading supply chain research labs in Mexico.

Friday Lunch Keynote, September 11, 1:45 – 2:30 pm

Uriel R. Cukierman
Professor/Researcher
Facultad Regional Buenos Aires
Universidad Tecnológica Nacional
Buenos Aires, Argentina
and
President, International Federation of Engineering Education Societies (IFEES)

Uriel Rubén Cukierman received a professional degree in Electronic Engineering from the Universidad Tecnológica Nacional (UTN), Argentina, and a master's degree in Enterprise Information Systems Management from the Universidad Politécnica de Madrid (UPM), Spain. He is presently working on his PhD thesis in the area of Learning Sciences at the Universidad de Buenos Aires (UBA), Argentina.

Presently professor and researcher at UTN, he has served as the Dean of Engineering at the Universidad de Palermo (UP) and, previously, as the Information & Communications Technologies Secretary (equivalent to a VP position) at UTN, the largest Engineering School in Argentina, for more than 15 years. Two years ago, he co-chaired and hosted the World Engineering Education Forum (WEEF) 2012, the largest ever engineering education conference, coordinating with eight different global organizations, several government agencies and corporate sponsors. Not only was it a huge success for students and faculty, but for the conference committee, as they were able to break even financially.

Former Director of the Learning Technologies Bachelor at UTN. Electronic Department founder and former Director at Technical School ORT Argentina. Research interests in Learning Technologies include the areas of mobile devices, learning management systems and the digital divide. Professor Cukierman has contributed to the National Universities Network as a member of its Administrating Committee and has worked as consultant for the National Communication Secretary and National Education Ministry in projects for distance learning and reducing the digital divide. Taught at the university level for over thirty years in electronics, computing, multimedia and learning technologies. He has served as a lecturer in seminars, courses and other specialized activities throughout Argentina and around the world. Wrote and published several original technical documents in different newspapers, journals and magazines in Argentina and in other countries. Produced three books about Learning Technologies and

Engineering Education, one of which was published by Pearson. Authored five book chapters and more than 40 technical papers in refereed journals and conferences.

Other positions: IFEES President (2014-2016); IFEES Executive Committee Member (2013-2015); GEDC Executive Committee Member (2013-2016); LA Horizon Report (NMC) Advisory Board Member (2013); STEM Horizon Report Advisory Board Member (2012-2013); Member of the Learning Technologies Program Board at UTN; Member of the Asociación para el desarrollo de la Tecnología Educativa y de las Nuevas Tecnologías aplicadas a la educación (EDUTEC) – Spain; Member of the Technical Committee at the Latin American and Caribbean Collaborative ICT Research Federation (LACCIR Virtual Institute); Member of the iNEER (International Network for Engineering Education & Research) Leadership Council (2006/2008); Coordinator at the Red Universitaria de Educación a Distancia (RUEDA) – Argentina (2009/2011); Secretary of the Executive Committee at Red de Interconexión Universitaria (RIU) – Argentina (2005/2009); Former Chairman of the Microsoft Research Latin American Advisory Board (2003/1007).