39th International Annual Conference of the American Society for Engineering Management (ASEM 2018)

Bridging the Gap Between Engineering and Business

Coeur d’Alene, Idaho, USA
17 – 20 October 2018

ISBN: 978-1-5108-7464-0
Emerging Area: Energy Systems (EA I)  
8:15 AM - 9:15 AM  
Bay 1B  
Session Chair: Patricia Quigley, Track Chair: Ona Egbue, University of South Carolina Upstate

Yu Li, Missouri University of Science and Technology  
Zeyi Sun, MO S&T - EMSE Department  
Ruwen Qin, Missouri University of Science and Technology

Let the Customers Choose: Coal, Consumers, and Energy  
Arlexis Branson, Western Michigan Univ  
Larry Mallak, Western Michigan University  
David Lyth, Western Michigan University

Identifying Key Variables on Surface Radiation Budget Using Design of Experiments Methods  
Patricia Quigley  
Resit Unal, Old Dominion University  
Charles Daniels, ODU - EMSE  
T Steven Cotter, Old Dominion University

General Engineering Management (GEM I)  
8:15 AM - 9:15 AM  
Casco Bay  
Session Chair: Faisal Mahmud, Old Dominion University  
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University

Integrated Product Development and Industry 4.0: A Case Study in an Automotive Company.  
Cassiano Beller, Pontifical Catholic University of Paraná  
Fernando Deschamps, Pontifical Catholic University of Parana  
Edson Pinheiro de Lima, PUCPR  
Eduardo Rocha Loures, Pontifical Catholic University of Parana

Developing a Multi-Level Model of Organizational Resilience  
Heather Keathley, University of Central Florida

Exploiting Ontology- Understanding a Domain of Discourse in Engineering Management  
Faisal Mahmud, Old Dominion University  
Ziniya Zahedi, Old Dominion University

Leadership & Organizational Management (LOM I)  
8:15 AM - 9:15 AM  
Board Room 5 A/B/C  
Session Chair: Sarah Bouazzaoui  
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College

Beyond the Suggestion Box: An Investigative Qualitative Case Study  
Katie Kelly, Montana State University

Revisiting the Effect of Leader-member Exchange on Counterproductive Work Behavior: In the Perspective of Cross-Culture  
Anmin Wang, Tianjin University  
Yan Wang, Tianjin University  
Yanxu Wang, Tianjin University

Application of Monte Carlo Simulation in project Completion Time  
Sarah Bouazzaoui  
Ange-Lionel Toba
Management of Technology, Research and Development (MTRD I)  
8:15 AM - 9:15 AM  
North Cape Bay  
Session Chair: Peter Brown, Texas Tech University  
Track Chair: Elizabeth Gibson, University of Colorado, Boulder

Development of a Conceptual Stage Product Design and Manufacturing Risk Mitigation Assessment  
Larry Dalton, Mississippi State University  
Emily Wall, CAVS-Extension Mississippi State University

The Perversion of Certainty: Choice Architecture, Digital Paternalism and Virtual Validations in the Attention Economy  
Peter Brown, Texas Tech University  
Mario Beruvides, Texas Tech University

Centralized or Blockchain-based Decentralized IT Systems?  
Sujatha Alla, Old Dominion University  
Leili Soltanisehat, Old Dominion University

Operations & Supply Chain Management (OSCM I)  
8:15 AM - 9:15 AM  
Bay 1A  
Session Chair: Joel Mwabi, UJ  
Track Chair: Paul Evangelista, Department of Systems Engineering, USMA; Ivan Guardiola, Fort Lewis College; Caroline Krejci, The University of Texas at Arlington

Manufacturability and the Product Design: Case Study Exploration of Manufacturability Assessments across a Product Lifecycle  
Tonya McCall, Mississippi State University, Center for Advanced Vehicular Systems Extension  
Sara Fuller, Center for Advanced Vehicular Systems Extension - Mississippi State University

Economic Growth and Energy Production: A Comparative Study Among Countries  
Juan Gabriel Vanegas-Lopez, Tecnológico de Antioquia I.U.  
Jaime Ospina, F. U. Autónoma de las Américas  
Jhony Mauricio Gutierrez Florez, Tecnológico de Antioquia, Institución Universitaria  
Jorge Restrepo, F. U. Autónoma de las Américas  
Raúl Ortega, Instituto Tecnológico Metropolitano

Critical Success Factors for Industrial Automation Projects in Southern Africa  
Arnesh Telukdarie, University of Johannesburg  
Joel Mwabi, UJ

Strategic Planning (SP I)  
8:15 AM - 9:15 AM  
Kidd Island Bay  
Session Chair: Mostafa Fawzy, Northern Illinois University  
Track Chair: Edson Pinheiro de Lima, PUCPR

Optimal Site Selection for a City Park using Multi-Criteria Decision Analysis and Optimization Tools  
Nikita Vinayak Abhyankar, San Jose State University  
Rinita Mishra  
Vahab Vahdatzad, Northeastern University

A Systems Framework to Characterize How to Improve Offensive Cyber Operations for Cyber Warfare  
Ernest Wong, Army Cyber Institute  
James Comstock, Dept of Systems Engineering, US Military Academy  
Steven Song, USMA

Balanced Scorecard for Non-For-Profit Organizations in Saudi Arabia: The Balanced Scorecard of Central Correspondence Department at Jeddah Municipality  
Mostafa Fawzy, Northern Illinois University
Emerging Area: Critical Infrastructures (EA II)
10:45 AM - 11:45 AM            Bay 1B
Session Chair: Raymond Smith, East Carolina University
Track Chair: Luna Magpili, Washington State University

Modulus of Resilience: An Isomorphic Application for Critical Infrastructures
Eric Easton, Texas Tech University
Mario Beruvides, Texas Tech University

The Industrial Internet of Things Models, Challenges and Opportunities in Sustainable Manufacturing
Md Maksudul Islam, University of Minnesota at Duluth
Tarek AlGeddawy, University of Minnesota Duluth

Examining Critical Infrastructure Systems using a Systems Thinking Approach
Raymond Smith, East Carolina University
Henry Lester, University of South Alabama

General Engineering Management (GEM II)
10:45 AM - 11:45 AM            Casco Bay
Session Chair: Tara Larson
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University

Global Education to Industry Professionals: 15 Years of Experiences from an Applied Graduate Program
Bharani Nagarathnam, Texas A&M University
Frederick Barry Lawrence, Texas A&M University

Preparing Engineers to Manage Across Disciplines: Practices and Challenges
James Jones, Ball State University

Undergraduate Leadership Programs in Engineering
Tara Larson

Leadership & Organizational Management (LOM II)
10:45 AM - 11:45 AM            Board Room 5 A/B/C
Session Chair: Oussama Hammad, University of Sharjah
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College

Equipping Future Leaders to Best Fit into Complex Security Environment: Emerging Leadership Skills
Ali Kucukozyigit, Old Dominion University

A Comparative Study of Dubai Government Excellence Program’s EFQM and 4th. Generation Of Excellence System Based Models
Oussama Hammad, University of Sharjah
Fikri Dweiri, University of Sharjah

Technical Employees Lacking on Interpersonal Skills
Cecil Medina
Frederick Sexe, Raytheon

Operations & Supply Chain Management (OSCM II)
10:45 AM - 11:45 AM            Bay 1A
Session Chair: Amin Gharehyakheh, University of Texas at Arlington
Track Chair: Paul Evangelista, Department of Systems Engineering, USMA; Ivan Guardiola, Fort Lewis College; Caroline Krejci, The University of Texas at Arlington

Reducing Downtime of Unplanned Boiler Tube Failures in Coal-Fired Electricity Generation Plants
Mammolele Malomane, UJ
Arnesh Telukdarie, University of Johannesburg
Network Analysis for the Scheduling of a Bus Route: CyRide Case Study
Mostafa Fawzy, Northern Illinois University
Qazi Kabir, SUNY Oneonta
Koo ki Sung, Iowa State University

A Nutrition-Based Optimal Approach in Food Bank Logistics
Amin Gharehyakheh, University of Texas at Arlington
Narjes Sadeghiamirshahidi
Strategic Planning (SP II)
10:45 AM - 11:45 AM            Kidd Island Bay
Session Chair: Rafael Duarte, Pontifical Catholic University of Parana (PUCPR)
Track Chair: Edson Pinheiro de Lima, PUCPR

Evaluating Firm’s readiness for Big Data Adoption: A Hierarchical Decision Model
Husam Barham, Portland State University
Elizabeth Gibson, University of Colorado, Boulder
Tugrul Daim, Portland State University

Strategic Business Intelligence Framework: A Method of Analyzing Normative and Descriptive Data Signals
James Schreiner, US Military Academy
Daniel Roman, USMA-West Point
Benjamin Coleman, USMA-West Point
Jon Browning, USMA-West Point
Anders Frieberg

A Framework to Integrate Performance Measurement Systems with Data Analytics
Rafael Duarte, Pontifical Catholic University of Parana (PUCPR)
Rafael Kluska, PUCPR
Fernando Deschamps, Pontifical Catholic University of Parana
Edson Pinheiro de Lima, PUCPR
Eileen Van Aken, Virginia Polytechnic Institute and State University

Systems Engineering (SE I)
10:45 AM - 11:45 AM            North Cape Bay
Session Chair: Owen Gagnon, James Madison University
Track Chair: Javier Calvo-Amodio, Oregon State University; Jekowania Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville

Multiple Levels Requirement Model and its Implementation
Hua Wang, IUPUI
Shuning Li, IUPUI

Collective Individualism: An Inclusive Framework for Communication Systems
Siddhartha Pailla, University of Virginia
Garrick Louis, UVA

Lightweight Structure Material System Design for Additive Manufacturing
Owen Gagnon, James Madison University
Brenton Whanger, James Madison University
Hao Zhang, James Madison University
Emerging Area: Critical Infrastructures (EA III)
1:15 PM - 2:15 PM            Bay 1B
Session Chair: Jonathan Elder, Texas Tech University
Track Chair: Luna Magpili, Washington State University

Water Infrastructure Sustainment via Optimization: A Systems Approach
Keith Horbatuck, Texas Tech University
Richard Burgess, Texas Tech University
Mario Beruvides, Texas Tech University

Understanding Boiler Tube Leaks and Life Cycle Management in the Coal-Fired Power Generation Industry
Ndinannyi Ramadolela, UJ
Arnesh Telukdarie, University of Johannesburg
Jan-Harm Pretorius, University of Johannesburg

Ethical Critical Infrastructure Decision Making in Perpetual Sustainability
Jonathan Elder, Texas Tech University
Richard Burgess, Texas Tech University
Mario Beruvides, Texas Tech University

General Engineering Management (GEM III)
1:15 PM - 2:15 PM            Casco Bay
Session Chair: Fernando Deschamps, PUCPR
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University

Emotional Intelligence
Brandon Holten, NV5 / ASHRAE / UNLV

A Model for the Exit Requirement for the Engineering Management Master's Degree at the University of Idaho
Larry Stauffer, University of Idaho

Lessons-Learned in the Teaching of Engineering Management in Brazil
Fernando Deschamps, Pontifical Catholic University of Parana

Leadership & Organizational Management (LOM III)
1:15 PM - 2:15 PM            Board Room 5 A/B/C
Session Chair: Aysen Taylor, Old Dominion University
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College

Understanding the Professional, Non-Academic Experience of Engineering Faculty
Trygve Dahle, Montana State University
William Schell, Montana State University
Bryce Hughes
Paul Kauffmann, East Carolina University

Managing Conflict Towards Improving Team Performance
Aysen Taylor, Old Dominion University
Sujatha Alla, Old Dominion University

Understanding How Soldier Load Effects Soldier Performance
Paul Evangelista, Department of Systems Engineering, USMA
Timothy Young
Matthew Park
Aaron Gilliam
Peter Jaros
A State-of-the-Art Review on Research about the Incorporation of Equipment Operating Conditions in Condition-Based-Maintenance
Edgar Alcántar, 1986
Diana Barraza-Barrera, Universidad Juárez del Estado de Durango
Alvaro Eduardo Cordero-Franco, UANL

A Review of Effective Maintenance Strategies and Management for Optimizing Equipment/System Availability and Reliability
Arnesh Telukdarie, University of Johannesburg
Leonard Ndlovu, UJ
Chuks Medoh, UJ

Critical Success Factors Contributing to a Successful Reliability Centered Maintenance
Arnesh Telukdarie, University of Johannesburg
Thakane Ramagaga, UJ

Strategic Planning (SP III)
1:15 PM - 2:15 PM
Kidd Island Bay
Session Chair: Neda Nazemi, University of Virginia
Track Chair: Edson Pinheiro de Lima, PUCPR

Decision Making and Expert Judgment Elicitation
Hanouf Alhumaidi, Kuwait University

Strategic Initiatives and Revenue Growth Plans- Future ASEM Directions
Paul Kaufmann, East Carolina University
Tricia Simo Kush
Patrick Kush, University of Minnesota (Crookston), Metropolitan State University
Neal Lewis, Fairfield University
David Wyrick, West Virginia University

Exploratory Water Governance Scenarios for Agricultural Water Demand Management in Arid and Semi-Arid Regions
Neda Nazemi, University of Virginia
Rider Foley, University of Virginia
Garrick Louis, UVA

Systems Engineering (SE II)
1:15 PM - 2:15 PM
North Cape Bay
Session Chair: Scott Layne, James Madison University
Track Chair: Javier Calvo-Amodio, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville

Life Cycle Assessment of Large Chiller Equipment Manufacturing
Hao Zhang, James Madison University
Hannah Delawter
Emillo Shiquion, James Madison University

Munition Demilitarization: Maintenance Program Improvement
Kenneth McDonald, Dept. Systems Engineering, USMA
Carissa Jenkins, DSE, USMA
Tanner Andrews, DSE, USMA
Lindsay Kiernan, DSE, USMA

A Sustainability Assessment Decision Making System Architecture for Cybermanufacturing Systems
Scott Layne, James Madison University
Emerging Area: Healthcare Systems (EA IV)  
2:30 PM - 3:30 PM Bay 1B

Session Chair: Heather Keathley, University of Central Florida
Track Chair: Bimal Nepal, Texas A&M University; Ed Pohl, University of Arkansas

Health 4.0 as a Catalyst to a Dysfunctional Service Delivery: The Case Study of Johannesburg Public Hospitals.  
Arnesh Telukdarie, University of Johannesburg  
Oliver Nwauka, UJ  
Johan Enslin, UJ

A Case Study for Sustaining a Standardized Healthcare Procedure  
Susan Ferreira, Mozhdeh Sadighi, The University of Texas at Arlington  
Melanie Sulistio, Deborah Farr, Daniel Bennett, Eleanor Phelps, Benjamin Weia, Eric Kuo, Gary Reed, The

Research Agenda in Developing Core Reference Ontology for Human-Intelligence/Machine-Intelligence Electronic Medical Records System  
Ziniya Zahedi, Old Dominion University  
T Steven Cotter, Old Dominion University

General Engineering Management (GEM IV)  
2:30 PM - 3:30 PM Casco Bay

Session Chair: Akin Olufowoshe, Chevron  
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University

Maybe Things Really are Different This Time  
Donald Kennedy, Freerange Buddy Publications, Dan Rogers, NAV Canada, Michael Huston, Mount Royal University

Girls to Engineers Network (GEN)  
Neslihan Alp, University of Tennessee at Chattanooga, Hana Karrar, University of Tennessee at Chattanooga  
Louie Elliott, University of Tennessee at Chattanooga, Raga Ahmed, University of Tennessee at Chattanooga  
Trevor Elliott, University of Tennessee at Chattanooga, Li Yang, University of Tennessee at Chattanooga  
Mbaki Onyango, University of Tennessee at Chattanooga

An Experimental Adaptive Teaching Practice  
Vahid H Khiabani, Middle Tennessee State University, Ahad Nasab, University of Tennessee, Chattanooga  
Vishwas Bedekar, Middle Tennessee State University

Leadership & Organizational Management (LOM IV)  
2:30 PM - 3:30 PM Board Room 5 A/B/C

Session Chair: Malaia Jacobsen, Oregon State University  
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College

Multiple Team Membership, Turnover, and On-Time Delivery: Evidence from Construction Services  
Hise Gibson, United States Military Academy

Influence of Reward Systems on Motivation  
Aysen Taylor, Old Dominion University  
Sujatha Alla, Old Dominion University

Exploring Team Temperament and Team Dynamics as Key Elements in Continuous Process Improvement Efforts  
Malaia Jacobsen, Oregon State University  
Javier Calvo-Amodio, Oregon State University  
Sage Kittelman, Oregon State University
Managing Disruption Risk During Equipment Upgrade in Automated Distribution Facility using Drum-Buffer-Rope (DBR) Method
Ferdinand Prantl, Old Dominion University
Ariel Pinto, Old Dominion University / Emergent Risk Initiative
T Steven Cotter, Old Dominion University
Luna Magpili, Washington State University

Inland Waterway Disruption Response under Uncertain Conditions
Jingjing Tong, Southeast Missouri State University
Heather Nachtmann, University of Arkansas

Total Quality Management & Apple success
Mostafa Fawzy, Northern Illinois University
Eric Olson
Strategic Planning (SP IV)
2:30 PM - 3:30 PM            Kidd Island Bay
Session Chair: Sadegh Eghdami, University of Virginia
Track Chair: Edson Pinheiro de Lima, PUCPR

A Systems Framework to Integrate a Civilian Reserve Cyber Force for the US Army
Ernest Wong, Army Cyber Institute
Andrzej Tomczyk, United States Military Academy
Melissa Ziegler, United States Military Academy
Brandon Cromwell, United States Military Academy
James Comstock, Dept of Systems Engineering, US Military Academy
Steven Song, USMA

A Systems Approach to the U.S. Army's Human Dimension Strategy
Steven Song, USMA

Modeling a Water Market and Food Free-Trade as Instruments for Governance of Agricultural Water Demand in Arid and Semi-Arid Regions
Neda Nazemi, University of Virginia
Sadegh Eghdami, University of Virginia
Rider Foley, University of Virginia
Garrick Louis, UVA

Systems Engineering (SE III)
2:30 PM - 3:30 PM           North Cape Bay
Session Chair: Eric Specking, University of Arkansas
Track Chair: Javier Calvo-Amadio, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville

Identifying the Elements of Real System Age
James Enos, United States Military Academy
Roshanak Nilchiani, School of Systems and Enterprises

Taxonomic Structure(s) and its Validation for a Formal Foundational Ontology: Understanding Human Intelligence-Machine Intelligence Decision Governance
Faisal Mahmud, Old Dominion University
T Steven Cotter, Old Dominion University

A Foundation for System Set-Based Design Trade-off Analytics
Eric Specking, University of Arkansas
Gregory Parnell, University of Arkansas
Ed Pohl, University Of Arkansas
Randy Buchanan, Army Engineering Research and Development Center
Schedule of Events – Friday, October 19

Note: Technical Sessions begin at 8:15, please see Schedule at a Glance and the pages following for details

Friday Registration
7:00 AM - 4:30 PM West Lobby

Breakfast
7:00 AM - 8:00 AM Bay 2/3

Meeting: Fellows Breakfast
7:00 AM - 8:00 AM Casco Bay

Student Competition: Student Analysis
7:00 AM - 12:30 PM Shore
Student Competition Competitors Beauty Bay (alt)

Panel: ASEM's International Activities
8:15 AM - 9:15 AM Kidd Island Bay
Panel Moderator: Yesim Sireli, UNC Charlotte
Panelist: Fernando Deschamps, PUCPR; Geert Letens, Royal Military Academy; Arnesh Telukdarie, University of Johannesburg
Panel discussion on ASEM's International Activities

Friday Keynote
9:30 AM - 10:30 AM Bay 2/3

Panel: Women in Engineering Management
10:45 AM - 11:45 AM Kidd Island Bay
Panel Moderator: Heather Nachtmann, University of Arkansas
This panel of women leaders in engineering management will share their professional stories and career pathways into the discipline. Panelists will discuss the role mentoring has played in their careers, their approaches to balancing work and their personal lives, the skills they use most often in their careers as an engineering managers, and career advice for engineering management professionals and students. This event will be moderated and will include an opportunity for Q&A at the end.

Friday Lunch
12:00 PM - 1:00 PM Bay 2/3
Keynote Speaker Michael Schleich

Panel: Assessing Graduate Programs in EM
1:45 PM - 3:30 PM Kidd Island Bay
Panel Moderators: John Farr, United States Military Academy at West Point
Panelist: Tim Kotnour, University of Central Florida, Alice Squires, WSU Engineering and Technology Management, Mario Beruvides, Texas Tech University
For many universities, off campus master’s programs in Engineering Management (EM) produce significant revenue and are often the sole reason an EM program exists. Whether cohort based, short course, online, traditional model delivered on a customer site, or a combination of the aforementioned, delivery modes must be flexible and meet the customers’ demands. Unlike traditional on campus programs, the stakeholders are more demanding by placing a premium on quality, relevance, flexibility, and service. These programs differ in that target marketing, customer satisfaction and demands, payment options, and technology requirements are often different than the traditional graduate programs. Also, the assessment framework is more driven by customer satisfaction than learning outcomes and objectives. This roundtable will first bring leaders from several successful programs to present the challenges of starting, building, and maintaining an off-campus program to include content, marketing, accreditation, faculty/admnistration perception, and processes. Issues such as assessment, sustainability, technology, and faculty will be addressed. Lastly, we will discuss the future as we move to more online programs, targeted training, and nontraditional PhD programs.
Emerging Area: Construction Management (EA V)
8:15 AM - 9:15 AM            Bay 1B
Session Chair: Essam Zaneldin, United Arab Emirates University
Track Chair: Cynthia Wilson Orndoff,

Creating an Integrated Curriculum to Teach Project Management in Construction
Daphene Koch, Purdue University
Nicolas Dib, Purdue University

Awareness of Trenchless Technologies in the UAE
Essam Zaneldin, United Arab Emirates University
Sangarappillai Sivaloganathan, United Arab Emirates University

General Engineering Management (GEM V)
8:15 AM - 9:15 AM            Casco Bay
Session Chair: Elizabeth Schott, Florida SouthWestern State College
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University

Paul Kauffmann, East Carolina University
James Schreiner, US Military Academy
Teresa Jurgens-Kowal, Global NP Solutions
Tricia Simo Kush
William Sabados, UAH
Javed Cheema, Neapco Drivelines

Implementing a Fully Online Engineering Management BSE Degree Program
Daniel McCarville, Arizona State University
Esma Gel, Arizona State University
Linda Chatin, Arizona State University
Dan Shunk, Arizona State University
Susan Borgers, Arizona State University

Engineering an Alliance Between WMU and FSW
Cynthia Wilson Orndoff
Larry Mallak, Western Michigan University
Elizabeth Schott, Florida SouthWestern State College
David Lyth, Western Michigan University

Leadership & Organizational Management (LOM V)
8:15 AM - 9:15 AM            Board Room 5 A/B/C
Session Chair: Rita Stafford, Pace University - Lubin School of Business
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College

Exploring Why Women Enter, Leave, Return to, or Stay in Engineering and Engineering Leadership Roles
Alice Squires, WSU Engineering and Technology Management
Federica Robinson-Bryant, Embry-Riddle Aeronautical University- Worldwide

Understanding Engineering Identity in Undergraduate Students
Bryce Hughes
William Schell, Montana State University
Brett Tallman, Montana State University

Surviving and Thriving: Measuring Organizational Resilience as Strategic Capability
Rita Stafford, Pace University - Lubin School of Business
Operations & Supply Chain Management (OSCM V)  
8:15 AM - 9:15 AM  
Bay 1A

Session Chair: Wolday Abrha, University of Tennessee at Chattanooga  
Track Chair: Paul Evangelista, Department of Systems Engineering, USMA; Ivan Guardiola, Fort Lewis College;  
Caroline Krejci, The University of Texas at Arlington

Roadmap for an Integrated Lean Six Sigma Model  
Vanessa Burneo, Universidad Nacional de Loja  
Carmen Temblador-Perez, Tecnológico de Monterrey

Application of Lean to Reduce Inter-Plant Logistics: the Marine Industry Perspective  
Wolday Abrha, University of Tennessee at Chattanooga  
Rupy Sawhney  
Enrique Macias de Anda

Reducing Steering Gear Handling Damages – the Six Sigma Way  
Wolday Abrha, University of Tennessee at Chattanooga  
Neslihan Alp, University of Tennessee at Chattanooga  
Tewodros Teklu

Systems Engineering (SE IV)  
8:15 AM - 9:15 AM  
North Cape Bay

Session Chair: Armando Elizondo-Noriega, Texas Tech University  
Track Chair: Javier Calvo-Amodio, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville

An Attribute Agreement Analysis Method for HFACS Inter-rater Reliability Assessment  
T Steven Cotter, Old Dominion University  
Veysel Yesilbas, Old Dominion University

Ockham’s (Oecam) Razor and Pareto Principle (80/20 rule): The practice of seeking simplicity in risk decisions under uncertainty  
Thomas Monroe, National Defense University  
Mario Beruvides, Texas Tech University

The State of the Art in System Dynamics Modeling of Cost of Quality  
Armando Elizondo-Noriega, Texas Tech University  
David GÜEMES-CASTORENA, Tecnológico de Monterrey  
Victor Gustavo Tercero Gomez, UANL  
Mario Beruvides, Texas Tech University

Emerging Area: Critical Infrastructures (EA VI)  
10:45 AM - 11:45 AM  
Bay 1B

Session Chair: Rita Stafford, Pace University - Lubin School of Business  
Track Chair: Luna Magpili, Washington State University

Smart Home Requirements: Implementations and Availability  
Bongiwe Mkhize, UJ  
Arnesh Telukdarie, University of Johannesburg

Data Warehousing and Business Intelligence with Big Data  
Nayem Rahman, Portland State University

Designing Systems for Cyber Resilience  
Rita Stafford, Pace University - Lubin School of Business  
Christina Bouwens, University of Central Florida

General Engineering Management (GEM VI)  
10:45 AM - 11:45 AM  
Casco Bay

Session Chair: Jena Asgarpoor, University of Nebraska, Lincoln  
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University

Online Engineering Management Education Feedback  
David Paulus, Washington State University

Assessing Graduate Programs in Engineering Management  
John Farr, US Military Academy at West Point  
Tim Kotnour, University of Central Florida  
Catherine Vergopia, University of Central Florida

A Graduate Online Course in Engineering Leadership  
Jena Asgarpoor, University of Nebraska, Lincoln
Leadership & Organizational Management (LOM VI)
10:45 AM - 11:45 AM           Board Room 5 A/B/C
Session Chair: Lizzette Perez Lespier, University of North Carolina Wilmington
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College

Motivation to Lead and Asian American Engineering Managers
Thomas Ulrich, Tandem Diabetes Care

Applying Mindsets in Leading Innovation Teams
Teresa Jurgens-Kowal, Global NP Solutions

A Circular Business Model (CBM) Approach for Sustainability in the Fashion Supply Chain
Lizzette Perez Lespier, University of North Carolina Wilmington
Saba Pourreza, University of North Carolina Wilmington

Operations & Supply Chain Management (OSCM VI)
10:45 AM - 11:45 AM            Bay 1A
Session Chair: Emily Wall, CAVS-Extension Mississippi State University
Track Chair: Paul Evangelista, Department of Systems Engineering, USMA; Ivan Guardiola, Fort Lewis College; Caroline Krejci, The University of Texas at Arlington

Design of a Visual Board for a Manufacturing Cell
Linda Erickson, Univ of Tennessee Chattanooga
Aldo McLean, University of Tennessee at Chattanooga
Wolday Abrha, University of Tennesse at Chattanooga

Design of the Manufacturability Assessment Knowledge-Based Evaluation Tool
Emily Wall, CAVS-Extension Mississippi State University
Sara Fuller, Center for Advanced Vehicular Systems Extension - Mississippi State University
T.C. Falls, Mississippi State University, Institute for Systems Engineering Research

Systems Engineering (SE V)
10:45 AM - 11:45 AM            North Cape Bay
Session Chair: Veronica Schrimpsher, UAH
Track Chair: Javier Calvo-Amodio, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville

Managing Team Progression with the Syntactic, Semantic, and Pragmatic Elements of the Communication System
Sage Kittelman, Oregon State University
Javier Calvo-Amadio, Oregon State University

Using System Dynamics to Understand Engineering Transfer Student Persistence
Natasha Smith, Virginia Tech

Information Loss in Organizational Communication Networks
Veronica Schrimpsher, UAH
Dale Thomas, The University of Alabama in Huntsville

Emerging Area: Energy Systems (EA VII)
1:15 PM - 2:15 PM           Bay 1B
Session Chair: Ona Egbue, University of South Carolina Upstate
Track Chair: Ona Egbue, University of South Carolina Upstate

An Analysis of Microgrid Design and Implementation
Micki Grover, Emerson Rosemount
Ona Egbue, University of South Carolina Upstate

An Overview of the Systems of Peer-to-Peer Blockchain Technology in the Energy Industry
Suzane Abou Chacra, UNC Charlotte
Yesim Sireli, UNC Charlotte
Umit Cali, UNC Charlotte

Determining Microgrid Energy Systems Dynamic Model Inputs using a SAM Analysis
Jacob Hale, Missouri University of Science and Technology
Suzanna Long, Missouri University of Science and Technology
General Engineering Management (GEM VII)  
1:15 PM - 2:15 PM  
Casco Bay  
Session Chair: Willard Price, University of the Pacific  
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University  
The Power of Quantitative Analysis for Engineering Managers  
Richard Grandrino, Drexel University  
Developing Student Learning Outcome Metrics For Makerspaces: A STEM Pilot Course  
Jaime Cantu, University of Texas at Arlington  
Martin Wallace, University of Texas Arlington  
Matrix Structures in the Academy  
Willard Price, University of the Pacific  
Leadership & Organizational Management (LOM VII)  
1:15 PM - 2:15 PM  
Board Room 5 A/B/C  
Session Chair: Bharani Nagarathnam, Texas A&M University  
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College  
Involving Frontline Workers In Innovation: A Case Study Compilation  
Katie Kelly, Montana State University  
Inclusion by Design: An Engineering Management Case for Inclusive, Equitable, and Just Product Realization Processes  
Woodrow Winchester, Robert Morris University  
A Review of Competency & Personality Assessments in U.S. Distributors  
Bharani Nagarathnam, Texas A&M University  
Jia Wang, Texas A&M University  
Frederick Barry Lawrence, Texas A&M University  
Operations & Supply Chain Management (OSCM VII)  
1:15 PM - 2:15 PM  
Bay 1A  
Session Chair: Chamila Dissanayake, Texas Tech University  
Track Chair: Paul Evangelista, Department of Systems Engineering, USMA; Ivan Guardiola, Fort Lewis College; Caroline Krejci, The University of Texas at Arlington  
Comparison of Direct Supply Chain Performance Ratings To SEM: A Case Study  
Chamila Dissanayake, Texas Tech University  
Jennifer Cross, Texas Tech University  
Decision Making Approach for Multi-Criteria Hazmat Routing on Rail  
Dincer Konur, Missouri University of Science and Technology  
Samuel Vanfossan, Missouri University of Science and Technology  
Systems Engineering (SE VI)  
1:15 PM - 2:15 PM  
North Cape Bay  
Session Chair: Saurav Kumar Dubey, South Dakota School of Mines and Technology  
Track Chair: Javier Calvo-Amodio, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville  
Study of Cost Overrun and Delays of DOD and NASA Acquisition Programs  
Nazareen Sikkandar Basha, Iowa State University  
Jekonia Kwasa, Missouri S&T  
Christina Bloebaum, Iowa State University  
Bridging the Gap Between Engineering and Business Education  
John Dillard, Naval Postgraduate School  
Roadway Cost Attribution from the Perspective of Systems Theory  
Saurav Kumar Dubey, South Dakota School of Mines and Technology
Emerging Area: Critical Infrastructures (EA VIII)
2:30 PM - 3:30 PM
Bay 1B
Session Chair: Valerie Michel, UVa
Track Chair: Luna Magpili, Washington State University

Enhancing Strategies To Improve The Purification Processes And Systems Of East Rand Water Care
Arnesh Telukdarie, University of Johannesburg
Crosby Bhembe, UJ
Chuks Medoh, UJ

Examining Infrastructure Dynamics in Built Environment Disaster Resiliency
Raymond Smith, East Carolina University
Henry Lester, University of South Alabama

Identifying Vulnerable Stakeholders from Dependent Relationships in California's Water System
Valerie Michel, UVa
Neda Nazemi, University of Virginia
Timothy Eddy, University of Virginia
Leadership & Organizational Management (LOM VIII)  
2:30 PM - 3:30 PM           Board Room 5 A/B/C

Session Chair: Atul Kalia, CERTUS Management Consultants LLC  
Track Chair: Larry Mallak, Western Michigan University; Elizabeth Schott, Florida SouthWestern State College

A Theory of Engineers’ Motivation to Influence  
Thomas Ulrich, Tandem Diabetes Care

Impact of Engineering Management Academy on Engineering Leaders’ Career Success  
Atul Kalia, CERTUS Management Consultants LLC

Management of Technology, Research and Development (MTRD II)  
2:30 PM - 3:30 PM    Casco Bay

Session Chair: David Lyth, Western Michigan University  
Track Chair: Elizabeth Gibson, University of Colorado, Boulder

Assessing Scoring Differences between Award Winners and Non Award Winners for the Malcolm Balrige National Quality Award  
Anyama Tettey, UAH  
Sampson Gholston, The University of Alabama in Huntsville  
Bryan Mesmer, University of Alabama in Huntsville

A Tale of Two Ethnographic Cases  
Larry Mallak, Western Michigan University

PMO Implementation for Project Management in a Collaborative Research Context  
Simon Philbin, London South Bank University

Operations & Supply Chain Management (OSCM VIII)  
2:30 PM - 3:30 PM    Bay 1A

Session Chair: Ben Baliga, St. Cloud State University  
Track Chair: Paul Evangelista, Department of Systems Engineering, USMA; Ivan Guardiola, Fort Lewis College; Caroline Krejci, The University of Texas at Arlington

Application of Lean Six Sigma to Reducing Repeated Handling of Material at the Tobyhanna Army Depot  
John Richards, USMA Department of Civil Engineering  
Allan Baily, United States Military Academy  
Bradley Gibson, United States Military Academy  
John Mark Macfarlane, United States Military Academy  
Cory Hazelbaker, United States Military Academy  
Brian Rawhouser, Tobyhanna Army Depot  
Iris Lyle, Tobyhanna Army Depot

Setup Time Reduction Using Lean Six Sigma Approach  
Ben Baliga, St. Cloud State University  
Eric Lim, St. Cloud State University  
Hiral Shah, St. Cloud State University  
Systems Engineering (SE VII)  
2:30 PM - 3:30 PM    North Cape Bay

Session Chair: Jekonia Kwasa, Missouri S&T  
Track Chair: Javier Calvo-Amodio, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville

Modeling and Understanding Energy Sharing Communities: A System of Systems Approach  
Julia Morgan, Missouri University of Science and Technology  
Ruwen Qin, Missouri University of Science and Technology

A Proposed Integrated Framework for Transdisciplinary Team Research: A Systemic Approach  
Siqi Wang, Oregon State University  
Javier Calvo-Amodio, Oregon State University

Culture in Value Based Systems Engineering  
Jekonia Kwasa, Missouri S&T  
Christina Bloebaum, Iowa State University
Emerging Area: Healthcare Systems (EA IX)
8:15 AM - 9:15 AM             Bay 1B
Session Chair: Ziniya Zahedi, Old Dominion University
Track Chair: Bimal Nepal, Texas A&M University; Ed Pohl, University Of Arkansas

Improving Early Detection and Treatment of Sepsis
Julie Drzymalski, Drexel University

Niamat Ullah Ibne Hossain, Mississippi State University
Raed Jaradat, Mississippi State University

Success Factors for Implementing Quality Management Systems in Healthcare Organizations
Heather Keathley, University of Central Florida

Financial Resource Planning (FRP I)
8:15 AM - 9:15 AM             Bay 1A
Session Chair: David Enck, Texas Tech University Industrial and Systems Engineering Management
Track Chair: Ean Ng, Oregon State University

An Empirical Study on the Evaluation of Urban Infrastructure Investment Efficiency in China Based on DEA-Malmquist Model
Junna Meng, Tianjin University,China
Le Quan, Yongjie Pei
Ning He, Tianjin University
Yanbin Xu

Using Algorithmic Formula Questions to Practice Engineering Economic Analysis in a Course Learning Management System
Gillian Nicholls, Southeast Missouri State University
William Schell, Montana State University

Business Cycles: A Statistical Process Control Perspective
David Enck, Texas Tech University Industrial and Systems Engineering Management
Mario Beruvides, Texas Tech University
Victor Gustavo Tercero-Gomez
Alvaro Eduardo Cordero-Franco, UANL

General Engineering Management (GEM VIII)
8:15 AM - 9:15 AM             Kidd Island Bay
Session Chair: Hiral Shah, St. Cloud State University
Track Chair: S. Jimmy Gandhi, California State University, Northridge; Ganapathy Natarajan, Oregon State University

Prepare to be Certified: An Overview of the CAEM/CPEM Exam Prep Guide
Alice Squires, WSU Engineering and Technology Management
Paul Kauffmann, East Carolina University
Brandon Holten, NV5 / ASHRAE / UNLV

Advancing Engineering Management in the Undergraduate Classroom- EMBOK Teaching Materials
Paul Kauffmann, East Carolina University
Patrick Kush, University of Minnesota (Crookston), Metropolitan State University
Charles Daniels, ODU - EMSE
Jess Matias

Mapping of EMBOK Domains with EM Handbook
Hiral Shah, St. Cloud State University
Walter Nowocin, Medtronic Inc.
S. Jimmy Gandhi, California State University, Northridge
John Farr, US Military Academy at West Point
Management of Technology, Research and Development (MTRD III)  
8:15 AM - 9:15 AM  
Session Chair: Maoloud Dabab, Portland State University  
Track Chair: Elizabeth Gibson, University of Colorado, Boulder  

The Influence of Innovation on Micro, Small and Medium Sized Enterprises in Colombia  
Juan Gabriel Vanegas-Lopez, Tecnológico de Antioquia I.U.  
Jorge Aníbal Restrepo-Morales, Tecnológico de Antioquia Institución Universitaria  

Systems Design of Lower Limb Exoskeleton to Increase a Soldier’s Speed and Range of Motion  
Zachary Deutel, James Madison University  
Hao Zhang, James Madison University  

Benchmarking Cellular Technical Efficiency Using Data Envelopment Analysis  
Maoloud Dabab, Portland State University  
Timothy Anderson, Portland State University  

Program & Project Management (PPM I)  
8:15 AM - 9:15 AM  
Session Chair: Brent Robertson, Project Quality Consulting Corporation  
Track Chair: Donald Kennedy, Freerange Buddy Publications  

Integrating Sustainable Project Typology and Isomorphic Influences: An Integrated Literature Review  
Rakan Alyamani, Missouri University of Science and Technology  
Suzanna Long, Missouri University of Science and Technology  

A Case For Implementing The Process Approach In The Design Of Industrial Megaprojects  
Brent Robertson, Project Quality Consulting Corporation  
Mario Beruvides, Texas Tech University  

Stakeholder Management in Engineering Projects: Lessons Learned  
Valerie Denney, Embry-Riddle Aeronautical University  

Systems Engineering (SE VIII)  
8:15 AM - 9:15 AM  
Session Chair: Seth Taylor, Oregon State University  
Track Chair: Javier Calvo-Amodio, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville  

Systems Statistical Engineering - Systems Hierarchical Constraint Propagation  
T Steven Cotter, Old Dominion University  
Patricia Quigley  

A Recap of Cyber Physical Production Systems: Benefits, Barriers, and Sustainability  
Scott Layne, James Madison University  

A Proposed Methodology for Developing Systems Thinking Lessons For and By Non-Experts  
Seth Taylor, Oregon State University  
Javier Calvo-Amodio, Oregon State University  
Jay Well  

Emerging Area: Critical Infrastructures (EA X)  
9:30 AM - 10:30 AM  
Session Chair: Yue Gu, Purdue University  
Track Chair: Luna Magpili, Washington State University  

Data Analysis for Identifying High Chance Scenarios of Hazardous Material Highway Transportation Incidents  
Pranav Godse, Missouri University of Science and Technology  
Jian Xue, Harbin Institute of Technology  
Suzanna Long, Missouri University of Science and Technology  
Ruwen Qin, Missouri University of Science and Technology  

Saurav Kumar Dubey, South Dakota School of Mines and Technology  

Operational Goals and Metrics in Virginia Airport Sustainability Management Plans  
Yue Gu, Purdue University  
Mary Johnson, Purdue University
Financial Resource Planning (FRP II)
9:30 AM - 10:30 AM             Bay 1A
Session Chair: Megashnee Munsamy, MUT
Track Chair: Ean Ng, Oregon State University

An Analytical Exploration of the Theorized Relationship between Total Productivity Management and Cash
Conversion Cycle
Naveen Tiruvengadam, Texas Tech University
Mario Beruvides, Texas Tech University

Study on Guangzhou city safety monitoring system of construction cranes and its economic effect
Huang Yuesheng

Cost Optimization Decision-Support Based On Fuzzy Logic Applications
Chuks Medoh, UJ
Arnesh Telukdarie, University of Johannesburg

Management of Technology, Research and Development (MTRD IV)
9:30 AM - 10:30 AM             Casco Bay
Session Chair: Sangarappillai Sivaloganathan, United Arab Emirates University
Track Chair: Elizabeth Gibson, University of Colorado, Boulder

Findings from the 2017 NSF Workshop on Advanced Manufacturing Research for Aerospace
Paul Componation, University of Texas Arlington
Billy Gray, Tarleton State University
John Priest, University of Texas at Arlington
Robert Taylor, University of Texas at Arlington
Eileen Clements, University of Texas at Arlington Research institute

A Systematic Review of University Tech Commercialization Research
Clovia Hamilton, Winthrop University

Integrating Ethnographic Practice with the “Voice of the Customer” Process for Product Design Insights
David Lyth, Western Michigan University
Larry Mallak, Western Michigan University
Jason Minor, Western Michigan University

Program & Project Management (PPM II)
9:30 AM - 10:30 AM             Board Room 5 A/B/C
Session Chair: Arinao Nenzhelele, University of Johannesburg
Track Chair: Donald Kennedy, Freerange Buddy Publications

Multi-projects Synergy Analysis of the Process of New Urbanization in China
Lianying Zhang, College of Management and Economics, Tianjin University
Nan Zhou
Anmin Wang, Tianjin university

Community Design Studio
Neslihan Alp, University of Tennessee at Chattanooga, Raghsa Mohamed, University of Tennessee at Chattanooga
Hana Karrar, University of Tennessee at Chattanooga, Sarah Hathcock, University of Tennessee at Chattanooga
Dana Moody, University of Tennessee at Chattanooga, Alexandra Hunt, University of Tennessee at Chattanooga

Factors that Affect Project Benefits Realization In The Freight Rail Industries
Patience Nenzhelele, UJ
Arnesh Telukdarie, University of Johannesburg
Strategic Planning (SP IV)
9:30 AM - 10:30 AM          Kidd Island Bay
Session Chair: Jing Cao, Central South University;
Track Chair: Edson Pinheiro de Lima, PUCPR
Advancing Cybersecurity from Medieval Castles to Strategic Deterrence: A Systems Approach to Cybersecurity
Ernest Wong, Army Cyber Institute
James Doukas, United States Military Academy
John Schannep, United States Military Academy
Steven Song, USMA
James Comstock, Dept of Systems Engineering, US Military Academy
The Relationship Between a Technology’s Diffusion Rate (Time) and its Economical Impact (Money)
Albert Parvin, Texas Tech University and Southwest Research Institute
Mario Beruvides, Texas Tech University
The Impact Analysis on Group Consensus for Emergency Decision-making of Large-scale Projects: An Extreme Risk Preference Perspective
Jing Cao, Central South University
XU Xuanhua, Central South University
Fei Dai, West Virginia University
Bingsheng Liu
Systems Engineering (SE IX)
9:30 AM - 10:30 AM          North Cape Bay
Session Chair: Misagh Faezipour, Middle Tennessee State University
Track Chair: Javier Calvo-Amo, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville
A Proposed Taxonomy for the Systems Statistical Engineering Body of Knowledge
T Steven Cotter, Old Dominion University
A System Dynamics Modeling for Assistive Technology Methods
Misagh Faezipour, Middle Tennessee State University
Financial Resource Planning (FRP III)
10:45 AM - 11:45 AM          Bay 1A
Session Chair: Gillian Nicholls, Southeast Missouri State University
Track Chair: Ean Ng, Oregon State University
Covering Depreciation and Taxes in Engineering Economy Classes
Ted Eschenbach, TGE Consulting
Neal Lewis, Fairfield University
Jerome Lavelle, North Carolina State University
Student Loans – A Case Study for Informed Educational Investment
Gillian Nicholls, Southeast Missouri State University
Neal Lewis, Fairfield University
Management of Technology, Research and Development (MTRD V)
10:45 AM - 11:45 AM          Casco Bay
Session Chair: Leili Soltanisheh, Old Dominion University
Track Chair: Elizabeth Gibson, University of Colorado, Boulder
Revisiting Demolition Waste Management
Sangarappillai Sivaloganathan, United Arab Emirates University
Essam Zaneldin, United Arab Emirates University
Firm trends in markets and their consequences; mapping evolution of firm behavior using the deep and surface structures of the market
Thomas Koplyay, Universite du Quebec en Gatineau
Hamed Motaghi, University of Quebec
Hilda Hurta, National University of Public Service
Mario Malouin, University of Quebec in Outaouais
A "Sterilizing Food Menus and Frequent Used Documents" System
Mona Alfarra, Washington state university
Marketing and Sales Management in Engineering Organizations (MSM I)
10:45 AM - 11:45 AM
Kidd Island Bay
Session Chair: Alireza Namdari, Western New England University
Track Chair: Bharani Nagarathnam, Texas A&M University

Marketing: A role for engineers
Willy Van Overschée, KVAB (www.kvab.be), ASEM Europe
Geert Letens, Royal Military Academy

Bimal Nepal, Texas A&M University
Michael Robert, Texas A&M University

Predictive Power of GARCH Model against VMA and FMA Trading Rules: The Case of DJIA and DAX
Alireza Namdari, Western New England University
Tariq Durrani, University of Strathclyde

Program & Project Management (PPM III)
10:45 AM - 11:45 AM
Board Room 5 A/B/C
Session Chair: Alan Shisan, UJ
Track Chair: Donald Kennedy, Freerange Buddy Publications

Application of Process Mining in Project Management Context: an Exploratory Case Study in Software Development Projects
Marco Antonio Archanjo, PUCPR
Fernando Deschamps, Pontifical Catholic University of Parana
Rafael Kluska, PUCPR
Eduardo Santos, Pontifical Catholic University of Parana

Investigating The Factors, Risk And Challenges Impacting Cloud Computing Services Adoption Rate Across All The Sectors
Arnesh Telukdarie, University of Johannesburg
Alan Shisan, UJ

Special Topics (ST I)
10:45 AM - 11:45 AM
Bay 1B
Session Chair: Akin Oluwosoho, Chevron
Track Chair: Elizabeth Schott, Florida SouthWestern State College

Understanding the Differences: Comparing ASEM Project Management with Other Project Management Infrastructures
Valerie Denney, Embry-Riddle Aeronautical University

Commodities and Trade Policies – Challenges and Opportunites for Engineering Management
Akin Oluwosoho, Chevron

Systems Engineering (SE X)
10:45 AM - 11:45 AM
North Cape Bay
Session Chair: Valerie Michel, UVa
Track Chair: Javier Calvo-Amidi, Oregon State University; Jekonia Kwasa, Missouri S&T; Bryan Mesmer, University of Alabama in Huntsville

A Synthesis of Definitions for Systems Engineering
Niamat Ullah Ibne Hossain, Mississippi State University
Raed Jaradat, Mississippi State University

A Methodology for Comparing Risk Behaviors in the Virtual and Natural Worlds
Justin Yandell, Texas Tech University
Mario Beruvides, Texas Tech University

A Risk Analysis of Oil and Natural Gas Drilling in the Chesapeake Bay
Valerie Michel, UVa