



# IEEE MetroCon 2016 Conference Program

## Discovery through Engineering

October 26, 2016, 7:00am to 7:00pm  
Arlington Convention Center, Arlington, TX

NOTE: Registration Desk opens at 7:00am. ACC Opens for exhibits load-in and setup at 6:00am.

Time	Gallery in Front of Salon A/B	Room M9/M10	Room M8	Room M5/M6	Room M1/M2	Room M3/M4	Room M7	Room M11/M12	Salon B
	<b>Student Posters</b> Chair: Jamila Hunt Co-Chair: TBD	<b>Emerging Technologies</b> Track Chair: Brittany Bailey Co-Chair: Brent Rager	<b>Software and Systems Engineering</b> Track Chair: Steve Carr Co-Chair: Pascale Rondot	<b>Developing and Deploying Secure Systems</b> Track Chair: Phillip Todd Co-Chair: Princy Mehta	<b>Power and Energy</b> Track Chair: Power Zhao Co-Chair: Michael Stephens	<b>Computational Intelligence</b> Track Chair: Oscar Garcia Co-Chair: Ed Safford	<b>Biotechnologies</b> Track Chair: Dan Dimitrijevic Co-Chair: Iok-Hou Pang Co-Chair: Karol Grycznski	<b>Financial &amp; Professional Dev.</b> Chair: Tyler Davis Co-Chair: Timothy Watts	<b>Exhibits Schedule</b> Chair: Tonasha Smith Co-Chair: TBD
7:30	Put up Posters	<b>Welcome Address</b> Diane Collier, IEEE MetroCon 2016 General Chair							
7:45 - 8:25		<b>Plenary Address -- SALON A:</b> <i>Wireless Ultrasonic Leak Detection for International Space Station</i> Ali Abedi, Professor & Director, Center for Undergraduate Research, University of Maine, Orono							Set up start at 6am
8:30 - 9:25	Put up Posters	<b>A Mobile Application Design That Eliminates Government Data At Rest</b> Paul Nelson CTO, Thursby Software	<b>Mutation Testing: Biggest Benefit to Software Test in 40 years</b> John H. Robb University of Texas at Arlington (UTA)	<b>Internet of Things - Tackling the Toughest Design Challenges</b> Rich Markley Rohde & Schwarz	<b>Power System Physical &amp; Cyber Security</b> Colin Gordon Lead Application Engineer Schweitzer Engineering Laboratory (SEL)	<b>Panel: "What is Computational Intelligence compared to AI"</b> Oscar Garcia, Ed Safford, Dave Copps, Mike Cox, et al.	<b>Neuroprotection: A Challenging Frontier of Biotechnology</b> Raghu Krishnamoorthy Assistant Professor, Department of Cell Biology and Genetics, and North Texas Eye Research Institute, UNT Health Science Center Ft Worth	<b>Unlocking Your Professional Network: The Secrets to a Successful Career</b> Tim Worboys Manager, Software Engineering, LinkedIn	
9:25 - 9:55	Students Present Posters during Break	<b>Break in Exhibits Area (Salon B)</b>							
10:00 - 10:55		<b>Low Power Wide Area Network (LPWAN) Technologies</b> Ed Hightower Ingenu, Inc.	<b>AeroVis Flight Visualization: Enabling the Engineer</b> Kyle Ringgenberg Research Engineer, Sr. Lockheed Martin	<b>Current Cyber Threat and Trends</b> Dallas FBI Office	<b>Integrating Big Data Sets and Deep Renewables in Power Systems</b> Le Xie Texas A&M University	<b>Intelligent Autonomy in Long-duration Persistent Activities</b> Michael T. Cox Professor Wright State University	<b>Biodegradable Elastomers for Tissue Repair and Replacement</b> Yi Hong Assistant Professor, Department of Bioengineering UT Arlington	<b>ETF Education</b> Matt Digges Pacer Financial	Exhibits Program
11:00 - 11:55	Poster Judging Students Present to Judges	<b>Opportunities for Vehicle-to-Vehicle secure communications using open standards messaging and in-production automotive infotainment platforms</b> Clayton Weimer AICAS Realtime	<b>Reference Security Architecture for private and Public Cloud</b> Micki Boland Global Security Architect, Check Point Software Technologies Ltd.	<b>Considerations for a Multi-Disciplinary Approach in the Engineering of Trustworthy Secure Systems</b> Dawn Beyer Fellow, Lockheed Martin	<b>Cloud Computing for Power System Applications</b> Xiaochuan Luo ISO-New England	<b>Perceptive Emotive Spoken-Dialogue Companion Robots</b> Rodney Nielsen Associate Professor University of North Texas	<b>Challenges and Opportunities in the Study of Age-Related Macular Degeneration - Development of a Novel Mouse Model</b> Hongli "Catherine" Wu Assistant Professor, Pharmaceutical Sciences, UNT System College of Pharmacy, UNTHSC	<b>Maximizing Retirement Planning through Life Insurance Retirement Plans to compliment your 401K</b> Kevin Cox, CLU Advanced Planning and Structuring Specialist Lincoln Financial Distributors	
12:00 - 1:15	Poster Awards	<b>Luncheon Program -- SALON A: Engineering Through Discovery</b> Keynote Address: Romelia H. Flores IBM Global Solution Center Student Poster Competition Awards -- Jamila Hunt, Joseph Johnson							Lunch Break with Conference
1:15 - 2:00		<b>Networking in Exhibits Area (Salon B)</b>							Exhibits Program Resumes
2:00 - 3:10	Students display/present winning posters	<b>Directional Vehicle to Vehicle Signaling with Intervening Vehicle Relay</b> John Lindsay Attorney, Lindsay Patent Law	<b>Data Analytics: A 10-Step Recipe for Quantitative Decision Support</b> Walter Storm LM Fellow, Lockheed Martin	<b>Tool Output Integration Framework (TOIF)</b> Trey Jones Lockheed Martin	<b>Data Analytics and Machine Learning Approaches for Utility Companies</b> Yannan Sun Senior Scientist, Electricity Infrastructure Group Pacific Northwest National Laboratory	<b>Evolution of Neural Networks</b> Risto Miikkulainen Professor, University of Texas at Austin Research Fellow, Sentient Technologies, Inc.	<b>The Lazy Man's Exercise: Intermittent Hypoxia and its Health Benefits</b> Robert Mallet Professor, Institute of Cardiovascular and Metabolic Disorders, UNTHSC Ft Worth and Adjunct Professor, Department of Biology, UNT	<b>The Secret to Proper Estate Planning</b> Gary Haynes The Wynne Law Firm	
3:10 - 3:40		<b>Break in Exhibits Area (Salon B)</b>							All exhibitors invited to Reception
3:45 - 4:40	Take down posters	<b>Spiral Modulation</b> David Shaw Co-Founder & CCO, Astrapi Corporation	<b>Structured Data Archiving and Retirement - Requirements, Benefits, and Solutions</b> Ali El Kortobi Director, Product Management, Hewlett-Packard	<b>Leveraging Splunk for Cyber Security</b> Rich Voninski Splunk, Inc.	<b>Energy Storage as a Smart Grid Strategy</b> William Muster Manager, R&D ONCOR	<b>Re-Inventing Unstructured Data Analysis by Using Machine Learning to Augment Human Intelligence</b> Dave Copps Founder and CEO Brainspace	<b>Application of Scaffolds for Tissue Regeneration</b> Ashwir M Nair Senior Lecturer, Faculty Advisor, Bioengineering Dept. UT Arlington	<b>I Need to Get a Job Now</b> Debbie Mrazek The Sales Company	Exhibits Tear Down begins right after break -- exhibitors invited to Reception
4:45 - 7:00		<b>Reception Program -- SALON A</b>							

IEEE MetroCon 2016 is Sponsored by the IEEE Fort Worth Section