

# IEEE MetroCon 2019 Conference Program

## 32<sup>nd</sup> Annual IEEE FW Conference

November 6, 2019, 7:00am to 7:00pm  
Hurst Conference Center, Hurst, TX

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

Time	Gallery in Front of Salon A/B	Meeting Room 1/2	Meeting Room 3/4	Meeting Room E/F	Room G/H	Meeting Room 5	Board Room (upstairs)	Meeting Room 6	Salon B
	<b>Student Posters</b> <i>Chair: Derrick Webster</i> <i>Co-Chair: TBD</i>	<b>Internet of Things</b> <i>Track Chair: Ed Hightower</i> <i>Co-Chair: Brent Rager</i>	<b>Software and Systems Engineering</b> <i>Track Chair: Michelle Maddox</i> <i>Co-Chair: Christopher Elliot, Juanita Winfrey</i>	<b>Developing and Deploying Secure Systems</b> <i>Track Chair: Phillip Todd</i> <i>Co-Chair: Princy Mehta</i>	<b>Power and Energy</b> <i>Track Chair: Uchenna Ndusorouwa</i> <i>Co Chair: Luci Hays</i>	<b>Computational &amp; Quantum Intelligence</b> <i>Track Chair: Ed Safford</i> <i>Co-Chair: Oscar Garcia</i>	<b>Biotechnologies</b> <i>Chair: Iok-Hou Pang</i> <i>Co-Chairs: Don Osbourne</i>	<b>Engineering and Financial Planning</b> <i>Chair: Tyler Davis</i> <i>Co-Chair: Miles Smith, Brandon Safford</i>	<b>Exhibits Schedule</b> <i>Chair: Jim Thompson</i> <i>Co-Chair:</i>
7:30	Put up Posters	Welcome Address Diane Collier, IEEE MetroCon 2019 General Chair							Set up start at 6am
7:45 - 8:25		Plenary Address -- SALON A: Gary Johnson, Aerospace safety Consultant, J&P Technologies <i>Lessons Learned on Human Spacecraft Design</i>							
8:30 -- 9:25	Put up Posters	<i>How to Reduce Risk and Accelerate Development of IoT Projects</i> Eric Lenington, CEO ObjectSpectrum, LLC	<i>Automatically finding bugs in a Commercial Cyber-Physical System Development Tool Chain with Siforge</i> Christoph Csallner Associate Professor, Dept. of Computer Science & Engineering UTA	<i>Entering the World of Cybersecurity- Basics of Cybersecurity Engineering</i> Margee Herring Lockheed Martin	<i>Managing Cybersecurity Risk</i> Joel Austin Senior VP and Chief Digital Officer Oncor Electric Delivery	<i>Challenges in Building a Quantum Internet</i> Ram Dantu Professor, Dept. of Computer Science & Engineering University of North Texas	<i>Optogenetic Restoration of Vision</i> Samarendra Mohanty President and Chief Scientific Officer Nanoscope Technologies, LLC	<i>Put Your Retirement Plan to Work</i> William Swoboda Edward Jones	Exhibits Program
9:25 -- 9:55	Students Present Posters during Break	Break in Exhibits Area (Salon B)							
10:00 -- 10:55		<i>Smart Cameras, Driver Monitoring Systems and more</i> Rajesh Narasimha, CEO/Co-Founder EdgeTensor Technologies, Inc.	<i>The Missing Link - Human Computer Interaction in Semi-Autonomous Systems</i> John Robb UTA	<i>Current Cyber Threat and Trends</i> FBI	<i>Electricity from Nuclear Fission</i> Dennis Carlsen Principal Engr, Luminant Comanche Peak Nuclear Power Plant	<i>Post-Quantum Cryptography: Recent Results and Trends</i> Kirill Morozov Associate Professor University of North Texas	<i>Multifractal-imaging and Spectroscopy: A multi-dimensional Optical Technology for Early Detection of Disease</i> Subrata Batabyal Assistant Director, Device Development Nanoscope Technologies, LLC	<i>Vanguard's Roadmap to Financial Security</i> Erin Diegel Certified Investment Management Analyst Vanguard	
11:00 -- 11:55	Poster Judging  Students Present to Judges	<i>Smart Healthcare - Demystified</i> Saraju Mohanty Professor, CSE Dept. UNT	<i>From Requirements Validation to Design Verification: How AI can enable safe Autonomous Systems</i> David Wolfe Software Engineering Manager QRA Corp.	<i>Getting Back to the Future! Performing Systems Engineering to Address Cyberspace Concerns!</i> Ben Calloni LM Fellow Lockheed Martin	<i>Enabling EV Fleet Customer Success -- Staying Ahead of Fleet Electrification Requirements</i> David Treichler Director, Strategy and Technology Oncor Electric Delivery	<i>FoldIt - a Crowdsourcing Computer Game for You to Contribute to Important Scientific Research</i> Seth Cooper Assistant Professor, Khoury College of Computer Sciences, Northeastern University	<i>Brain imaging and neuromodulation for treatment of neurodegenerative diseases</i> Sourajit Mustafi Senior Scientist Nanoscope Technologies, LLC	<i>Economic and Market Outlook</i> Christopher Beavers, CPFA, CRPC® Senior Vice President Wealth Management Advisor Merrill Lynch	
12:00 -- 1:15	Poster Awards	Luncheon Program -- SALON A: Keynote Address: Rod Pyle, Author, journalist, and Space Historian <i>From Apollo 11 to Space 2.0: A new Space Age</i>  Student Poster Competition Awards -- Derrick Webster							Lunch Break with Conference
1:15 -- 2:00		Networking in Exhibits Area (Salon B)							Exhibits Program Resumes  Exhibit Program ends All exhibitors invited to Reception
2:00 -- 3:10	Students display/present winning posters  Take down Posters	<i>How to Build Massively Distributed, Real-time Applications at the Edge Using Existing Embedded Processors</i> Bill Cockerill, AI SME SWIM.ai	<i>The Increasing Critical Nature of Software Tool Qualification in Regulatory Compliance</i> Jeff Gray, CEO CertTech LLC	<i>WarGames: Using Cyber Table Tops to drive Cyber Resiliency</i> Teresa Merklin Lockheed Martin	<i>Evolution of Frequency Control and Ancillary Services for Higher Levels of Inverter-Based Generation in ERCOT</i> Julia Matevosyan Lead Planning Engineer Electric Reliability Council of Texas (ERCOT)	<i>Predicting Peer Reviewed Journal Results Using AI</i> John Dagdelen Researcher Berkeley National Lab	<i>Progression of Intraocular Lens Technology and Ongoing Challenges</i> Kamal Das Senior Principal Scientist Alcon Vision, LLC	<i>Social Security and You</i> Christopher Beavers, CPFA, CRPC® Senior Vice President Wealth Management Advisor Merrill Lynch	
3:10 -- 3:40		Break in Exhibits Area (Salon B)							
3:45 -- 4:40		<i>Internet of Things -- Networking Challenges</i> Chitresh Yadev Global Head of Sales Engineering Versa Networks Inc.	<i>Agile Software Metrics and More!</i> Michelle Maddox Lockheed Martin	<i>Business Electronic Compromise</i> US Secret Service	<i>Presidential Executive Order Concerning HEMP Impact on Power Grids and a Summary of Ongoing Work</i> W. Mack Grady Professor, Electrical & Computer Engineering Baylor University	<i>Panel Session: Present State of AI and Quantum Intelligence</i> Moderator: Brandon Safford	<i>Spatially Targeted in-vivo Optical Manipulation and Gene Delivery in Retina Guided by Optical Coherence Tomography</i> Sang hoon Kim Project Engineer Nanoscope Technologies, LLC	<i>The Benefits of a Trusteed IRA</i> Christopher Beavers, CPFA, CRPC® Senior Vice President Wealth Management Advisor Merrill Lynch	Exhibits Tear Down begins right after break -- Exhibitors invited to Reception
4:45 - 7:00	Reception Program -- SALON A								

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