MetroCon — INNOVATING FOR SOCIETY

IEEE

Keynote Speaker, Jeff Babione, is Vice President and Deputy, F-35 Lightning II Program at Lockheed Martin Aeronautics Company. Mr. Babione supports all areas of the F-35 Lightning II fighter aircraft program to ensure successful completion of System Development and Demonstration, transition to production, flight testing, and global deployment and sustainment of the F-35 for 13 military services in nine partner countries. Prior to his current position, he served as Vice President and General Manager of the F-16/F-22 Integrated Fighter Group where he led all aspects of the development, manufacture, and sustainment of the F-16 Fighting Falcon and the F-22 Raptor.

Plenary Speaker, Efstathios E. (Stathis) Michaelides, is currently the Tex Moncrief Chair of Engineering at Texas Christian University. Prior to this he was chair of the Department of Mechanical Engineering at UT San Antonio where he also held the Robert F. McDermott Chair in Engineering and was Founder and Director of the NSF-supported Center on Simulation, Visualization, and Real-Time Computing (SiViRT). His many awards throughout his career include a Senior Fulbright Fellowship in 1997, the ASME Freeman Scholar award in 2002, outstanding researcher award at Tulane University in 2003, and two ASME distinguished service commendations in 2006 and 2007.

	Emerging Technologies	Software and Systems Engineering	Developing and Deploying Secure Systems	Power and Energy	Power Systems Engineering	Cutting Edge Technologies	Biotechnologies
7:30	Welcome Address, Tim O'Conner, IEEE MetroCon 2013 General Chair						
7:45 - 8:25	Plenary Address : **Current Practice and Future Directions of Geothermal Energy** - Efstathios E. (Stathis) Michaelides Tex Moncrief Chair of Engineering, Department of Engineering, Texas Christian University						
8:30 - 9:30	On-Phone Coding and Debugging Christoph Csallner UT Arlington	Engineering for Safety and Security Ben Calloni Lockheed Martin	SDLC Practices on Demand Perri Nejib & Dawn Beyer Lockheed Martin	How "Smart Grid" is Improving the Delivery of Electricity Bill Muston Oncor	Engineering Ethics David Howell Texas Board of Professional Engineers	Testing Complex Systems Gary Downs Lockheed Martin	Multiscale Robotics and Control Dan Popa UT Arlington
9:45 - 10:45	Thoughts on DARPA's Integrated Cyber Analysis System Oscar Garcia UNT	Practical Software and Systems Measurement Bill Golaz Lockheed Martin	Static Code Analysis: One Tool to Rule Them All... Not Quite Terrance Moore & Brittany Bailey Lockheed Martin	Improvement of Reliability and Efficiency in Modern Power Systems via Microgrid Babak Fahimi UT Dallas	Electrical Transient Analysis Program Victor Andrade ETAP - Gulf Coast Region	Finding, Fixing and Finishing Detection through Analysis of a Radio Network Pieter C. Seidel Rohde & Schwarz	Nerve Regeneration: From Spinal Cord Injury to Peripheral Neurointerfaces Mario Romero-Ortega UT Arlington
11:00 - 12:00	Routing for Time Sensitive Applications in V2V Networks Alfandika Nyandoro Abilene Christian University	Going Agile Ihssan Alkadi Southeastern Louisiana University	Cyber Situational Awareness through Topological Vulnerability Analysis Michele Boland Thunderbird Technology Group	Cyber Security in the Smart Grid Jonathan Shapiro UT Dallas	Waveform Analytics Applied to Power Distribution and Transmission to Improve Situational Awareness Carl Benner Texas A&M	Fuel Cell Technology Insertion On Commercial Aircraft Michel Loignon Parker Hannifin Corp.	Virtual Environments and Robotic Technologies for Evaluation of Motor Functions in Children with Autism Nicoleta Bugnariu UNTHSC
12:00 - 2:00	Luncheon Speaker: **Career Management and Sustainability** - Elizabeth Lions, Elizabeth Lions Consulting LLC Keynote Address: **Lockheed Martin – Innovating for the Future** - Jeff Babione, Vice President and Deputy General Manager, F35 Program Lockheed Martin Corporation						
2:00 - 3:15	The "Triple Threat" to Civil Infrastructures William Radasky Metatech Corp.	Successful Software Release Strategies John Robb Parker Hannifin Corp. The Value of Test and Evaluation Paul Garrison Lockheed Martin	Automating System Assurance: A Methodical Analysis Process from DODAF Models to Source Code Ben Calloni Lockheed Martin	Power Electronics for More Electric Aircraft Systems Kaushik Rajashekara UT Dallas	All about OSHA and OSHA Update Jack Rector OSHA Fort Worth	Industry Trends in Product-Line Engineering for Systems and Software Paul Clements BigLever Software	Development of a Few Products Based on Nanotechnology Nalin Kumar UHV Technologies
3:30 - 4:45	Protecting Renewable Energy Systems from HPE Jim Bandy Small Renewable Energy Systems	Applied Natural Language Processing Jason Baldridge UT Austin	Wireless Hacking Kent Woodruff Motorola Air Defense	Autonomous Microgrid Controls with Advanced Energy Storage Systems Teri Hall Lockheed Martin	Arc Flash Mitigation Techniques Anthony Parsons Schneider Electric Engineering Services	AP1000 Nuclear Energy Reactor Solution Andrew Drake Westinghouse	Nanophotonics and Plasmonics for Ultra-sensitive Detection & Biomedical Imaging Zygmunt Gryczynski TCU
5:00 - 7:00	Reception– Sponsored by Merrill Lynch and Mouser Electronics **5 Things Investors Need to Know** - Ron Steffey, Regional Vice President, INVESCO						

See http://www.metrocon.org for conference information and on-line registration.

Early Registration Deadline: September 22.

Refund Policy: Requests must be received in writing by September 22nd. A withdrawal fee of $50 will apply. Substitutions are permitted.

Late Registration starts September 23rd and will be available on-site beginning at 7:00 am on the day of the conference. For additional information and information on Group Discounts contact Tim O'Conner, timothyoconner@sbcglobal.net, work phone (817) 777-6167, cell phone (817) 223-5975. Seating for late registration may be limited.

Name: _____

Address: _____

_____

_____

Company/School: _____

Title: _____

Email: _____

Phone : _____

IEEE Member Number: _____

Mail Registration and Payment to:

MetroCon Registration
IEEE Fort Worth Section
P.O. Box 171671
Arlington, TX 76003-1671

Method of Payment:

☐ Check or Money Order Enclosed (make checks payable to **IEEE Fort Worth Section**)

☐ Visa ☐ MasterCard ☐ American Express

Credit Card #: _____

Expiration: _____/_____ Signature: _____

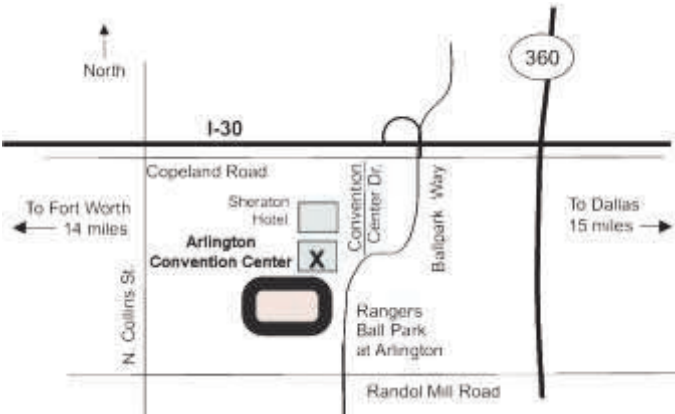| Fees:	Early	Late
Professional IEEE Member	☐ $300	☐ $350
Professional Non-Member	☐ $360	☐ $420
Students, Life Members, Retirees	☐ $100	☐ $120
Additional Banquet Ticket	☐ $50	☐ $50

MetroCon 2013 features seven tracks on the latest technology developments in the Dallas/Fort Worth Metroplex. This year's event features an exhibits program and a poster competition for area college students.

MetroCon takes place at the Arlington Convention Center located midway between Dallas and Fort Worth, immediately off of I-30 in front of Rangers Ball Park at Arlington. From both Dallas and Fort Worth, take the Ballpark Way exit. See map for further directions.

Patrons 2013:

LOCKHEED MARTIN

ONCOR.

MOUSER ELECTRONICS

NORTH TEXAS
UNT Department Of Electrical Engn.

THUNDERBIRD

Tektronix

pickering

Agilent Technologies

Merrill Lynch Wealth Management
Bank of America Corporation

ROHDE&SCHWARZ

UNIVERSITY OF TEXAS ARLINGTON | COLLEGE OF ENGINEERING

October 9, 2013
Arlington
Convention
Center

Presented by IEEE
Fort Worth Section

Conference Tracks:
Emerging Technologies • Software and Systems Engineering • Developing and Deploying Secure Systems
Power and Energy • Power Systems Engineering • Cutting Edge Technologies • Biotechnologies

MetroCon INNOVATING FOR SOCIETY

IEEE Fort Worth Section
P.O. Box 171671
Arlington, TX 76003-1671

IEEE