

**Connection One Semi-Annual Meeting
May 29th & 30th, 2008
Ohio State University, Columbus, Ohio**

Thursday May 29, 2008					
TIME	PRESENTATION	PAPER TITLE	PRESENTER	UNIVERSITY	AREA
7:15 AM	Continental Breakfast				
7:30 AM	Registration				
8:00 AM	Welcome: John Volakis				
8:15 AM	NSF: Craig Scott				
SESSION: Thursday 1 Continued Projects					
Chair: Bertan Bakkaloglu					
8:30 AM	Th 1.1	Wireless in-situ real-time chemical sensor for rinsing and drying process	Junseok Chae	ASU	MEMS & Sensors
8:45 AM	Th 1.2	Conformal Ultra wideband Arrays for 200-3000 MHz Operation	Chi-Chih Chen, Kubilay Sertel & John Volakis	OSU	Antennas, E & M
9:00 AM	Th 1.3	Photoluminescence Studies of Nitride Films for RF and Photonic Applications	Michael Shur	RPI	MEMS & Sensors
9:15 AM	Th 1.4	High Performance Hybrid Smart Antenna Array for 60GHz Wireless Applications	Magdy Iskander, Nuri Celik	UH	Antennas
9:30 AM	Poster Th P1				
10:00 AM	Guest Speaker Rudy Emrick from Motorola "RF and Nanotechnology"				
SESSION: Thursday 2 Continued Projects					
Chair: Mona Hella					
10:30 AM	Th 2.1	3D Printing on High Contrast Composites	D. Hansforf, J. Volakis	OSU	Materials & Devices
10:45 AM	Th 2.2	Modeling of High Power GaN-based FETs	M. Shur	RPI	High-Frequency circuits
11:00 AM	Th 2.3	Power-Efficient CMOS HD Radio	Brian Ma	UA	RF/Mixed-signals
11:15 AM	Th 2.4	Interference-aware Routing and Flow-based Reservation Mechanisms for Multi-Hop Cognitive Radio Networks	Marwan Krunz	UA	Systems
11:30 AM	Poster Th P2				
12:00 PM	LUNCH				
SESSION: Thursday 3 Continued Projects					
Chair: Nuri Celik					
1:30 PM	Th 3.1	RFID System for Cargo Container Item Tracking	W-F Tsai, W. Moulder, R. Burkholder & J. Volakis	OSU	RFID TIE Grant Completed Project
1:45 PM	Th 3.2	Terahertz Testing of Silicon VLSI	Dmitry Veksler, (B. Stillman, M.	RPI	High-Frequency circuits
2:00 PM	Th 3.3	Design of Low-Voltage Low-Power Reconfigurable Switched-Capacitor Power	B. Ma	UA	RF/Mixed-signals
2:15 PM	Th 3.4	A Combined Class-D / Class AB Audio Amplifier with Built-in DAC Channel	B. Bakkaloglu	ASU	RF/Mixed-signals
2:30 PM	Poster Th P3				
SESSION: Thursday 4 Continued/Completed/New Projects					
Chair: Brian Ma					
3:00 PM	Th 4.1	Digitally Calibrated, MASH Continuous-Time Sigma Delta ADC for Broadband Wireless Applications	B. Jalali-Farahani	ASU	Completed Project RF/Mixed-signals
3:15 PM	Th 4.2	Wideband Continuous Time Sigma-Delta ADC for WiMAX and related Applications	Hyung, Kiaei, Bakkaloglu	ASU	Completed Project
3:30 PM	Th 4.3	Switchable, Unbalanced Power Combining Networks for High Efficiency, Wide	M. Hella	RPI	RF/Mixed-signals
3:45 PM	Th 4.4	RF Planning Tools and Support for RF Spectrum Situational Awareness in Urban	Z. Yun, M. Iskander	UH	RF/Mixed-signals
4:00 PM	Th 4.5	Intelligent detection of buried IED using genetic programming	M. Iskander, H.S. Youn	UH	New
4:15 PM	Poster Th P4	Included All completed Projects from 2007			
5:20 PM	Shuttle Departure to COSI				

5:45 PM	Movie
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6:30 PM	Dinner
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Friday, May 30th					
7:15 AM	Continental Breakfast -				
SESSION: Friday 1 New Proposals					
Chair: R. Rojas					
8:15	Guest Speaker	University of New Mexico			
8:45 AM	Fri 1.1	New Frequency-Time Predistortion Linearization Paradigm for Software Defined Radio	P. Roblin	OSU	RF/Mixed-signals
9:00 AM	Fri 1.2	Multi-Mode CR $\Sigma\Delta$ With Time Frequency-Based Quantifier	H. Kim, B. Bakkaloglu, S.	ASU	RF/Mixed-signals
9:15 AM	Fri 1.3	All Silicon Based Passive Millimeter-Wave Camera for Security Screening and Inclement Weather Piloting	Si-Young Park, P. Berger	OSU	High-Frequency circuits
9:30 AM	Fri 1.4	Securing Spectrum Access in Cognitive Radio Networks	M. Krunz, L. Lazos	UA	Systems
9:45 AM	Poster Th P1				
SESSION: Friday 2 New Proposals					
Chair: Patrick Roblin					
10:15 AM	Fri 2.1	Fast and Efficient EM Simulations using Time and Frequency Domain	J. Lee	OSU	Antennas, E & M
10:30 AM	Fri 2.2	All Digital Phase Locked Loops (ADPLL) for Process Portability and Design Re-Use	S. Kiaei, B. Bakkaloglu	ASU	RF/Mixed-signals
11:00 AM	Fri 2.3	Human Motion Power Harvesting Device for Self-Powered Portable Applications	H. Xin	UA	Energy
11:15 AM	Fri. 2.4	Modeling, Design and Testing of Nonreciprocal Devices in the THz range	R. Rojas	OSU	RF/Mixed-signals
10:45 AM	Fri 2.5	Robust Design of Complex Multi-Band CMOS Radios up to 60 GHz	M. Ismail, R. Rojas	OSU	RF/Mixed-signals
11:30 AM	Fri 2.6	Extraction of Transceiver Performance Parameters through No-overhead Built-in-Self-Test	Sule	ASU	
11:45 AM	Poster Fri P1				
12:00 - 2:00PM	Lunch & Closed Door IAB Session				

