



Thursday Parallel Session #1

TUTORIAL SESSION - Thursday, April 7				Room: Belleair
8:00 AM	RA-1	High Efficiency Power Amplifiers	Steve Cripps	Hywave Associates
9:40 AM BREAK Sponsored by RF Micro Devices				
TUTORIAL SESSION - Thursday, April 7				Room: Belleair
10:00 AM	RA-1	High Efficiency Power Amplifiers	Steve Cripps	Hywave Associates
12:00 PM LUNCH Sponsored by Trak Microwave				
TUTORIAL SESSION - Thursday, April 7				Room: Belleair
1:00 PM	RA-2	Techniques for Analyzing Electrically Small Wireless Antenna Lattice Structures	Richard Remski	Ansoft
3:00 PM BREAK Sponsored by RF Micro Devices				
TUTORIAL SESSION - Thursday, April 7				Room: Belleair
3:20 PM	RA-3	Linearization: Reducing Distortion in Power Amplifiers	Allen Katz	Linearizer Technology
6-7 pm	Poster Session & Reception - Sponsored by Agilent Technologies			
7-9 pm	Dinner - Sponsored by Anritsu, Applied Wave Research and Mini-Circuits			



**IEEE****Wireless and Microwave Technology Conference 2005****Marriott Sand Key, Clearwater, FL April 7, 8 2005****Thursday Parallel Session #2**

Paper	ANTENNAS - Thursday, April 7		Chair: J. Culver, Co-Chair: B. King	Room: Redington
8:00 AM	RB-1	"Synthesis of Antenna Arrays Using Gradient Based Differential Evolution Algorithm in the Presence of Mutual Coupling" <i>Seyyed Razavi, Karim Aghdam, Mahmoud Kamarei</i>		
8:20 AM	RB-2	"Antenna Array Output Power Minimization Using Steepest Descent Adaptive Algorithm," <i>S. Johnson and D. Snider. University of South Florida.</i>		
8:40 AM	RB-3	"A Wideband Circularly Polarized Rectenna for Wireless Power Transmission to Embedded Sensors" <i>M. Ali, G. Yang, R. Dougal. University of South Carolina</i>		
9:00 AM	RB-4	"RF MEMS Phase Shifters and Their Application in Phased Array Antennas" <i>Maximilian Scardelletti, George Ponchak, Afroz Zaman, Richard Lee.</i>		
9:20 AM	RB-5	"Designing Ultra-thin Printed Dipole Arrays Based on EBG Reflection Phase Profile" <i>M.F. Abedin, M. Ali. University of South Carolina</i>		
9:40 AM	BREAK	Sponsored by RF Micro Devices		
Paper	COMMUNICATIONS I - Thursday, April 7		Chair: J. Lin	Room: Redington
10:00 AM	RC-1	"Multipath Fading in Airframes at 2.4 GHz" <i>C. Fitzhugh, J. Frolik, R. Ketcham. J. Covell, T. Meyer. University of Vermont</i>		
10:20 AM	RC-2	"Channel Equalization and ICI Mitigation for OFDM Systems in Time Selective Channels" <i>M. Chennaoui, M. Berbineau, A. Rivenq, J. Assaad. INRETS-LEOST</i>		
10:40 AM	RC-3	"Adaptive Low-rank MIMO-OFDM Channel Estimation", <i>M. Ozdemir. Syracuse University.</i>		
11:00 AM	RC-4	"A Low Power MIC S-Band Transceiver Architecture for Implantable Devices" <i>A. Tekin, M. Yuce, W. Liu - University of California-Santa Cruz</i>		
12:00 PM	LUNCH	Sponsored by Trak Microwave		
Paper	POWER AMPLIFIERS - Thursday, April 7		Chair: S. Wood, Co-Chair: J. Paviol	Room: Redington
1:00 PM	RD-1	"Current Techniques for Enhancing the Efficiency of Ultra Linear Power Amplifiers" <i>Richard Abrahams. Harris Corp.</i>		
1:20 PM	RD-2	"High Efficiency Class-F MMIC Power Amplifiers at Ku-Band," <i>Matthew Ozalas. The MITRE Corporation</i>		
1:40 PM	RD-3	"Nonlinearity Estimation and Spectral Regrowth Prediction of Power Amplifiers using Correlation Techniques" <i>M.Y. Li, I. Galton, L.E. Larson, P.M. Asbeck. University of California</i>		
2:00 PM	RD-4	"Design and Optimization of a 5 GHz CMOS Power Amplifier" <i>Yus Ko, William R. Eisenstadt, Jim Paviol. University of Florida</i>		
2:20 PM	RD-5	"Filter Considerations in Polar Transmitters for Multi-mode Wireless Applications" <i>Y. Huang, Y. Wang, T. Larsen. Aalborg University, Denmark & University of California</i>		
3:00 PM	BREAK	Sponsored by RF Micro Devices		
Paper	NEW TECHNOLOGIES - Thursday, April 7		Chair: R. Abraham	Room: Redington
3:20 PM	RE-1	"Ferroelectric Thin Films For RF Device Applications" <i>Stephen Gilbert. Agilent Technologies.</i>		
3:40 PM	RE-2	"Die-on-wafer and Wafer-level 3D Integration for Millimeter-Wave Smart Antenna Transceivers" <i>Mona Hella, J.Lu, S. Devarajan, K. Rose, R.J. Gutmann. Rensselaer Polytechnic Institute</i>		
4:00 PM	RE-3	Slow-Wave Phase Shifter Design and Applications, <i>Balaji Lakshminarayanan and Tom Weller, University of South Florida</i>		
4:20 PM	RE-4	"Wideband RF-MEMS Shunt Switches with High Reliability for Microwave and Millimeter Wave Applications" <i>Kazumasa Onodera, Yi Zhang, Ryutaro Maeda</i>		
6-7 pm	Poster Session & Reception - Sponsored by Agilent Technologies			
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Friday Parallel Session #1

Paper	PLENARY SESSION - Friday, April 8		Chair: R. Pengelly	Room: Sand Key
8:30 AM FA-1	Wireless Systems for Battlespace Dominance: Basic Research Challenges		John Kosinski	U.S. Army
9:20 AM FA-2	Recent Trends in Wireless Computer-Aided Design		Zoltan Cendes	Ansoft

10:10 AM **BREAK****Sponsored by Ansoft**

Paper	MODELING - Friday, April 8		Chair: V. Cojocaru, Co-Chair: T. Weller	Room: Redington
10:30 AM FB-1	"Prediction of Harmonic Tuning Performance in pHEMTs" <i>Ravi Varanasi, ¹Charles Baylis, ²William Clausen, ^{1,2}Dr. Larry Dunleavy - ¹University of South Florida, ²Modelithics Inc.</i>			
10:50 AM FB-2	"Non Linear Transient Simulation of Microwave Circuits and Systems" <i>Thomas J. Brazil - University College Dublin, Ireland</i>			
11:10 AM FB-3	"Fast Numerical Simulation of Inductors and Transformers for Use in a Circuit Design Environment" <i>Rex Lowther, Yiqun Lin - Conexant Corporation</i>			
11:30 AM FB-4	"Real-time Concurrent Design of Adaptive High-Frequency Circuits" <i>Michael C. Hemlich, Christos Komninakis, Joel Kirchman - Applied Wave Research Inc.</i>			
11:50 AM FB-5	"Modeling of On-Chip Interconnect Lines in RF Circuits Using 'Biointelligence'" <i>Rex Lowther, Yiqun Lin, Gregg Croft, Jim Furino, Zhenyu Teng - Conexant Corporation, Joseph Czagas, Robert Lomenick - Intersil Corporation</i>			

12:30 PM **LUNCH****Sponsored by M/A-Com**

Paper	INTEGRATED CIRCUITS - Friday, April 8		Chair: B. Kane, Co-Chair: G. Remoundos	Room: Redington
1:30 PM FC-1	"A Low-Power Tunable SiGe HBT LNA for Wireless LAN Applications" <i>Corrado Carta, Jong Carls, Werner Bachtold - Swiss Federal Institute of Technology</i>			
1:50 PM FC-2	"Broadband SiGe Monolithic Microwave Control Circuits" <i>R. Tayrani - Raytheon Space & Airborne Systems</i>			
2:10 PM FC-3	"A sub-1mA LC SiGe BiCMOS 1.6 GHz differential VCO with KV reduction" <i>David K. Homol</i>			
2:30 PM FC-4	"A Low-Power Dual-Band BiCMOS Front-End for Wireless LAN Receivers" <i>Corrado Carta, Rolf Vogt, Werner Bachtold - Swiss Federal Institute of Technology</i>			

2:50 PM **BREAK****Sponsored by Eagleware**

3:10 PM FC-5	"Performance of a 12GHz Monolithic Microwave Distributed Oscillator in 1.2V 0.18µm CMOS with a New Simple Design Technique for Frequency Changing" <i>Kaylan Bhattacharyya, Ted H. Szymanski - McMaster University, Canada</i>			
3:30 PM FC-6	"A Low Power CMOS Distributed Amplifier" <i>Hsiang-Lin Huang, Mei-Fen Chou, Wen-Shen Wuen, Kuei-Ann Wen, Chun-Yen Chang - National Chiao Tung University, Taiwan.</i>			
3:50 PM FC-7	"Comparison of Different CMOS Low-Noise Amplifier Topologies for Bluetooth Applications" <i>M. Zamina Khan, Yanjie Wang, R. Raut - Concordia University, Canada</i>			



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Friday Parallel Session #2

Paper		PLENARY SESSION - Friday, April 8	Chair: R. Pengelly	Room: Sand Key
8:30 AM	FA-1	Wireless Systems for Battlespace Dominance: Basic Research Challenges	John Kosinski	U.S. Army
9:20 AM	FA-2	Recent Trends in Wireless Computer-Aided Design	Zoltan Cendes	Ansoft

10:10 AM **BREAK** Sponsored by Ansoft

Paper		COMMUNICATIONS II - Friday, April 8	Chair: J. Frolik	Room: Belleair
10:30 AM	FD-1	"A New Approach to SDMA Using Spreading Sequences as Array Weights" <i>Frank Gross, FAMU-FSU College of Engineering, David Schmidt, Greenwich Technology Associates</i>		
10:50 AM	FD-2	"Comparision of Self-Adaptive Wireless Networks Using Mobile Base Stations and Mobile Access Points" <i>Jaeseok Kim, Jenshan Lin - University of Florida</i>		
11:10 AM	FD-3	"In situ Atmospheric Profiling Using Mobile Ad-hoc Sensor Networks" <i>Mark, Adams, John Manobianco, James Bickford, Donna Manobianco. ENSCO Inc.</i>		
11:30 AM	FD-4	"Performance of Multi-Path Routing in MANET with Long Tailed Traffic" <i>Zafar Q. Taha, Xian Lu</i>		

12:30 PM **LUNCH** Sponsored by M/A-Com

Paper		ULTRA WIDEBAND - Friday, April 8	Chair: B. Perlman	Room: Belleair
1:30 PM	FE-1	"A New CPW - Fed Slot Antenna for Ultra-Wide Band Application" <i>M. Ali, Y. Hu, A.T.M. Sayem, R. Usaha, University of South Carolina</i>		
1:50 PM	FE-2	"Low-Cost UWB Front-End System for Pulsed Radar Automotive Applications at 24GHz" <i>Vicentiu Cojocar, TDK Electronics Ireland</i>		
2:10 PM	FE-3	"A Discrete Fully Logical and Low Cost Sub-Nanosecond UWB Pulse Generator" <i>Jean Schwoerer, Benoit Miscopein, ²Bernard Uguen, ²Ghais El-Zein - France Telecom R&D Tech/One, ¹IETR-Insa</i>		
2:30 PM	FE-4	"High Performance Transmission Using Differential Multi-Pulse Modulation (DMPM) in Transmit-Reference Ultra-Wideband (TR-UWB) Communications" <i>Jakkrapong Sumethnapis, Kiyomichi Araki - Tokyo Institute of Technology</i>		

2:50 PM **BREAK** Sponsored by Eagleware

Sponsors: Agilent Technologies, Anritsu, Applied Wave Research, Ansoft, Eagleware, Harris, M/A-COM, Mini Circuits, RF Café, RF Micro Devices, Trak Microwave

Organizers: USF WAMI Center, Cree Microwave, US Army CERDEC/RDECOM, IEEE Student Branch (USF), IEEE MTT/AP/ED FWCS, USF EE Dept., USF College of Engineering

Exhibitors: Acqiris, Cree Microwave, Electrorent, Keithley, Leader Tech, Modelithics, Tektronix, TRS RenTelco

