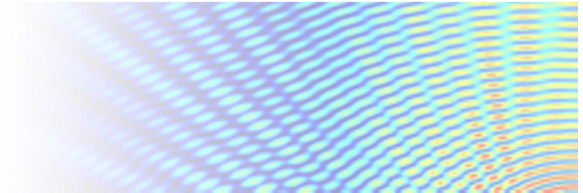


Technical Program

Day 1 - 11 February

Time

9:20 - 9:30	AMS 2016 Opening Address
Session 1	Passive Components
9:30 - 9:50	A Polyphase RC Filter Implemented in Ring Configuration for a SiGe Millimetre-wave Receiver <i>L. E. Milner, J. T. Harvey, L. T. Hall and M. E. Parker</i>
9:50 - 10:10	Folded Y-junction in Substrate-Integrated Waveguide Technology <i>C. Zhao, C. Fumeaux and C.-C. Lim</i>
10:10 - 10:30	A 70 GHz Chip to Printed Circuit Board Interconnect using Kapton Flexible Substrate <i>S. G. Mehta, L. E. Milner and M. E. Parker</i>
10:30 - 10:50	Characterisation of a Transformer Balun for a 7-15 GHz SiGe Frequency Doubler <i>S. Chakraborty, L. E. Milner, L. T. Hall, X. Zhu, O. Sevimli and M. Heimlich</i>
<i>Session Chairs</i>	<i>Dr. Leigh Milner and Dr. Withawat Withayachumnankul</i>
10:50 - 11:20	Coffee break
Session 2	Active Devices and Systems
11:20 - 11:40	Three-Stage Pulse-Measurement Technique for Characterization of Trapping in FETs <i>S. Ali Albahrani, A. Parker and M. Heimlich</i>
11:40 - 12:00	Experimental and Numerical Analysis of Nonlinear Left Handed Transmission Lines using Three Wave Mixing <i>S. Y. Elnaggar and G. N. Milford</i>
12:00 - 12:20	RF Phase Sensitive Amplifier <i>P. Davies, and J. Scott</i>
12:20 - 12:40	Multi-tone Excitation Analysis in RF Energy Harvesting Systems <i>N. Shariati, J. R. Scott, W. S. T. Rowe and K. Ghorbani</i>
<i>Session Chairs</i>	<i>Prof. James Scott and Dr. Greg Milford</i>
12:40 - 14:10	Lunch Break
Session 3	Antennas
14:10 - 14:30	Planar High-Gain Antennas for Direct Broadcast Satellite Reception <i>R. M. Hashmi, and K. P. Esselle</i>
14:30 - 14:50	Singly-fed Shaped Planar Inverted-F Antenna for Circular Polarization <i>F. Gozash, A. Boddupalli, S. S. H. Ling, and A. S. Mohan</i>
14:50 - 15:10	Optics Analysis of FAST with 19-element Multibeam Feed <i>S. Smith, A. Dunning, A. Hellicar, and M. Bowen</i>
15:10 - 15:30	Determining the Mainlobe Region of an Arbitrary Pattern for 2D Numerical Pattern Synthesis Application <i>S.-L. Chen, P.-Y. Qin, Y. J. Guo and Y. Liu</i>
<i>Session Chairs</i>	<i>Prof. Karu Esselle and Dr. Stephanie Smith</i>
15:30 - 16:00	Coffee break
Session 4	Microwave Sensors and Resonators
16:00 - 16:20	Microwave Microfluidic Sensor Based on Microstrip-Line-Coupled Complementary Resonator <i>A. Ebrahimi, W. Withayachumnankul, S. F. Al-Sarawi and D. Abbott</i>
16:20 - 16:40	Tunable Split Ring Resonators using Air Pressure <i>X. Tang, I. E. Khodasevych and W. S. T. Rowe</i>
16:40 - 17:00	Dielectric Properties of Aqueous Glucose Solutions Using Microwave Cavity and Coaxial Probe <i>H. Choi, S. Luzio and A. Porch</i>
17:00 - 17:20	Silicon Terahertz Resonators <i>W. Withayachumnankul, D. Headland, S. Sriramy, M. Bhaskarany and C. Fumeaux</i>
<i>Session Chair</i>	<i>Prof. Said Al-Sarawi</i>
18:30 - 22:00	Conference Dinner - Ayers House (288 North Terrace, Adelaide, SA) Drinks 18:30, dinner 19:00-22:00



Technical Program

Day 2 - 12 February

Time		
Session 5		EM Components
9:00 - 9:20		Investigations of Embroidered High Impedance Ground Plane in Structural Composite Materials <i>T. C. Baum, K. J. Nicholson, R. W. Ziolkowski and K. Ghorbani</i>
9:20 - 9:40		A Low Profile Flat Perforated Dielectric Beam Focusing Structure for Electromagnetic Bandgap Resonator Antennas <i>M. U. Afzal and K. P. Esselle</i>
9:40 - 10:00		Purely Polymeric Antennas with Exceptional Flexibility and High Efficiency <i>S. J. Chen, P. Talemi, B. Chivers, R. Shepherd and C. Fumeaux</i>
10:00 - 10:20		Microfluidic paper based Passive RF Sensor for Soil Salinity Measurement <i>E. Md Amin, R. Bhattacharyya, S. Sarma and N. C. Karmakar</i>
<i>Session Chair</i>		<i>Dr. Thomas Baum and Dr. Withawat Withayachumnankul</i>
10:20 - 10:50		Coffee break
Session 6		Tunable Devices
10:50 - 11:10		Millimeter Wave Tunable Power Divider Using Modified Wilkinson Design <i>E. Al Abbas and A. Abbosh</i>
11:10 - 11:30		A Biasing Technique for Varactor-Loaded Reconfigurable Antennas <i>N. Nguyen-Trong, L. Hall and C. Fumeaux</i>
11:30 - 11:50		Planar Reconfigurable Antenna for Underground Mine Communication <i>H. Kunsei, Md Shahidul Alam, K. Bialkowski and A. Abbosh</i>
<i>Session Chair</i>		<i>Prof. Amin Abbosh</i>
11:50 - 13:20		Lunch Break
Session 7		Propagation, RFID and Radar
13:20 - 13:40		Sequences For Imaging MIMO Radar <i>G. Rankin and A. Tirkel</i>
13:40 - 14:00		Channel Modeling of Reconfigurable Antennas for Underground Communications <i>H. Kunsei, K. Bialkowski and A. Abbosh</i>
14:00 - 14:20		Millimeter-wave measurements for 5G <i>S. Ahmed, R. Amirhanzadeh Antiohos and M. Faulkner</i>
14:20 - 14:40		High Quality MEMS Inductors for Chipless RFID in Harsh Environment <i>A. Mohammadi and N. C. Karmakar</i>
<i>Session Chair</i>		<i>Prof. Mike Faulkner</i>
14:40 - 15:10		Coffee break
Session 8		Amplifiers and Oscillators
15:10 - 15:30		Progress in SIW Distributed Amplifiers <i>K. W. Eccleston</i>
15:30 - 15:50		Radio Frequency Synthesis for Ultrastable X-Band Oscillators <i>W. A. Al-Ashwal and J. G. Hartnett</i>
15:50 - 16:10		E and W Band Transformer Coupled SiGe Amplifiers <i>L. E. Milner, M. C. Rodriguez, S. J. Mahon, L. T. Hall and M. E. Parker</i>
<i>Session Chair</i>		<i>Dr. Leigh Milner and Prof. Christophe Fumeaux</i>
16:10 - 16:30		Student Prize
16:30		Close of AMS 2016