

IEEE GEMCCON 2015
Preliminary Technical Program

<i>Tuesday 10th November 2015</i>			
8:30	Registration		
9:00-12:30	Workshop 1 RADHAZ Dr Paul Kay and Mr Kevin Goldsmith	Workshop 2 EMC Basics Dr Franz Schlagenhauer	Workshop 3 Box Level Lightning Testing Mr Fred Heather
<i>12:30-13:30 Lunch</i>			
13:30-17:00	Workshop 4 Reverberation Chambers Mr Kevin Goldsmith and Dr Paul Kay	Workshop 5 EMI Due to Wind Farms Mr Krishna Venkataraman	Workshop 6 Computer Modelling of EMC Dr Shantanu Padhi

<i>Wednesday 11th November 2015</i>	
8:30am	Registration
9:00 am	Welcome - Chair GEMCCON 2015
9:15am	Keynote Speaker - Mr Fred Heather, US Government Lead for E3 on the F-35 Lighting II Aircraft Title: <i>"I have 25 can I get 10"</i>
<i>10:15 am - Morning tea</i>	

Technical Session - <i>Computational Electromagnetics</i> Chair: Dr Franz Schlagenhauer	
11:00	<i>A Method of Increasing the Isolation between Antennas Using the Theory of Characteristic Modes</i> Jiqian Wang
11:30	<i>Estimating the Mutual Coupling of Out-of-Band Microwave Antennas Installed on a Nanosatellite Using Numerical Modelling</i> Giuseppina Dall'Armi-Stoks and Stephen McClanachan
12:00	Presentation 3
12:30 - 13:30 Lunch	
13:30	Exhibitors/Commercial Session Posters: <i>(Invite Other posters from DST Group (10x) RF and EO Hub & WCSD staff to showcase their Defence S&T showcase)</i> Shielding for Reduction of Magnetic Field Strength from Docent Robot Being Charged by Wireless Power Transfer Technology <i>Kim Byung Chan</i> Presentations: Electromagnetic Safety Measurements <i>M Alferman</i> Reliable EMI compliance Tests using Modern EMI Test Receivers with TD-Scan <i>V. Janssen</i> EMI Due to Wind Farms (TBC) <i>K Venkataraman</i>
14:30 -15:00 Afternoon tea	
Technical Session - <i>EMC and Digital Communications</i> Chair: Dr Paul Kay	

15:00	<i>Impact on Radar Probability of Detection due to Interference from 4G Communication Signals</i> Sandun Kodituwakku et al.
15:30	<i>Development and Capability Demonstration of an Autonomous Wideband Adaptive Digital Interference Canceller</i> Jonathan Russell, Manik Attygalle, Manik and Kim Brown
16:00	Presentation 6
18:30	Conference Dinner Presentation of IEEE EMC Society Awards Conference Dinner Speaker - Dr Margaret Law Manager of Future Submarine Project

Thursday 12th November 2015	
8:30am	Registration
9:00 am	Welcome - Chair GEMCCON 2015
9:15am	Keynote Speaker - Mr Chris Burns, CEO of Defence Teaming Centre <i>Title: "Defence Industry as a Fundamental Input to Military Capability"</i>
10:15 am Morning tea	
Technical Session - <i>EMC and Radio Astronomy Applications</i> Chair: Dr Pina Dall'Armi-Stoks	
11:00	Presentation 7 - TBA
11:30	Presentation 8 - TBA
12:00	Presentation 9 - TBA

<i>12:30 - 13:30 Lunch</i>	
Technical Session- <i>Electromagnetic Environmental Effects (E3)</i> Chair: Mr Fred Heather	
13:30	<i>Electromagnetic Environmental Equivalence: An Optimisation Approach</i> Nectarios Kontoleon
14:00	<i>Determining the Electromagnetic Environment of a Complex Conductive Cavity</i> Nicholas Hunt
14:30	<i>Assessment of a Coaxial Return Direct Drive Setup for HIRF Testing</i> Andrew Walters
<i>15:00 Afternoon tea</i>	
Technical Session - <i>EMC Measurement and Standardisation</i> Chair: Dr Tan Doan	
15:30	<i>An Evaluation and Comparison of Conducted Emission Test Methods for Integrated Circuits</i> Simon Kennedy
16:00	<i>Design of a Generic Test Item</i> Maurizio Gencarelli
16:30	<i>EMC Transfer Function for Angle of Attack Sensors</i> Paul Kay
17:00	<i>Effects of a Near-Field Radio Frequency Interference on a Marine Navigational X-band Radar</i> <i>(Paper still to be submitted and accepted)</i>
17:30 Conclude	