

Monday 25/09/17	Tuesday 26/09/17	Wednesday 27/09/17	Thursday 28/09/17
08:00 – 09:00	08:30 – 09:10	08:30 – 09:10	09:00 – 10:00
Registration	Design and Development of Some Novel Phased Arrays and Anti-Jamming Antennas Prof. Satish Sharma, San Diego State University, USA	Leaky-Wave Antennas: From Niche Applications to Mass Market Prof. Karu Esselle, Macquarie University, Australia	Computational Electromagnetics
09:00 – 09:30	09:10 – 10:30	09:10 – 10:30	
Opening Ceremony	Radio Astronomy III	Couplers, Waveguides and Resonators I	
Coffee Break 09:30 – 10:00	Coffee Break 10:30 – 10:50	Coffee Break 10:30 – 10:50	Coffee Break 10:00 – 10:20
10:00 – 12:00 Workshop: SKA Africa Human Capacity Building	10:50 – 11:30	10:50 – 12:30	10:20 – 11:50
Maxwell's Equations and Electromagnetics after 150+ Years Prof. Weng Cho Chew, University of Illinois, USA	Antenna Design: Early History, Basic Considerations and Recent Developments Prof. Zhongxiang Shen, Nanyang Technological University, Singapore	Couplers, Waveguides and Resonators II	Biological Effects and Medical Applications of EMF
Calculation of Far-Field Radiation Pattern Using Nonuniformly Spaced Antennas by a Least Square Method Prof. Tapan K. Sarkar, Syracuse University, USA	11:30 – 12:30		
Low-Frequency Radio Astronomy Engineering in Western Australia Dr. Adrian Sutinjo, International Centre for Radio Astronomy Research, Australia	Antenna Design		
LUNCH 12:00 – 13:00	LUNCH 12:30 – 13:30	LUNCH 12:30 – 13:30	LUNCH 12:00 – 13:00
13:00 – 14:20 Workshop: SKA Africa Human Capacity Building	13:30 – 14:10	13:30 – 14:50	13:00 – 15:40 Workshop: The Financial and Technical Implications of Counterfeit Devices
The State-of-the-Art Research on UWB Eleven Feed and QRFH Feed in a Perspective of SKA Prof. Jian Yang, Chalmers University of Technology, Sweden	Metamaterials: Optical Properties on Demand Prof. Nikolay I. Zheludev, Southampton University, UK	Wireless Communication Systems	The Challenges and Concerns posed by Counterfeit Devices Michael Milligan, Mobile & Wireless Forum
Spanish Contribution to the SKA Project: Mid-Frequency Band Array Prof. Magdalena Salazar-Palma, Carlos III University of Madrid, Spain	14:10 – 15:50		Addressing the Illegal Device Ecosystem Mohammad Raheel Kamal, Qualcomm
14:20 – 15:20	Wave Propagation and Scattering I		Combating Counterfeit Devices at ITU/International and Regional Level Thomas Barmueller, Mobile & Wireless Forum
Radio Astronomy I			The Economic Cost of IPR infringement in the Smartphone Sector Carolina Arias Burgos, EUIPO
Coffee Break 15:20 – 15:40	Coffee Break 15:50 – 16:10	Coffee Break 14:50 – 15:10	Coffee Break 15:40 – 16:00
15:40 – 17:00	16:10 – 17:50	15:10 – 16:50	
Radio Astronomy II	Wave Propagation and Scattering II	Devices and Circuits	Awards Ceremony 16:30 – 16:50
			Closing Ceremony 16:50 – 17:00
		GALA DINNER : 18:30 – 23:00	

<b>Monday 25/09/17</b>	
<b>08:00 – 09:00 Registration</b>	
<b>09:00 – 09:30 Opening Ceremony</b>	
09:30 – 10:00 Coffee Break	
<b>10:00 – 12:00 Workshop: SKA Africa Human Capacity Building</b>	
1. Maxwell's Equations and Electromagnetics after 150+ Years, Prof. Weng Cho Chew (Invited) 2. Calculation of Far-Field Radiation Pattern Using Nonuniformly Spaced Antennas by a Least Square Method, Prof. Tapan K. Sarkar (Invited) 3. Low-Frequency Radio Astronomy Engineering in Western Australia, Dr. Adrian Sutinjo (Invited)	
12:00 – 13:00 LUNCH	
<b>13:00 – 14:20 Workshop: SKA Africa Human Capacity Building</b>	
1. The State-of-the-Art Research on UWB Eleven Feed and QRFH Feed in a Perspective of SKA, Prof. Jian Yang (Invited) 2. Spanish Contribution to the SKA Project: Mid-Frequency Band Array, Prof. Magdalena Salazar-Palma (Invited)	
<b>14:20 – 15:20 Radio Astronomy I</b>	
1. A Flexible Multi-Frequency Channel Correlator Upgrade For MUSER-I Array, <u>Fei Liu</u> , Yihua Yan, Wei Lang, and Linjie Chen 2. A New IPS Telescope Concept, <u>Yihua Yan</u> , Wei Wang, Linjie Chen, Fei Liu, Lihong Geng, and Zhijun Chen 3. ALMA Band 2+ (67-95 GHz) Receiver Optics, <u>Alvaro Gonzalez</u> , Keiko Kaneko, Shin'inchiro Asayama, Sivasankaran Srikanth, John Effland, and Kamaljeet Saini	
15:20 – 15:40 Coffee Break	
<b>15:40 – 17:00 Radio Astronomy II</b>	
1. Building an Efficient Linear-Array Imager Prototype, <u>Ramesh Balasubramanyam</u> , Swaroop Jois, and Ashwini Prakash 2. Detection of Solar Disk and Sky Brightness for Interferometric Imaging, Ying Mei, Feng Wang, <u>Wei Wang</u> , and Yihua Yan 3. Machine Learning for Radio Frequency Interference Mitigation using Polarization, <u>Olorato Mosiane</u> , Nadeem Oozeer, and Bruce A. Bassett 4. Electromagnetic Modelling of the 32-m Ghana Radio Telescope, <u>Mariet Venter</u> , and Pietro Boli	

<b>Tuesday 26/09/17</b>	
<b>08:30 – 09:10 Plenary Talk</b>	
Design and Development of Some Novel Phased Arrays and Anti-Jamming Antennas, Prof. Satish Sharma (invited)	
<b>09:10 – 10:30 Radio Astronomy III</b>	
1. Global VLBI in the SKA Era, <u>Arpad Szomoru</u> 2. Development of Mid-Frequency Aperture Arrays for Radio Astronomy, Wim Van Cappellen, Arnold Van Ardenne and R. <u>Millenaar</u> 3. On Mingantu Spectral Radioheliograph-MUSER: Introduction and Observations, <u>Yihua Yan</u> , Zhijun Chen, Wei Wang, Fei Liu, Lihong Geng, and Linjie Chen 4. Simulations of a Radio Interferometer, Dragos Matei, and Alina Badescu	
10:30 – 10:50 Coffee Break	
<b>10:50 – 11:30 Plenary Talk</b>	
Antenna Design: Early History, Basic Considerations and Recent Developments, Prof. Zhongxiang Shen (Invited)	
<b>11:30 – 12:30 Antenna Design</b>	
1. Design of a Folded Split Ring Resonator Antenna for Use in an Animal-Borne Sensor, <u>Samuel Dodson</u> , Gideon Wiid, and Thomas Niesler 2. A Dual-Band Antenna for Unmanned Aerial Vehicle Applications, Weihua Tan, and <u>Zhongxiang Shen</u> 3. Analysis of L-Probe Proximity Fad Patch Antenna With Parasitic Patch, Libor Slama, <u>Josef Dobes</u> , Thomas Bostik, and Frantisek Vejrazka	
12:30 – 13:30 LUNCH	
<b>13:30 – 14:10 Plenary Talk</b>	

Metamaterials: Optical Properties on Demand, Prof. Nikolay I. Zheludev (Invited)

**14:10 – 15:50 Wave Propagation and Scattering I**

1. Measurements of Ultra-Wideband Propagation within a Small Aircraft for Replacing Wire Harnesses, [Miyuki Hirose](#), and Takehiko Kobayashi
2. On the Statistical Distribution of Clear Air Effects and the Implication on Microwave Radio Communication Links in Nigeria, [Olalekan Lawrence Ojo](#), and Joseph Sunday Ojo
3. Integrating Over Sea Radio Channel for Sea Turtles Localization in Indian Ocean, Loïc Guegan, [Nour Mohammad Murad](#), Jean Mickael Lebreton, and Sylvain Bonhommeau
4. Two-Probe Method for Advanced EM Wave Propagation Analysis, [Maryna Nesterova](#), Stuart Nicol, and Yuliya Nesterova
5. Communication in Road Tunnels : Predicted Performances of LTE Precoding Techniques, Pierre Laly, Concepcion Sanchis-Borras, Marine Lienard, Jose Maria Molina-Garcia-Pardo, and [Pierre Degauque](#)

15:50 – 16:10 Coffee Break

**16:10 – 17:50 Wave Propagation and Scattering II**

1. Estimation of Specific Attenuation of Radio Signal in Southwest Nigeria, [T.A Adagunodo](#), S.A. Akinwumi, T.V. Omotosho, and M.L. Akinyemi
2. Dominant Path Model Fitted to Signal Measurements of Digital TV in Non-Line of Sight Propagation, Geoflly L. Adonias, and [Joabson N. Carvalho](#)
3. Forward Velocity Extraction from UAV Spotlight SAR Data, Lei Yang, Song Zhou, Lifan Zhao, and [Guoan Bi](#)
4. Freezing Height Level Distribution over Durban, South Africa for Satellite Communication, [Elijah Olurotimi](#), Oludare Sokoya, Joseph Ojo, and Pius Owolawi
5. Impact of Magnetic Activity on Occurrence of Ionospheric Amplitude Scintillation over Lagos, Nigeria, O.O. Afolabi, [T.A. Adagunodo](#), T.T. Ayorinde, A.B. Rabiou, S.A. Akinwumi, and M.R. Usikalu

**Wednesday 27/09/17**

**08:30 – 09:10 Plenary Talk**

Leaky-Wave Antennas: From Niche Applications to Mass Market, Prof. Karu Esselle (Invited)

**9:10 – 10:30 Couplers, Waveguides and Resonators I**

1. Periodic Leaky-Wave Antenna Based on Multilayer Rectangular Waveguide, [Renat Abdullin](#), and Rostislav Sokolov
2. A Tunable Ka-Band Planar Groove Gap Waveguide Resonant Cavity, [Titus Oyedokun](#), Riana Geschke, and Titus Stander
3. Effect of Hollow Centre Post in Coupled Compline Resonators, [Thato M. Pholele](#), Joseph M. Chuma, and Ibo Ngebane
4. Impact of Different Surface Finishes on Insertion Loss for Microstrip Resonators up to 110 GHz, [Olivier Huber](#), Gottfried Magerl, and Holger Arthaber

10:30 – 10:50 Coffee Break

**10:50 – 12:30 Couplers, Waveguides and Resonators II**

1. Resonator Designs for Wireless Power Transfer Systems, Mingzhao Song, Polina Kapitanova, and [Pavel Belov](#)
2. Miniature Band-Pass Filter on Microstrip Resonators, [Letavin Denis A.](#), Hau Vu Xuan, and Hung Luu Quang
3. A Novel Frequency Pattern Enhancement Technique Based on Capacitively Coupled Microstrip Line Feed, [Seyi Stephen Olojede](#), and Babu Sena Paul
4. Miniaturization of Microstrip Directional Coupler by Means of Artificial Transmission Lines, [Letavin Denis A.](#), and Hung Luu Quang
5. A Triple-Band Microstrip Passive Device Based on Quasi Hybrid-Ring Coupler Feeding, [Seyi Stephen Olojede](#), and Babu Sena Paul

12:30 – 13:30 LUNCH

**13:30 – 14:50 Wireless Communication Systems**

1. Performance Analysis of Concatenated LDPC Codes for Video Broadcast Satellite System, Akanksha Gupta, [Anjana Jain](#), and P. D. Vyavahare
2. Novel RSSI-Based Techniques for Indoor Localization, [Jinze Du](#), Jean-François Diouris, and Yide Wang
3. Phase-Locked Radar Impulse Optimal Receiver by Average Risk Minimum Criterion, Denis Dolmatov, Renat Abdullin, and Rostislav Sokolov
4. Compacting Look-Up-Table Models for All-Digital RF-Transmitters, [Norbert Leder](#), Bernher Pichler, Thomas Faseth, Gottfried Magerl, and Holger Arthaber

14:50 – 15:10 Coffee Break

**15:10 – 16:50 Devices and Circuits**

1. Fault Detection of Electrical Equipment by Rapid Calculation of the Magnetic Field from Single and Double-Circuit Twisted Three-Phase Cables, [Alessandro Tacchini](#), Giovanni Mazzanti, Leonardo Sandrolini, Marco Landini, and Effrosyni Kandia
2. Volterra Kernels Extraction from Frequency-Domain Data for Weakly Non-Linear Circuit Time-Domain Simulation, Thong Nguyen, [Jose Schutt-Aine](#), and Ying Chen
3. Experimental Study on Load Dependent X-Parameter Models for PA Design, [Bernhard Pichler](#), Norbert Leder, Gottfried Magerl, and Holger Arthaber
4. Rectenna Design for RF Energy Harvesting using CMOS 350nm and FDSOI 28nm, Edouard Rochefeuille, Frédéric Alicalapa, [Alexandre Douyère](#), and Tan Phu Vuong

5. Identification of Line Current Spectra in DC-to-DC Converters with Input Rectification, [Amoldus S. de Beer](#)

18:30 - 23:00 Gala Dinner

**Thursday 28/09/17**

**09:00 – 10:00 Computational Electromagnetics**

1. Exact Scattering by an Elliptical Ribbon Inside a Dihedral Reflector, [Piergiorgio L. E. Usienghi](#)
2. An Arbitrary Oriented Thin Wire TLM Model with Optimized Interaction Domain, [David Saintier](#), Grégory Kabalane, Marylène Cueille, and Jean-Lou Dubard
3. Microwave Complex Permittivity of Hot Compressed Water in Equilibrium with its Vapour, [Shailendra Oree](#), and Roddy Michel Lollchund

10:00 – 10:20 Coffee Break

**10:20 – 11:50 Biological Effects and Medical Applications of EMF**

1. Effect of Generated Radiofrequency Electromagnetic Field to Heart Rate Variability in Student, [Jakub Misek](#), Jan Jakus, Viera Jakusova, Marcel Veternik, Miroslav Kohan, and Jan Barabas
2. Full Body Imaging with Multiview Electromagnetic Scanners, [Jaime Laviada](#), Yuri Alvarez, Fernando Las-Heras, Borja Gonzalez-Valides, and Ana Arboleya-Arboleya
3. The Analysis of High Frequency Plate Applicator for Deep Hyperthermia Cancer Treatment by Using Dielectric Heating, [Thanaset Thosdeekoraphat](#), Samran Santalunai, Kompisit Krajaipote, and Chanchai Thongsopa
4. Numerical and Experimental Investigations of the Specific Absorption Rate using Reference Dipoles, Mayank Agarwal, and Vikass Monebhurrun

12:00 – 13:00 LUNCH

**13:00 – 15:40 Workshop: The Financial and Technical Implications of Counterfeit Devices**

1. The Economic Cost of IPR infringement in the Smartphone Sector, Carolina Arias Burgos, European Union Intellectual Property Office
2. The Challenges and Concerns posed by Counterfeit Devices, Michael Milligan, Mobile & Wireless Forum
3. Addressing the Illegal Device Ecosystem, Mohammad Raheel Kamal, Qualcomm
4. Combating Counterfeit Devices at ITU/International and Regional Level, Thomas Barmueller, Mobile & Wireless Forum

15:40 – 16:00 Coffee Break

16:30 -16:50 Awards Ceremony

16:50 - 17:00 Closing Ceremony