

Monday 23/09/2019	Tuesday 24/09/2019	Wednesday 25/09/2019	Thursday 26/09/2019
08:00 – 09:00	08:30 – 09:10 Lecture	08:30 – 09:10 Lecture	08:30 – 10:40
Registration	Invited lecture	Invited lecture	Bioelectromagnetics (6)
09:00 – 09:30	09:10 – 10:30	09:10 – 10:30	
Opening Ceremony	Devices and Circuits I (4)	Antenna Design (4)	
Coffee Break 09:30 – 10:00	Coffee Break 10:30 – 10:50	Coffee Break 10:30 – 10:50	Coffee Break 10:40 – 11:00
10:00 - 12:00 Tutorial	10:50 – 12:10	10:50 – 12:20	11:00 – 12:40
Designing Amateur Radio Communication Networks at Home, School, and Work	Devices and Circuits II (4)	Antenna Arrays (3)	Drones & Tracking Systems (5)
LUNCH 12:00 – 13:00	LUNCH 12:10 – 13:30	LUNCH 12:20 – 13:30	LUNCH 12:40 – 13:30
13:00 – 14:00 Tutorial (continued)	13:30 – 15:10	13:30 – 15:00 Workshop 1	
Designing Amateur Radio Communication Networks at Home, School, and Work	Devices and Circuits III (5)	Measurements & Simulations for Industrial Applications & Development of Standards	
14:00 - 15:00 Radio amateurs Session			
Radio Amateurs (Reunion)			
Radio Amateurs (Mauritius)			
Radio Amateurs (India)			
Coffee Break 15:00 – 15:20	Coffee Break 15:10 – 15:30	Coffee Break 15:00 – 15:20	
15:20 – 17:30 SIGHT Session	15:30 – 17:00	15:20 – 17:20 Workshop 2	
Humanitarian projects (6)	Wireless Communication Systems (4)	Electromagnetic Cartography by Sensor Networks (CARERC) Project	Awards Ceremony 14:00 – 14:20
			Closing Ceremony 14:20 – 14:30
		GALA DINNER : 19:00 – 23:00	

Monday 23/09/19
08:00 – 09:00 Registration
09:00 – 09:30 Opening Ceremony
09:30 – 10:00 Coffee Break
10:00 – 12:00 Tutorial
Designing Amateur Radio Communication Networks at Home, School, and Work, Miroslav Skoric
12:00 – 13:00 LUNCH
13:00 – 14:00 Tutorial (continued)
Designing Amateur Radio Communication Networks at Home, School, and Work, Miroslav Skoric
14:00 – 15:00 Radio Amateurs Session
<ol style="list-style-type: none"> 1. Radio Amateurs : A Community Inherently Resilient to Natural Disasters, Patrick Bernard 2. Radio Amateurs & Satellite Communications, Jean Marc Momphe 3. The Effectiveness of Community Radio to Support Disaster Preparedness and the Role of Amateur Radio Communication in Disaster Mitigation, Shri Taheruddin
15:00 – 15:20 Coffee Break
15:20 – 17:30 SIGHT Session
Application of Antennas and Propagation in Fruit Classification, Monai Krairiksh (Invited)
<ol style="list-style-type: none"> 1. Humanitarian Microwave Detection of Improvised Explosive Devices in Colombia : Recent Results and Future Challenges, Christoph Baer 2. ACTION Project, Vikass Monebhurrun, Shailendra Oree, Alexandre Douyère 3. Developpment of Remote Activated LED Floating Ball Water Lane Indicators in Support to Restore Chennai's Waterway Transportation, Chandra Sekar S, J Ram Kumar, Asheesh Kumar Singh 4. Reducing Newborn Mortality Rates in Uganda Through the Use of Vital Signs Monitor, Lwanga Herbert 5. Intelligent Animal Attack Prevention System for Crop Protection, Raiesh Kannan Megalingam

Tuesday 24/09/19

08:30 – 09:10 Lecture

Broadband Cloaking Obtained using HOBBIES Optimization (Prof. Tapan Kumar Sarkar, Syracuse University, USA)

9:10 – 10:30 Devices and Circuits I (Chair: Dr. Tinus Stander)

1. A 60 GHz Low Noise Amplifier for Detection Systems, [Pape Sanoussy Diao](#), Thierry Alves, Benoit Proussot, Martine Villegas
2. Built-in Oscillation Based Testing of RF Amplifier Gain using Differential Power Detection, [Maxwell Ballot](#), Tinus Stander
3. Active Electronically Controlled Circulator Based on Mem-OTAs, [Dalibor Biolesk](#), Viera Biolkova, Josef Bajer, Jiri Vavra
4. An Ultra-Wideband SPDT Switch and Balun IC, [Mantas Sakalas](#), Niko Joram, Franck Ellinger

10:30 – 10:50 Coffee Break

10:50 – 12:10 Devices and Circuits II (Chair: Prof. Blaise Ravelo)

1. NGD Synthesizer with Feedback Hybrid Coupler, [Blaise Ravelo](#), Fayu Wan
2. PCB distributed filters, [Senad Bulja](#), Florian Pivit, Dmitry Kozlov
3. Microwave Filter Design by Geometrical Tuning of Periodic Microstrip Line Structures, [Kasturi Mukherjee](#), Kaushik Patra, Sayantan Dhar, Bhaskar Gupta
4. Non Galvanic PCB Feeding Method of Cavity Filters, Florian Pivit, [Senad Bulja](#)

12:10 – 13:30 LUNCH

13:30 – 15:10 Devices and Circuits III (Chair: Dr. Shailendra Oree)

1. Parasitic Phase Contribution of a Double-Sided Parallel Stripline Phase Inverter, [Robin Jeanty](#), Shih-Yuan Chen
2. Harvesting Mechanical Energy by Means of MEMS Based Electrostrictive Microgenerators, Hussein Nesser, Hélène Debéda, Jenkai Yuan, Annie Colin, Philippe Poulin, Isabelle Dufour, [Cédric Avela](#)
3. An Energy Efficiency Figure of Merit for Radio Transceivers, [Reza Taherkhani](#), Stoyan Nihtianov
4. Performance Analysis of Amplitude-Phase Algorithm for Tiangong-2 Interferometric Imaging Radar Altimeter Data Compression, [Xiaojin Shi](#)
5. Remote Antenna Impedance Measurement in Waveguide, [Hamed Hasani](#)

15:10 – 15:30 Coffee Break

15:30 – 17:00 Wireless Communication Systems (Chair: Prof. Atif Shamim)

Additively Manufactured Flexible, Wearable, Disposable Antennas and Sensors for Wireless Sensing Applications, [Atif Shamim](#) (Invited)

1. Analysis of Scattering Environment for Reliable Indoor Communications Over Millimeter Waves, [D. S. Kozlov](#), U. V. Kirillov, S. Kucera
2. Reproducibility of Fading Propability in a Reverberation Chamber for Wireless Device Testing, [Christoph Cammin](#), Dmytro Krush, Ralf Heynicke, Gerd Scholl
3. Bootstrap Based Energy Efficient Counting Fusion Scheme, Shweta Sahu, [Sourabh Mishra](#), Kamlesh Gupta

Wednesday 25/09/19

08:30 – 09:10 Lecture

Benchmarking of antenna simulation tools: lessons learned (Prof. Guy Vandenbosch, KU Leven, Belgium)

9:10 – 10:30 Antennas & Metamaterials (Chair: Prof. Christophe Fumeaux)

1. A Comparison of BEOL Modeling Approaches in Simulating mm Wave On Chip Antennas, Flavien Sagouo Minko, [Tinus Stander](#)
2. Independently Tunable Dual Band Bandstop Filtering Antenna, Seyed-Ali Malakooti, [Christophe Fumeaux](#)
3. Millimeter Wave 3D Printed Luneburg Lens Antenna, Majid. Norooziarab, [Dimitry Kozlov](#), Vitalii Kirillov, Senad Bulja, Florian Pivit, Pawel Rulikowski, David McCloskey
4. Metasurfaces for High Index Effective Media, [Juliana de Pineda](#), A. P. Hibbins, J. R. Sambles

10:30 – 10:50 Coffee Break

10:50 – 12:20 Antenna Arrays (Chair: Prof. Tzyh-Ghuang Ma)

Preliminary Study on Planar Retro-Beam Scanning Array System, [Tzyh-Ghuang Ma](#), Huy Nam Chu, Ming-Jyun Jiang, Kuan-Ting Fang (Invited)

1. Initial Simulation Results Utilizing Sparse Array Antennas for Space-based AIS, [Daichi Hirahara](#)
2. Yagi Uda Antenna Array for Weather Monitoring, [Ayona Chakraborty](#), Samik Chakraborty, Suman Dey, Bhaskar Gupta
3. Traveling-Wave Slot Array with Backward to Forward Beam Scanning, [Qingshan Yang](#), Xiaowen Zhao, Yunhua Zhang

12:20 – 13:30 LUNCH

13:30 – 15:00 Workshop 1

Measurements & Simulations for Industrial Applications & Development of Standards

15:00 – 15:20 Coffee Break

15:20 – 17:20 Workshop 2

Electromagnetic Cartography by Sensor Networks (CARERC) Project

19:00 - 23:00 Gala Dinner

Thursday 26/09/19

08:30 – 10:40 Bioelectromagnetics (Chair: Dr. Alexandre Legros)

Electromagnetic Radiation Absorption in Indian Flora and Related Consequences : a Critical Issue for Sustainable Growth, Bhaskar Gupta (Invited)

1. Change of Temperature Pattern in Resting Mice Exposed to Mobile Phone RF, René de SEZE, Thi-Cuc MAI, Amandine Pelletier
2. Dependence of Electromagnetic Energy Distribution Inside a Typical Multilayer Fruit Model on Direction of Arrival and Polarization of Incident Field, Ardhendu Kundu, Bhaskar Gupta, Amirul L. Mallick
3. Human acute neurophysiological perceptions associated with ELF flux densities up to 50 mT, Alexandre Legros, Julien Modolo, Daniel Goulet, Michel Plante, Genevieve Ostiguy, François Deschamps, Martine Souques, Jacques Lambrozo
4. Cooperativity as an Emergent Phenomenon, Sara Vesely, Sibilla Dolci, Alessandro Vesely, Caterina Dolci
5. Integrated Fluorescence and Scanning Microwave Microscopy : Nano-Imaging with GHz on System with "Proof of Life", Zahra Nematj, Jinfeng Li

10:40 – 11:00 Coffee Break

11:00 – 12:40 Drones & Tracking Systems (Chair: Dr. Peter Burke)

1. Open 802.15.4 IR-UWB Modular Platform for Localization Protocols Evaluation, Baptiste Pestourie, Vincent Berouille, Nicolas Fourty
2. Trajectory Design for Effective and Secure Communication in UAV-WSN Systems, Florin Stoican, Dan Popescu, Loretta Ichim
3. Fishing Vessel Tracking in Real-Time with Smartphone, N.D. Jayasundere, R G M Priyadharshana, MG N T Rathnapala
4. 4G Coverage Mapping with an Ultra-Drone, Peter Burke
5. UAV to Satellite Communication Systems, Gabriel Militaru, Dan Popescu, Loretta Ichim

12:40 – 13:30 LUNCH

14:00 -14:20 Awards Ceremony

14:20 - 14:30 Closing Ceremony