

iWAT2022 Program

Monday 16 th May 2022	8.00am	Registration			
	8.50am	Opening	William Scanlon , Tyndall National Institute, Ireland, Max Ammann , Technological University Dublin, Ireland, Dan Kilper , Director of CONNECT Centre, and Principal Investigator, Professor of Future Communication Networks, Trinity College Dublin, Ireland		
	9.00am	Plenary M1	From 5G mmWave to 6G THz: Howard Benn , Samsung, United Kingdom		
	M1		ORAL SESSION TITLE	Chair	Co-Chair
			MultiBeam MIMO Antennas and Beamforming Arrays	Despoina Kampouridou University of Birmingham, UK	Max Ammann Technological University Dublin, Ireland
			Session Speaker	Talk Title	
	9.30am	M1.1	Tobias Rommel, German Aerospace Centre (DLR), Germany	DLR's Dual-Polarized Offset Reflector Antenna with Digital Feed Array for Synthetic Aperture Radar	
	9.50am	M1.2	Despoina Kampouridou, University of Birmingham, UK	Multibeam Holographic Metasurface Antenna Design	
	10.10am	M1.3	Yi-Wen Wu, University of Birmingham, UK	High-Efficiency Low-Profile Waveguide Array Antennas	
	10.30am	M1.4	Lehu Wen, University of Kent, UK	Ultra-Thin Light-Weight Low-Cost Electronically-Beam-Scanning Reflectarrays for Ka-Band Satellite Communications on the Move and 6G	
	10.50am	Poster M1	Poster Session M1: Chair - Adam Narbudowicz , Trinity College Dublin, Ireland & Wroclaw University of Science and Technology, Poland		
	12.30pm	Lunch			
	M2		ORAL SESSION TITLE	Chair	Co-Chair
			Microwave, Millimetre-wave and THz imaging	Okan Yurduseven Queen's University Belfast & Duke University, UK	Thomas Fromenteze University of Limoges & Xlim Research Institute CNRS, France
			Session Speaker	Talk Title	
	1.30pm	M2.1	Takuya Sakamoto, Kyoto University, Japan	Radar-Based Measurement of Pulse Wave using Fast Physiological Component Analysis (V)	
	1.50pm	M2.2	Thomas Fromenteze, University of Limoges & Xlim Research Institute CNRS, France	Principal Component Analysis for Microwave and Millimeter wave Computational Imaging	
	2.10pm	M2.3	Shaoqing Hu, Brunel University London, UK	FFT-Based 220 GHz Sparse Imaging for Target Detection	
	2.30pm	M2.4	Raphael Hussung, Fraunhofer Institute Germany	Handheld Millimeter-Wave Imaging at Video Rates and Its Applications	
	2.50pm	Poster M2	Poster Session M2: Chair - John Buckley , Tyndall National Institute, Ireland		
4.40pm	Plenary M2	A Wave Physics Approach To Electronically Steerable Antennas: Tunable leaky cavity antennas: Geoffroy Lerosey , Greenerwave, France			
5.10pm	Close				
6.45pm	Welcome Reception				

8.00am	Registration		
9.00am	Plenary T1	Reconfigurable RF Filtering Technologies: A Step Towards Efficient Spectrum Access & Multi-Standard Communications: Dimitra Psychogiou, University College Cork and Tyndall National Institute, Ireland	
T1	ORAL SESSION TITLE		Chair
	Wireless Power Harvesting and Wireless Power Transfer		Jean-Marc Laheurte Université Gustave Eiffel & ESYCOM Lab, France
	Session Speaker		Co-Chair Stylios D. Assimonis Queen's University Belfast, UK
9.30am	T1.1	Alessandra Constanzo, University of Bologna, Italy	RF/Microwave Energy-Autonomous Systems
9.50am	T1.2	Hakim Takhedmit, University Gustave Eiffel, France	Power Optimized Waveform for Wireless Power Transfer Systems: Simulations and Experiments
10.10am	T1.3	Stylios Assimonis, Queen's University Belfast, UK	Efficient Circular Polarized Metamaterial RF Energy Harvester for Wi-Fi Applications
10.30am	T1.4	Manos Tentzeris, Georgia Institute of Technology, USA	Inkjet-/3D-/4D-Printed "Zero-Power" RFID-enabled Wireless Ultrabroadband Modules for IoT, SmartAg and Smart Cities Applications (V)
10.50am	Poster T1	Poster Session T1: Chair - Vincent Fusco, Queen's University Belfast, UK	
12.30pm	Lunch		
T2	ORAL SESSION TITLE		Chair
	Electromagnetics in Medical Applications		Giuseppe Ruvio Endowave Ltd., Ireland
	Session Speaker		Co-Chair Christopher Brace University of Wisconsin-Madison, USA
1.30pm	T2.1	Jorge A. Tobon Vasquez, Politecnico di Torino, Italy	Microwave Imaging Device for Brain Stroke 3D Monitoring
1.50pm	T2.2	Grazia Cappiello, National University of Ireland, Galway, Ireland	Ablation Treatment Planning for Patients with Primary Aldosteronism
2.10pm	T2.3	Lorenzo Crocco, CNR - National Research Council of Italy, Italy	A Microwave Imaging System Prototype for Liver Ablation Monitoring: Design and Initial Experimental Validation
2.30pm	T2.4	Sergio Curto, Erasmus University Medical Center, The Netherlands	MR Thermometry in Hyperthermia: Imaging for Precise Therapy Monitoring with the Novel Universal Arch Applicator
2.50pm	T2.5	Stavros Koulouridis, University of Patras, Greece	Wearable Patch Antenna using Complementary Split Ring Resonator for Pneumothorax Detection
3.10pm	Poster T2	Poster Session T2: Chair - Roy Simorangkir, Tyndall National Institute, Ireland	
4.40pm	Plenary T2	Implanted antennas: Key Performance Indicators and efficiency: Anja Skrivervik École Polytechnique Fédérale de Lausanne, Switzerland	
5.10pm	Close		
7.30pm	Dinner & Awards		

Wednesday 18 th May 2022	8.00am	Registration			
	9.00am	Plenary W1	Software Defined Materials: A New Platform for Innovative Antenna Engineering: Yang Hao, Queen Mary University of London, United Kingdom		
	W1		ORAL SESSION TITLE	Chair	Co-Chair
			Antennas for 5G and 6G Applications	Dirk Manteufel University of Hannover, Germany	Marta Martinez-Vazques Renesas Electronics, Germany
			Session Speaker	Talk Title	
	9.30am	W1.1	Oskar Zetterstrom, KTH Royal Institute of Technology, Sweden	Planar Luneburg Lens Antennas for 5G and 6G Millimetre Wave Communications	
	9.50am	W1.2	Wonbin Hong, Pohang University of Science and Technology (POSTECH), Korea (South)	Enhancement of mm Wave and Sub-THz Beam Steering Coverage Using Antennas On-Surfaces (AoS) for 5G and 6G (V)	
	10.10am	W1.3	Dmitry Zelenchuk, Queen's University Belfast, UK	Metasurface Augmented Lens Antennas	
	10.30am	W1.4	Eva Rajo Iglesias, University Carlos III of Madrid, Spain	Ka Band Cost-Effective 3D Printed Lens Antenna Designs	
	10.50am	Plenary W2	Radar Frontends for ADAS/AD: Marta Martinez-Vazquez, Renesas Electronics, Germany		
	11.20am	Industry	Novel Foam-Filled Compact Flat Multiband MIMO Antenna (LTE, WiFi and GNSS): Argy Petros, Taoglas, United States		
	W2		ORAL SESSION TITLE	Chair	Co-Chair
			Metasurface Antennas	Xavier Begaud LTCl, Télécom Paris, Institut Polytechnique de Paris, France	Zhi Ning Chen National University of Singapore, Singapore
			Session Speaker	Talk Title	
	11.40am	W2.1	Masood Ur-Rehman, University of Glasgow, UK	Flexible and Wearable Terahertz Antenna for Future Wireless Communication	
	12.00pm	W2.2	Yi Huang, University of Liverpool, UK	Wireless Power Transfer and Energy Harvesting Using Metamaterials and Metasurfaces	
	12.20pm	W2.3	Xavier Begaud, LTCl, Telecom Paris, Institut Polytechnique de Paris, France	Realization and Measurement of a Wideband Metamaterial Absorber Composed with Structural Composite Materials	
	12.40pm	W2.4	Zhi Ning Chen, National University of Singapore, Singapore	Note on Transformation-Optics-Based Flat Metamaterial Luneburg Lens Antenna with Zero-Focal Plane (V)	
	1.00pm	W2.5	Vincent Fusco, Queen's University Belfast, UK	Metamaterial Absorber using Conventional Inkjet-Printing Technology Applied to Antennas	
	1.20pm	Closing	William Scanlon, Tyndall National Institute, Ireland, Max Ammann, Technological University Dublin, Ireland		
1.30pm	Lunch				

Notes:

- Registration will take place in the **Ground Floor Concourse**, Trinity Business School
- All Plenary and Oral Talks will be held in the **Maharry Theatre**, Trinity Business School
- All Poster Sessions will take place in the **Ground Floor Concourse**, Trinity Business School (tea, coffee, refreshments will be provided)
- Lunch will be held in the **Ground Floor Concourse**, Trinity Business School
- The Welcome Reception will take place in **Regent House**, Trinity College Dublin
- The Dinner and Awards Ceremony will be held at **Corrigan Hall**, Royal College of Physicians of Ireland