

43rd Wireless World Research Forum

9-11th October 2019

NPL, Teddington, UK

Wednesday 9th October

08.30 – 09.00	Registration			
09.00 – 10.30	Plenary Session 1 - Opening			
	Auditorium – chaired by Sundeep Bhandari, NPL			
09.00 – 09.30	Welcome presentation	Robin Hart, Strategy Director, NPL		
09.30 – 10.00	Update on WWRF progress and plans	Nigel Jefferies, Chairman, WWRF		
10.00 – 10.30	Intelligent applications for whom? Does everything have to be Smart? Views from the underworld...	Tim Unwin, Royal Holloway University of London		
10.30 – 11.00	Coffee			
11.00 – 12.30	Plenary Session 2 – The Future of Networks			
	Auditorium – chaired by Nigel Jefferies, Huawei			
11.00 – 11.30	Beyond 5G, the WWRF view	Sudhir Dixit, WWRF		
11.30 – 12.00	What is Next?	Rahim Tafazolli, University of Surrey		
12.00 – 12.30	Future Networks Architecture: Thinking out of the Box	Dimitra Simeonidou, University of Bristol		
12.30 – 13.00	WWRF General Assembly			
	Auditorium – chaired by Nigel Jefferies (WWRF)			
13.00 – 14.00	Lunch			
14.00 – 15.30	WG A/B¹		WGD	
	Syndicate Room F16 CS6	Chaired by Knud Erik Skouby,	Auditorium	Chaired by Angeliki Alexiou,

¹ For Mobile VCE members, their AGM will take place in Syndicate Room F16 CS7 at 1400

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		University of Aalborg		University of Piraeus
14:00 – 14:30	5G, Net Neutrality, Network Slicing, Network Function Virtualization, Data prioritization	Szymon Izydorek, University of Aalborg	Joint Reflecting and Precoding Designs for SER Minimization in Reconfigurable Intelligent Surfaces Assisted MIMO Systems	Jia Ye, King Abdullah University of Science and Technology (KAUST), Saudi Arabia
14:30 -15:00	Consent cookies: perceptions and misperceptions – focusing on the user side of GDPR	Lene T Sørensen, University of Aalborg	Enabling Airborne Base Stations Using Tethered UAVs: System Configuration, Advantages, and Challenges	Mustafa A. Kishk, King Abdullah University of Science and Technology (KAUST), Saudi Arabia
15:00 – 15:30	The next Frontier in Financial Inclusion, beyond the Kenyan Success Story and Lessons for Ghana: An Actor Network Perspective	Julius Asamoah Yaw, University of Aalborg	A SDR-based Platform for Heterogeneous IoT-Network Management	Mouna Ben Mabrouk, Altran Telecom & Media, France
			Technical Trends on Over-the-Air Tests for 5G and Beyond	Tian Hong Loh, National Physical Laboratory, UK

15.30 – 16.00

Tea

16.00 – 17.30	WG BM		WG HF	
	Syndicate Room F16 CS6/7	Chaired by Knud Erik Skouby, University of Aalborg	Auditorium	Chaired by Angeliki Alexiou, University of Piraeus
16.00 – 16.20	Impact on Innovation of 5G Business Models	Peter Lindgren, University of Aarhus	Ultra Wideband MMWAVE for UMMIMO for 6G Networks	Hamed Al-Raweshidy, Brunel

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				University London, UK
16.20 – 16.40	Cross-border aspects of 5G Business Models	Idongesit Williams, University of Aalborg	Ultra-Massive MIMO Systems at Terahertz Bands: Prospects and Challenges	Alice Faisal, Effat University, Saudi Arabia
16.40 – 17.00			An overview of the Meteracom Project (Metrology for THz Communications)	David Humphreys National Physical Laboratory Teddington, UK,
17.00 – 17.20			Ergodic capacity evaluation of wireless THz fiber extenders	Evangelos N. Papatotiriou, University of Piraeus

18.30 – 21.00

Dinner

King's Head, Teddington

Thursday 10th October

09.00 – 10.00	Registration	
EMW Workshop Title: Healthcare Delivery under the 5G Infrastructure: Experiences, Challenges and Opportunities		
10.00 – 11.05	Plenary Session 3 – EMW Workshop	
Auditorium – chaired by Costas Danas (WWRF)		
10.00 – 10.15	Introduction	Costas Danas and Christos Politis
10.15 – 10.40	Current Experience - The Case for Diabetes	Abdul Roudsari, University Of Victoria, Canada
10.40 – 11.05	Opportunities and Challenges - The NHS View	Cindy Fedel, Chief Digital and Information Officer, Bradford Teaching Hospitals NHS Foundation Trust, UK

11.05 – 11.25

Coffee

11.25 – 13.45	Plenary Session 4 – EMW Workshop	
Auditorium – chaired by Christos Politis (Kingston University)		
11.25 – 11.50	Medical Expectations “Time is Brain” - The Case of Head Strokes	Christos Bakirtzis, AHEPA University Hospital, Greece
11.50 – 12.15	Ambulatory System - Innovate UK Project	Arsian Usman, Kingston University, UK

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12.15 – 12.40	Self-Management Platform for Chronic Respiratory Diseases through 5G-Enabled Monitoring and Training Approaches	Antonis Lalas, Information Technologies Institute Centre for Research and Technology Hellas, CERTH Thessaloniki, Greece
12.40 – 13.00	Discussion and Closing Remarks	

13:00 – 14.30	Lunch
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14.30 – 15.30	Plenary Session 5	
	Auditorium, Chaired by Sudhir Dixit (WWRF)	
14.30 – 15.00	Connected Vehicles	Sesh Mohan, UA Little Rock
15.00 – 15.30	6G research in Finland	Marcos Katz, University of Oulu

15.30 – 16.00	Tea
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16.00 – 17.30	WG CV		WG WAI	
	Syndicate Room F16 CS6/7	Chaired by Seshadri Mohan, UA Little Rock	Auditorium	Chaired by Tan Bin, Huawei
16.00 -16.25	Security and Privacy in Connected Vehicles	Marcus Wong, Huawei, USA		
16.25 – 16.45	Cybersecurity Aspects of 5G Connectivity in Smart Cities Ecosystem via Connected and Autonomous Vehicles Use Cases	Antonios Lalas, Information Technologies Institute, Centre for Research and Technology Hellas (CERTH), Greece		
16.45 – 17.10	Real-Time V2V Communication with a Machine Learning-based System for Detecting Drowsiness of Drivers	Akshay Yewale, UA Little Rock, USA		
17.10 – 17.30	Connected Vehicles White Paper II	Seshadri Mohan, UA Little Rock, USA		

17.30 – 19.00	Cocktail Reception	Atrium
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Friday 11th October

08.30 – 09.00	Registration
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09.00 - 09.30	Plenary Session 5 – Cybersecurity	
	Auditorium – chaired by Knud Erik Skouby, University of Aalborg	
09.00 – 09.30		Samant Khajuria, Terma
09.30 – 10.00		Mathew Lewis, NCC Group

10.00 – 10.30	Coffee
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10.30 – 12.00	Plenary Session 6 – THz Technologies and Networks	
	Auditorium – chaired by Angeliki Alexiou, University of Piraeus	
10.30 – 11.00	Conquering the Terahertz Band: From Theory to Practice	Josep Jornet, Northeastern University, USA
11.00 – 11.30	6Gwireless: Wireless Networks Empowered by Reconfigurable Intelligent Surfaces	Marco di Renzo, CNRS, France
11.30 – 12.00	Architecture and implementation of THz communication systems at NPL	Irshaad Fatadin, NPL, UK
	Metrology for components for THz communications at NPL	Mira Naftaly, NPL, UK

12:00 – 13.30	Lunch
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13.30 – 15.00	WG Cybersecurity	WG C
	Syndicate Room F16 CS6/7	Chaired by Knud Erik Skouby, University of Aalborg
13:30 – 13:55	Privacy & Security in 5G – draft WP	Samant Khajuria, Terma
13:55 – 14:20		Learn from Images: Deep Convolutional Neural Networks
		Auditorium
		Chaired by Sudhir Dixit, WWRF
		A multi-physics laboratory for the characterisation of RF components
		Yantong Wang, KCL

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			for Mobile Edge Caching	
14:20 – 14:45			BIAS mitigation methods for autonomous network functions in telecommunication networks	Premnath Narayanan, Ericsson
14:45 – 15:15			Review of Network Slicing white paper and review of Beyond 5G white paper.	Discussion led by Sudhir Dixit
15.15 – 15.30	Tea			
15.30 – 16.30	Closing Session			
	Auditorium, chaired by Nigel Jefferies, WWRF			