

PROGRAMME WWRF 41

Monday 29th October 2018		
Steering Board Meeting 10.00 - 5.00/Steering Board Dinner 7.00pm		
Tuesday 30th October 2018 (Day 1)		
Opening Plenary Session 1		
Session Chair: Hendrik Berndt		
09.00 - 09.05	WWRF Welcome	Nigel Jefferies, Chair WWRF, UK
09.05 - 09.10	Welcome from General Chair of 41st Meeting	Ramjee Prasad, Aarhus University, Denmark
9.10 - 9.20	Opening Presentation	Anders Frederiksen, Head, Department of Business Development and Technology, Aarhus University, Denmark
09.20 - 09.30	Fellow Presentations	Nigel Jefferies, Chair WWRF, UK
09.30 - 10.00	IMT Process & History	Colin Langtry, ITU (Retired), France
10.00 - 10.30	EU & 5G Development	Bernard Barani, European Commission, Belgium
10.30 - 11.10	Coffee Break	
Plenary Session 2- IMT2020		
Session Chair: Gregory O'Brien, President, ITU University, San Jose, USA		
11.10 - 11.15	Chair Introduction	Gregory O'Brien, ITU University, USA
11.15 - 11.40	Swisscom's 5G Status and Future Directions	Marcus Brunner, Chief Researcher, Head of Standardization, Swisscom, Switzerland
11.40 - 12.05	Harmonious growth of mobile communications in the 5G Era	Shu Kato, Tohoku University, Japan
12.05 - 12.30	IMT2020: 5GPPP Evaluation Group activities	Werner Mohr, Nokia, Germany
12.30 - 14.00	Lunch Break	
Special Sessions on Next Generation of Wireless Systems		
Special Session 1 - Key Innovations Beyond 5G		
Session Chair: Angeliki Alexiou		
14.00 - 14.05	B5G Workshop : Key Innovations Beyond 5G	Angeliki Alexiou, Chair WWRF Working Group D, University of Piraeus, Greece
14.05 - 14.20	Molecular Communications	Yansha Deng, Kings College, University of London, UK
14.20 - 14.35	THz Communications: the new wireless frontier for systems B5G	Angeliki Alexiou, University of Piraeus, Greece
14.35 - 14.50	Improving 5G operation with UAV-Assisted links	Yevgeni Koucheryavy, Tampere University of Technology, Finland
14.50 - 15.05	Nokia Bell Labs' Views on B5G	Mikko Uusitalo, Nokia Bell Labs, Finland
15.05 - 15.20	Enabling Technologies for Large-scale Communication Systems	Constantinos Papadias, AIT, Greece
15.20 - 15.30	Q&A Speakers and Audience	
Session Chair: Dr Sudhir Dixit		
16.00 - 16.15	Introductory Comments	Sudhir Dixit, Chair WWRF Working Group C, USA
16.15 - 16.30	5G Beyond till 6G: an update of the vision and the role of machine learning	Klaus David, Kassel University, Germany
16.30 - 16.45	Freemium Model for Smart Network Access	Josef Noll, University of Oslo & Basic Internet Foundatio
16.45 - 17.00	Smart Networks with AI-enabled Spectrum Sharing	Dr. F. Mekuria, CSIR Meraka ICT Institute, South Africa
17.00 - 17.15	Introducing 6G-Enabled Wireless Smart Society & Ecosystem	Marcos Katz, Centre for Wireless Communications (CWC), University of Oulu, Finland
17.15 - 17.30	Q&A Speakers and Audience	
Free Evening & Networking		

Wednesday 31st October 2018 (Day 2)		
Plenary Session 3A: Vertical Industry		
Session Chair: Knud Erik Skouby		
9.00 - 9.20	5G Applied to Vertical Industry Use Cases:	Walter Weigel, Huawei, Germany
Plenary Session 3B - 5G for Railway		
Session Chair: Steffen Ring		
09.20 - 09.40	Chairman's Introduction	Goal of the new VIP Rail Group, EU Matters and WRC 19 Agenda Item 1.11
09.40 - 10.10	Radio spectrum for future railway applications	Thomas Weilacher, Chairman of CEPT/ECC Working Group Frequency Management (WG FM), Germany
10.10 - 10.40	GSM-R evolution towards 4G/5G broadband	Gabor Zsigmond, Nokia Solutions and Networks GmbH, Germany
10.40 - 11.00	Coffee Break	
Plenary Session 4 - 5G for Water Industry		
Session Chair: Miquel Payaró		
11.10 - 11.30	Introduction, Goal of VIP Group, and water related activities at CTTC	Miquel Payaró, CTTC, Spain
11.30 - 11.50	IoT-based precision irrigation and water management pilots	Juha-Pekka Soininen, SWAMP Project, Finland
11.50 - 12.15	Emergent water technologies for enabling newer digital water services	Gabriel Anzaldi, Director, Smart Management Systems Unit at Eurecat, Spain
12.15 - 12.35	Cataract: A platform for the proactive management of water and utilities	Aimilia Bantouna, WINGS ICT-Solutions, Greece
12.35 - 13.30	Lunch Break	
General Assembly - Chair Nigel Jefferies		
13.30 - 14.15	WWRF REPORT & ELECTIONS	
Parallel Sessions for Working Groups 1		
	WGA/B	VIP RAIL
	WG Chair: Knud Erik Skouby	WG Chair: Steffen Ring
14.15 - 14.35	Introduction & including upcoming Publications	Stephan Sand, Deutsches Zentrum für Luft- und Raumfahrt, Germany
14.35 - 14.55	Sensing Multi Business Model Innovation via advanced sensor and wireless technologies - Peter Lind	Discussion on WG objectives, workplan and white paper
14.55 - 15.15	The Economics of Elasticity underpinning Emergent Business Models - Simon Fletcher	
15.15 - 15.35	Connected Stores. Connected Brands, Connected Consumers, Connected Good: On Business model ecosystems in Internet of Packaging - Justina Lydekaiyte and Torben Timbo	
15.35 - 16.00	Coffee Break	
Parallel Sessions for Working Groups 2		
	WGA/B	WGD/WG HF/EVAL
	WG Chair: Knud Erik Skouby	WG Chair: Angeliki Alexiou
16.00 - 16.20	Impact of 5G Technologies on Smart City Implementation - Sriganesh Rao	Extreme Eigenvalue Based Detection for Spectrum Sensing in Cognitive Radio under Impact of Noise and Interference Uncertainty - Albena Mihovska, Aarhus University, Denmark

16.20 - 16.40	Smart Pharma Optimization and Healthcare Business Analytics - Sadia Anwar et al	5G Beyond till 6G: an update of the vision with a perspective from Hermes - Klaus David, Kassel University, Germany
16.40 - 17.00	Future Laboratory Technologies for Measuring the Multi Business Model Innovation Process in a World with Artificial Intelligence - Per Valter	International Telecommunications Union (ITU) Recommendations and challenges for Future Wireless Technologies in mm and THz Waves - Ashok Chandra
17.00 - 17.20	Data Driven -Proxy Resource Allocation Towards Customerr QoE in 5G Networks - M.C Holophe	IMT 2020 Evaluation Group Activities, ITRI, Taiwan
17.20 - 17.40	What do you Mean? - Discussing GDPR with Teens - Lene T. Sørensen	Discussion and planning of WWRF IMT 2020 Evaluation Group Activities
18,00	BUS DEPARTS FOR SOCIAL EVENT	
19.00 - 21.00	Social Event - Dinner	

Thursday 1st November 2018 (Day 3)		
Plenary Session 5 - International Perspective		
Session Chair: Peter Lindgren		
09.00 - 09.10	Introduction	Peter Lindgren, Aarhus University, Denmark
09.10 - 09.30	Disruptions triggered by mobile internet and IoT	Lars Kierkegaard, InnoPaze, Denmark
09.30 - 09.50	Business Opportunities and Security with 5th Generation	Anand Prasad, NEC, Japan
09.50 - 10.10	IC Chips Underpin AI	May Huang, ITU, USA
10.10 - 10.30	Rules for interworking: Rules taker or maker?"	Kiritkumar Lathia, GISFI, India
10.30 - 10.50	Integrated Moving Networks - Mutual Opportunities for Connected Vehicles and Mobile Networks	Tommy Svensson, Chalmers University of Technology, Sweden
10.50 - 11.20	Coffee Break	
Parallel Sessions for Working Groups 3		
	VIP Connected Vehicles	WG Wireless AI
	WG Chair: Seshadri Mohan	WG Chair: Huang Hua
11.20 - 11.25	Introduction & VIP CC White Paper - Seshadri Mohan	Latest news from the Wireless AI Alliance
11.25 - 11.40	Where is your Guardian Angel? - Locating and Protecting Vulnerable Road Users	Discussion session on AI white paper, Chaired by Miguel Angel, and involving remote participants by teleconference
11.40 - 11.55	An IoT-Based System with Machine Learning for Detecting Drowsiness of Drivers - Sayon Karmakar, Anush Nagesh, Sumit Gore, Hadi salman, Mariofanna Milanova, Seshadri Mohan	
11.55 - 12.15	Artificial Intelligence and IoT Enabled Safe, Green and Smart Transportation System - Vandana Rohokale and Ramjee Prasad	
12.15 - 12.30	Proposed Algorithm Based on Inertial Measurement for Localization - Shouyi Zhang, Neeli Prasad, May Huang	
12.30 - 13.30	Lunch Break	
Parallel Sessions for Working Groups 4		
	VIP Connected Vehicles	WG A/B
	WG Chair: Seshadri Mohan	WG Chair: Knud Erik Skouby
13.30 - 13.50	Blockchain-Based Internet of Vehicles (IoV): An Efficient Secure Ad Hoc Vehicular Networking Architecture - Sachin Sharma, Seshadri Mohan	Sustainability as a need for the user and requirement for the systems and services, Jari Porras, Lappeenranta University of Technology, Finland
13.50 - 14.10	Requirements for Pedestrian Safety: The Wireless Seatbelt - Klaus David, Kassel University, Germany	Discussion on White Paper
Closing Plenary Session 6		
Session Chair: Nigel Jefferies		
14.10 - 14.20	Invitation to 42nd Meeting - Tokyo, Japan	Hendrik Berndt (ARIB) on behalf of Kohei Satoh, 5GMF, Japan
14.20 - 15.00	Chairs of each Working Group will present summary of their discussions. Wrap-up and future activities	
15.00-15.30	Close of meeting and coffee	