Program Outline

Day I: Tuesday October 22, 2013

Time				
08:30-09:00	Registration			
09:00-10:30	Opening Session - 300			
10:30-11:00	Morning Coffee Break			
11:00-12:30	Quantum Computing - 300			
12.30-13:30	Lunch			
13:30-15:00	WG A Session I - 225	WG B Session I - 215	WG C Session I - 300	WG D Session I - 400
15:00-15:30	Afternoon Coffee Break			
15:30-17:00	WG A Session II - 225	WG B Session II – 215	WG C Session II - 300	WG D Session II - 400
17:00-17:30				Editors meeting for ITU WP5D workshop contribution - 400
17:30-19:30	Reception			

Day II: Wednesday October 23, 2013

Time			
08:30-09:00	Registration		
09:00-10:30	Commercialization & Standardization Session I - 300		
10:30-11:00	Morning Coffee Break		
11:00-12:30	Commercialization & Standardization Session II - 300		
12.30-13:30	Lunch		
13:30-15:00	WG A/B Joint Session III - 400	WG C/D Joint Session III - 300	
15:00-15:30	Afternoon Coffee Break		
15:30-17:00	WG A/B Joint Session IV - 400	WG C Session IV - 300	WG D Session IV - 225
18:30	Banquet		

Day III: Thursday October 24, 2013

Time	
09:00-10:30	Cyber Security Panel Session - 300
10:30-11:00	Morning Coffee Break
11:00-12:30	Optical Wireless- 300
12.30-13:30	Lunch
13:30-15:30	Final Session - 300

Final Program

Day I: Tuesday October 22, 2013

8:00-9:00 Registration

9:00-10:30 Opening Session (Chair: Dr. Nigel Jefferies) - 300

09:00-09:15	Opening of WWRF 31, Welcoming Message from ICICS Director
	Prof. Victor Leung and Prof. Panos Nasiopoulo,
	The University of British Columbia, Canada
09:15-09:30	WWRF Status and Activities
	Prof. Nigel Jefferies, WWRF Chair
09:30-09:35	Award to new Fellow Robert Simmonds
	Prof. Nigel Jefferies, WWRF Chair
09:35-10:00	Fellow's Presentation: A Brief History of Clearnet
	Dr. Robert Simmonds, Lenbrook Corp.
10:00-10:30	5G Wireless
	Dr. Wen Tong, Huawei Technologies

10:30-11:00 Morning Coffee Break

11:00-12:30 Quantum Computing Session (Chair: Dr. Shalini) - 300

11:00-11:45	Invited Talk: "Quantum Information Processing"
	Presenter: Prof. Raymond Laflamme
	Executive Director in Institute for
	Quantum Computing at Univesity of Waterloo
11:45-12:30	Quantum Computing and Quantum Communications at LANL
	Presenter: Prof. Rolando D. Somma
	Theoretical Physicist and Staff at Los Alamos National Laboratory

12:30-13:30 Lunch

13:30-14:00 Plenary Session

13:30 - 13:50	Introduction of WWRF Working Groups and Election of WG Chairs and Vice-chairs
13:50 - 14:00	Invitation to WWRF-32
	Presenter: Prof. Mischa Dohler
	King's College, University of London, UK

14:00-15:00 Parallel Session I of WGs

WG A Session I - 225

14:00-14:30	Smart Home Wireless Sensor Nodes: Addressing the Challenges using Smart Objects and Artificial Intelligence
	Per Lynggaard,
	Aalborg University, Denmark

WG B Session I - 215

14:00-14:30	Evaluating Customer Energy Invoice Calculation as a Service
	Jari Porras,
	Lappeenranta University of Technology, Finland
14:30-15:00	Smart Grid invoice privacy in the Cloud
	Jari Porras,
	Lappeenranta University of Technology, Finland

WG C Session I – 300

14:00-14:30	Invited Talk: "Small Cell Enhancement with Multi-Stream Aggregation" (White paper identification)
	Dr. Yongxing Zhou, Huawei, China

14:30-15:00	Invited Talk: "Network Efficiency Improvements for Future Wireless Networks"
	Clara Qian Li, Intel Corp., USA

WG D Session I - 400

14:00-14:20	Ultra Dense Network: Key Solution for Future Capacity Explosion
	Liu Jiamin, Kang Shaoli, Wang Yingmin, Qin Fei, Kou Huiru
	State Key Laboratory of Wireless Mobile Communication, CATT, Beijing, China
14:20-14:40	Cooperative Distributed MIMO Broadcasting — A Promising Solution to the "Mobile Data Tsunami" in 2020
	Ming Liu, Jean-François Hélard,
	Matthieu Crussière, Maryline Hélard
	Institut National des Sciences Appliquées de Rennes (INSA), Rennes, France
14:40-15:00	Software-Based Design of Multiple Antenna Systems for Large Wireless Capacities
	Maryam Dehghani Estarki and Rodney G. Vaughan
	Sierra Wireless Mobile Communications Laboratory,
	School of Engineering Science Simon Fraser University, Burnaby, Canada

15:00-15:30 Afternoon Coffee Break

15:30-17:30 Parallel Session II of WGs

WG A Session II - 225

15:30-16:00	Using mobile phones for environmental protection in Africa: The Equatorial Africa Deposition Network case study
	Alejandro Islas Lopez, McMaster University, Canada
16:00-16:30	Proactive Security Issues in WLANs – a Nigerian case study
	Isa Abdullahi/ Knud Erik Skouby,
	Aalborg University, Denmark
16:30-17:00	WP-draft: Developing countries requirements

WG B Session II - 215

15:30-16:00	Network based Aggregation Server for Federated WiFi Access
	Andreas U. Schmidt
16:00-16:30	(U)SIM Usage in OTT
	Marcus Wong
16:30-17:00	"let's imagine you are an app"
	Mario Hoffmann

WG C Session II - 300

15:30-16:00	Design Considerations for Radio Protocol Improvement beyond LTE-Advanced: Service Access Integration and Optimization
	Ki-Dong Lee and Sang G. Kim,
	LG Electronics Mobile Research
16:00-16:30	Performance Analysis of a Joint Carrier Frequency Offset Estimation Algorithm for Co-channel OFDM Signals Using MUSIC Algorithm with Modified Rank Selection
	Seema Sud, The Aerospace Corporation, USA
16:30-17:00	Spectral Efficiency of Neighbourhood Femtocell Networks
	Anwer Al-Dulaimi, Alagan Anpalagan,
	Ryerson University, Canada;
	John Cosmas, Brunel University, UK
17:00-17:30	Experimental Results on Indoor Positioning based on Visible Light Communications
	Siu Wai Ho, Telecommunications Research, UniSA, Australia

WG D Session II - 400

15:30-16:00	Invited Talk: "Angular Momentum Radio – Principles and Techniques"
	Bo Thidé, Swedish Institute of Space Physics, Uppsala, Sweden,
	and University of Padua, Padua, Italy
	Fabrizio Tamburini, Twist Off S.R.L., Padua, Italy, and University of Padua, Padua, Italy
16:00-16:20	Wireless Wide Area Network for Internet of Things
	Chandra Bontu, Shalini Periyalwar,
	Mark Pecen, Jim Womack,
	Blackberry Corp.
16:20-16:40	Mobility Management for LTE based Small Cell Networks
	Saba Al-Rubaye and Anwer Al-Dulaimi,
	Ryerson University, Toronto, Canada
16:40-17:00	Autonomous Opportunistic Spectrum Access Strategie: Benefits of Adaptive Strategies
	Zaheer Khan, Marcos Katz,
	Centre for Wireless Communications (CWC), University of Oulu, Finland;
	Zhu Han, University Of Houston, USA;
	Luiz A. DaSilva, Virginia Tech, USA and Trinity College Dublin, Ireland

17:30-19:30 Reception

Day II: Wednesday October 23, 2013

8:00-9:00 Registration
9:00-10:30 Commercialization & Standardization Session I – 300
Workshop on Wireless Standardization and Commercialization Session I

9:00-9:05	Welcome and Introduction
	Prof. Dave Michelson
	University of British Columbia
9:05-9:30	Changing the Innovation Cycle
	Prof. Mischa Dohler
	King's College, University of London
9:30-10:00	The Mobile Operator's Challenge on Business-Relevant Technology Advances
	Dr-Ing Hendrik Berndt
	DoCoMo Communications Laboratories Europe
10:00 - 10:30	Move Together To Stay Together
	Dr. Ki-Dong Lee
	LG Electronics Mobile Research U.S.A.

10:30-11:00 Morning Coffee Break
11:00-12:30 Commercialization & Standardization Session II – 300
Workshop on Wireless Standardization and Commercialization Session II

11:00-11:30	Support of Innovative SMEs as Part of European Collaborative Research Framework Programs
	Dr. Werner Mohr
	Nokia Solutions and Networks (Munich, Germany)
11:30-12:00	Wireless Commercial Resources in Canada
	Brad Lowe
	Wavefront Wireless Commercialization Centre
11:30-12:00	Panel Session

12:30-13:30 Lunch
13:30-15:00 Parallel Session III of WGs
WG A/B Joint Session III - 400

	WG A/B Joint Session on Cyber Security	*Organizer : Mario D. Hoffmann*
13:30-14:00	"Identity in your Wallet" - User-centric security with a business value	*Jörg*
14:00-14:30	A Regulator's Perspective: Leading the way with Privacy by Design	*Michelle*

WG C/D Joint Session III - 300

13:30-13:55	Introduction to 5G preparation activities in Korea
	Lee HyeonWoo, DanKook University, Korea
13:55-14:20	World Beyond 2020: How 5G Will Play a Major Role in Supporting Socio-Technical Evolution
	Agnieszka Szufarska, Patrick Marsch, Preben Mogensen, Ossi Pollanen,
	Nokia Solutions and Networks
14:20-14:45	Moving Towards Green Communications: The Emergence of Neighbourhood Femtocell Networks
	Anwer Al-Dulaimi, Alagan Anpalagan, Ryerson University, Canada
14:45-15:00	Joint Session Wrap-Up (White Papers discussion etc.) *ALL*

15:00-15:30 Afternoon Coffee Break
15:30-17:30 Parallel Session IV of WGs
WG A/B Joint Session IV - 400

15:30-15:50	Status of the book	*Knud Erik Skouby*
15:50-16:10	White Paper on User Interfaces	*Jari Porras*
16:10-16:45	Discussion on White paper drafts	
	WP-draft: User Requirements/Social Networks	*Knud Erik Skouby*
	WP-draft: User 2020	*Jari Porras*
	WP-draft: Service level agreement	*Jari Porras*
16:45-17:00	Wrap up of WGA and WGB	*Knud Erik Skouby, Jari Porras*

WG C Session IV - 300

15:30-15:55	CTP-A: A New Routing protocol Based on Collection Tree Protocol
	Fariborz Entezami, Christos Politis,
	Kingston University, UK
15:55-16:20	Secure Dynamic & Autonomous Authentication Framework for Mobile Ad-hoc Networks
	Nuwan Weerasinghe, Arvind Ramrekha, Christos Politis,
	Kingston University, UK
16:20-16:45	Reliability of Routing Protocols in Smart Utility Networks: A Simulation Study
	Gopalakrishnan Iyer, Prathima Agrawal, Ruben Salazar,
	Auburn University, USA
16:45-17:00	Meeting Wrap-Up, discussion on White Papers, conclusions
	ALL

WG D Session IV - 225

15:30-15:50	Security Analysis on NFC Applications
	Xiaobo Guo, Lingling Zhao, Puxin Yao, Tianbo Lu, Bing Xu
	School of Software Engineering, Beijing University of Posts and Telecommunications, Beijing, China
15:50-16:10	On Secure Inter- and Intra-Vehicle Communications
	Md. Mahmud Hasan and Hussein T. Mouftah
	School of Electrical Engineering and Computer Science, University of Ottawa, Ottawa, ON, Canada
16:10-16:30	Spectrum Technology Evolution for future cellular systems
	Dr. Yongxing Zhou
	3GPP LTE RAN standard in Huawei
16:30-17:00	Discussion on the 2 WGD White Papers in progress and new white papers, conclusions, meeting wrap-up
	ALL

18:30 Banquet

Day III: Thursday October 24, 2013

9:00-10:30 Cyber Security Panel Session - 300
Moderator : Mario D. Hoffmann
Panelist: Michelle Chibba, Prof. Atta Badii, Dr. Nigel Jefferies, Jörg Heuer
10:30-11:00 Morning Coffee Break
11:00-12:30 Optical Wireless Session (Chair: Dr. Lutz Lampe, Dr. Roger Green) - 300

11:00-11:30	EU COST Action IC1101: "OPTICWISE" : Shaping the future of Optical Wireless communications
	Presenter: Prof. Roger Green
	Professor of Electronic Communication Systems, School of Engineering, University of Warwick, United Kingdom, and European Project Action COST IC1101 Financial Rapporteur, and co-chair of the Special Interest Groups (SIGs) on Visible Light Communications (VLC) and Underwater Systems
11:30-12:00	Indoor to Outer space: theory and experiments in optical wireless communications
	Presenter: Prof. Steve Hranilovic
	Associate Professor in the Department of Electrical and Computer Engineering, McMaster University (Hamilton, Ontario, Canada)

12:00-12:30	Visible Light Communication: An Industrial Perspective
	Presenter: Dr. Aleksandar Jovicic
	Qualcomm Research New Jersey,
	Lead Engineer of Qualcomm's R&D program on Visible Light Communication

12:30-13:30 Lunch
13:30-15:30 Final Session (Chair: Dr. Nigel Jefferies) - 300

13:30-14:00	Dynamic Spectrum Access in the TV White Spaces & Beyond
	Dr. Ranveer Chandra, Microsoft Research
14:00-14:30	Devices and Networks for Future Embedded Mobile Internet
	Dr. Geng Wu, Intel Corp.
14:30-15:00	General Assembly
	Dr. Nigel Jefferies, WWRF Chair
15:00-15:30	WG reports and Close of meeting
	Dr. Nigel Jefferies, WWRF Chair