

IEEE ComSoc Society Radio Communications Committee (RCC)

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Minutes for the meeting held on June 11, 2015 IEEE ICC 2015, London, UK

1. Introduction

The Committee Chair Hanna Bogucka opened the Radio Communications Committee (RCC) meeting at 13:05pm. There were 53 members present, and a list of participants is attached at the end of these minutes together with some photos. The Chair presented the agenda:

1. Welcome/Introductions
2. Approval of Agenda
3. Approval of GC' 14 RCC Meeting Minutes (available on the website)
4. Conferment of 2015 IEEE ComSoc RCC Outstanding Service Award
5. Report on Conference/Workshop Activities
6. Report on Standards activities
7. Student Competition: Communication Technology May Change the World
8. New Business items
9. Next RCC meeting
10. Adjourn

2. Approval of the Agenda

The agenda was approved.

3. Approval of IEEE Globecom 2014 RCC Meeting Minutes

The minutes (circulated via RCC email list and website) were approved.

4. Conferment of 2015 IEEE ComSoc RCC Outstanding Service Award

The 2015 IEEE ComSoc RCC Outstanding Service Award was given to **Prof. Andrea Conti**.



5. Report on Conference/Workshops activities

Reports on the RCC sponsored conferences/workshops are available in the slides downloadable from the RCC website. Conferences/workshops and RCC representatives are listed below (see slides for details):

- **ICC 2015:** Santiago Mazuelas (WCS), Henk Wymeersch (SP)
- **GLOBECOM 2015:** Watcharapan Suwansantisuk (WCS), Norman Beaulieu(CRN)
- **GLOBECOM 2014:** Santiago Mazuelas (WCS), Alberto Rabbachin (CRN)
- **ISWCS 2015:** Jemin Lee
- **ICSPCS 2015:** Hans-Jurgen Zepernick

6. Report on Standard Activities

ComSoc Standards Board Technical Committee Liaisons Report

The RCC representative, *Dr. George Chrisikos*, prepared slides to report on standards activity. The ComSoc Standards Board (SB) objective is the discussion of IEEE/ComSoc standards, development projects, new standardization initiatives, procedures, and operational issues.

IEEE Communications Society (ComSoc) Standards Development Board (SDB)

- **Approved standards:**

- IEEE 269-2010: IEEE Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets, Handsets, and Headsets
- IEEE 269a-2012: IEEE Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets, Handsets, and Headsets - Amendment 1
- IEEE 661-1979: IEEE Standard Method for Determining Objective Loudness Ratings of Telephone Connections
- IEEE 1329-2010: IEEE Standard Method for Measuring Transmission Performance of Speakerphones
- IEEE 1652-2008: IEEE Standard for the Application of Free Field Acoustic Reference to Telephony Measurements
- IEEE 1902.1-2009: IEEE Standard for Long Wavelength Wireless Network Protocol
- IEEE 1903-2011: IEEE Standard for the Functional Architecture of Next Generation Service Overlay Networks (NGSON)
- IEEE 1904.1-2013: IEEE Standard for Service Interoperability in Ethernet Passive Optical Networks (SIEPON)
- **Active projects:**
 - P269: Standard for Measuring Electroacoustic Performance of Communication Devices
 - P1652a: IEEE Standard for the Application of Free Field Acoustic Reference to Telephony Measurements Amendment a: Updated diffuse field graph and tables
 - P1858: Standard for Camera Phone Image Quality (CPIQ) - co-sponsored with IEEE-SA Board of Governors (BOG) Corporate Advisory Group (CAG)
 - P1903.1: Standard for Content Delivery Protocols of NGSON
 - P1903.2: Standard for Service Composition Protocols of NGSON
 - P1903.3: Standard for Self-Organizing Management Protocols of NGSON
 - P1904.1-Conformance01: Standard for Conformance Test Procedures for SIEPON, IEEE Std 1904.1 Package A
 - P1904.1-Conformance02: Standard for Conformance Test Procedures for SIEPON, IEEE Std 1904.1 Package B
 - P1904.1-Conformance03: Standard for Conformance Test Procedures for SIEPON, IEEE Std 1904.1 Package C
 - P1904.2: Standard for Management Channel for Customer-Premises Equipment Connected to Ethernet-Based Subscriber Access Networks
 - P1906.1: Recommended Practice for Nanoscale and Molecular Communication Framework
 - P1907.1: Standard for Network-Adaptive Quality of Experience (QoE) Management Scheme for Real-Time Mobile Video Communications
 - P1908.1: Virtual Keyboard Standard for Indic Languages
 - P1910.1: Standard for Meshed Tree Bridging with Loop Free Forwarding
 - P2410: Biometrics Open Protocol Standard

Dynamic Spectrum Access Networks Standards Committee (DySPAN-SC)

- **Approved standards:**

- IEEE 1900.1-2008: IEEE Standard Definitions and Concepts for Dynamic Spectrum Access: Terminology Relating to Emerging Wireless Networks, System Functionality, and Spectrum Management
- IEEE 1900.1a-2012: IEEE Standard for Definitions and Concepts for Dynamic Spectrum Access: Terminology Relating to Emerging Wireless Networks, System Functionality, and Spectrum Management Amendment: Addition of New Terms and Associated Definitions
- IEEE 1900.2-2008: IEEE Recommended Practice for the Analysis of In-Band and Adjacent Band Interference and Coexistence Between Radio Systems
- IEEE 1900.4-2009: IEEE Standard for Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks
- IEEE 1900.4a-2011: IEEE Standard for Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks Amendment 1: Architecture and Interfaces for Dynamic Spectrum Access Networks in White Space Frequency Bands
- IEEE 1900.4.1-2013: IEEE Standard for Interfaces and Protocols Enabling Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Networks
- IEEE 1900.5-2011: IEEE Standard for Policy Language Requirements and System Architectures for Dynamic Spectrum Access Systems
- IEEE 1900.6-2011: IEEE Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and Other Advanced Radio Communication Systems
- IEEE 1900.6a-2014: IEEE Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and Other Advanced Radio Communication Systems - Amendment 1: Procedures, Protocols, and Data Archive Enhanced Interfaces
- **Active projects:**
 - P1900.1: Standard Definitions and Concepts for Dynamic Spectrum Access: Terminology Relating to Emerging Wireless Networks, System Functionality, and Spectrum Management
 - P1900.5.1: Standard Policy Language for Dynamic Spectrum Access Systems
 - P1900.5.2: Method for Modeling Spectrum Consumption
 - P1900.6-2011/Cor 1: IEEE Standard for Spectrum Sensing Interfaces and Data Structures for Dynamic Spectrum Access and Other Advanced Radio Communication Systems - Corrigendum 1
 - P1900.7: Radio Interface for White Space Dynamic Spectrum Access Radio Systems Supporting Fixed and Mobile Operation

Power Line Communication Standards Committee (PLC-SC)

- **Approved standards:**
 - IEEE 1775-2010: IEEE Standard for Power Line Communication Equipment - Electromagnetic Compatibility (EMC) Requirements - Testing and Measurement

Methods - co-sponsored with the IEEE Power and Energy Society (PES) Power System Communications Committee (PSCC)

- IEEE 1901-2010: IEEE Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications
- IEEE 1901.2-2013: IEEE Standard for Low Frequency (less than 500 kHz) Narrow Band Power Line Communications for Smart Grid Applications
- IEEE 1905.1-2013: IEEE Standard for a Convergent Digital Home Network for Heterogeneous Technologies
- IEEE 2030.5-2013: IEEE Adoption of Smart Energy Profile 2.0 Application Protocol Standard
- **Active projects:**
 - P1905.1a: Standard for a Convergent Digital Home Network for Heterogeneous Technologies Amendment: Support of new MAC/PHYs and enhancements
 - P1909.1: Recommended Practice for Smart Grid Communication Equipment - Test methods and installation requirements
 - P2030.5: Standard for Smart Energy Profile Application Protocol

All IEEE standard activities have been listed in RCC website at the link: http://committees.comsoc.org/TC_RC

7. ComSoc student competition program

ComSoc has launched a Student Competition Program, for graduate and undergraduate students. Please review details presented at:

<http://www.comsoc.org/communications-technology-changing-world>

The theme of the competition is "Communications Technology Changing the World". The RCC representative for the ComSoc Student Competition is Dr. Alberto Rabbachin at the European Commission, a.rabbachin@ieee.org

STUDENT COMPETITION 2014 RESULTS

- **FIRST PRIZE**
AVATARS: A Software Defined Radio based Teleoperating Cyber-Physical System for Disaster Environment Exploration
Li'an Li, Wenbin Yu, Yong Cao, Ziwen Yang, Youjie Xia - Shanghai Jiao Tong University
- **SECOND PRIZE (ex aequo)**
 - Nature-inspired Molecular Diffusion Communication Test-bed for Harsh Communication Environments, Siyi Wang, Nariman Farsad, Song Qiu - Institute for Telecomm. Research, University of South Australia
 - A System for Affordable Internet Access in Rural Developing Nations
Esther Jang, Jessica Fujimori - MIT

8. New Business Items

Best readings

www.comsoc.org/best-readings

List of papers (w/commentary and hyperlinks) online.

One new every quarter: power line communications; cognitive radio; broadband access; green communications multi-tier cellular networks.

Organization of Special Issues

Nominations for Awards

Soliciting nominations for Technical Recognition Award 2015 (deadline August 15, 2015).

Soliciting nominees for Technical Program Committee activities.

ComSoc Student Competition RCC representative (nominated for 2015): Dr. Alberto Rabbachin at the European Commission, a.rabbachin@ieee.org.

The RCC discussion group:

<http://community.comsoc.org/groups/radio-communications-technical-committee-rcc>

9. Next RCC meeting

The next RCC meeting will be scheduled in Globecom 2015, San Diego, CA USA.

10. Adjourn

The meeting was adjourned at 2.30 pm.

Attendees list

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Some photos taken during the meeting follow.

