IEEE Communications Society
TECHNICAL COMMITTEE
ON
Communications Quality & Reliability

http://www.comsoc.org/~cqr/index.html

Committee Meeting
CQR Chair: Chi-Ming Chen

May 13, 2009
CQR2009, Naples, Florida, USA
Agenda

• CQR Background and Activities
• Charter
• 2009 TC Events
  – Election (every 2 years)
  – Chairman’s Awards (every year)
  – TC Recertification (every 3 years)
• Strategic and Technical Programs
  – ICCs and GLOBECOMs
  – Planning of CQR2010
• Group Discussions
CQR Background and Activities (I)

- **CQR**: Technical Committee on Communications Quality & Reliability
- Established in 1986 as QAMC (Quality Assurance Management Committee)
- One of the 25 Technical Committees of IEEE Communications Society (ComSoc)


- IEEE is celebrating its 125th Anniversary today (May 13, 1884)

[IEEE logo]

Celebrating 125 Years of Engineering the Future
## ComSoc Technical Committees

<table>
<thead>
<tr>
<th>TC Cluster</th>
<th>Technical Committee (TC)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMMUNICATION SOFTWARE &amp; SERVICES (CS&amp;S)</strong></td>
<td>Communications &amp; Information Security (CIS-TC)</td>
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<tr>
<td></td>
<td>Communications Software (CommSoft)</td>
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<td></td>
<td>Information Infrastructure (TCII)</td>
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<td></td>
<td>Multimedia Communications (MMC)</td>
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<td></td>
<td>Network Operations and Management (CNOM)</td>
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<td><strong>COMMUNICATIONS/SIGNAL PROCESSING (C/SP)</strong></td>
<td>Communication Theory (CTTC)</td>
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<td>Data Storage (TCDS)</td>
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<td>Power Line Communications (BOPL) Broadband Over Power Lines</td>
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<td>Radio Communications (RCC)</td>
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<td></td>
<td>Satellite and Space Communications (SSC)</td>
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<td></td>
<td>Signal Processing and Communications Electronics (SPCE)</td>
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<td></td>
<td>Transmission, Access and Optical Systems (TAOS)</td>
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<tr>
<td><strong>NETWORKING (NET)</strong></td>
<td>Ad Hoc &amp; Sensor Communications &amp; Networks (AHSNTC)</td>
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<td>Cognitive Networks (TCCN)</td>
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<td>Communications Switching &amp; Routing (TC CSR)</td>
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<td>Computer Communications (TCCC)</td>
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<td></td>
<td>High-Speed Networking (TCHSN) - formerly Gigabit Networking</td>
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<td></td>
<td>Internet</td>
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<td></td>
<td>Optical Networking (ONTC)</td>
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<tr>
<td>**VERTICAL ISSUES IN COMMUNICATION SYSTEMS (VICS)</td>
<td>Communications Quality and Reliability (CQR)</td>
</tr>
<tr>
<td></td>
<td>Communications Systems Integration &amp; Modeling (CSIM)</td>
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<td></td>
<td>Enterprise Networking (EntNet)</td>
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<td></td>
<td>Tactical Communications and Operations</td>
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<td>Wireless Communications</td>
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</tbody>
</table>
CQR: Background and Activities (II)

• First workshop in 1986, Hotel LaSapinière, Val David, Quebec, Canada
• Holds annual international workshops, except 1996 and 2003
• Hosting the annual workshop is becoming very challenging (how to keep the cost down and still covers everything: Workshop, Hotel, Events, Meals)
• Three Committee Meetings each year:
  – Last one: GC’08, Dec. 2, New Orleans, USA
  – Today: CQR2009 Workshop, May 13, Naples, FL
  – Next one: ICC2009, Tuesday, June 16, Dresden, Germany,
CQR Charter

• Revised August 2006
• Focuses on and advocates worldwide communications quality and reliability on behalf of, and within, the Communications Society.
• Serves as the catalyst for global awareness and the exchange of information relative to technical and management-related aspects of communications quality and reliability. This also extends to security of the telecommunications network.
• CQR technical subject matter includes:
  I. Service Quality and Reliability
  II. Network Quality and Reliability
  III. Product and System Quality and Reliability
Officer Team (2008 – 2009)

Chair: Chi-Ming Chen
Chair Elect: Hiromi Ueda
Vice-Chair-Operations: Hideaki Yoshino
Vice-Chair-Programs: Peter Hoath
Vice-Chair-Publications: Anil Macwan
Secretary: Go Hasegawa
Treasurer: Kevin Krantz

Advisory Board

Kenichi Mase (Advisory Board Chair)
Karl Rauscher (Advisory Board Chair Emeritus)
Koichi Asatani
Kelly Krick
Raymond Bonelli
2009 Election

- Positions for election (2010-2011 Term)
  - (Current Chair Elect becomes Chair)
  - Chair Elect
  - Vice-Chair-Operations
  - Vice-Chair-Programs
  - Vice-Chair-Publications
  - Secretary
  - Treasurer

- Chair of the Advisory Board to conduct the election
- Ballots to be sent by email
- List of Members is being updated for correct email addresses
- Election results will be announced in GC09 TC meeting
CQR Chairman’s Awards

• Established in 2004
• Criteria upon which recipients were selected include:
  – sustained contributions in the field of Quality, Reliability & Security of communications services, networks or systems;
  – a demonstration of the core value of a professional society- adding value to others; and
  – integrity consistent with that of a role model
• Nominated by CQR Officers and Members of the Advisory Board with nomination material
• Number of recipients 2004-2009: 5, 5, 3, 4, 2, 3
TC Recertification

• All Communications Society (ComSoc) TCs are subject to recertification every 3 years
• Last time was in 2006; Will be recertified this year
• Long list of 31 questions to be answered
• Result can be pass (with suggestions to improve) or on probation
• CQR TC is very active in ComSoc. Passing the recertification is expected
Strategic and Technical Programs

• Strategic (Industry Focused)
  – Annual International Workshops
  – Special Hot Topic Workshops

• Technical (Academia Focused)
  – ICC
  – GLOBECOM

• Combined
  – Technical track in the annual workshop (*Best Paper Award*; Accepted papers will be on IEEE Xplore)
  – Publications (e.g., ComMag)
An Example of Hot Topic Workshop
Priority Communications

• **Where & When:** Bratislava, Slovakia, September 23, 2008

• **Purpose:** to advance the technical and policy understanding associated with the implementation of a *priority communications capability over public communications networks*

• Such a capability was presented in 2007 as a recommendation of the European Commission-sponsored Study on the Availability and Robustness of Electronic Communications Infrastructures (ARECI) and has since been well received by government and industry stakeholders in Europe and elsewhere

• The workshop ended with two focus groups examining issues related to: 1) Reliability and Security of Priority Communications and 2) Future Priority Communications

• The Workshop material is available on [http://www.comsoc.org/~cqr/Slovakia.html](http://www.comsoc.org/~cqr/Slovakia.html)
### QoS, Reliability, Perf Modeling Symposia of ICCs and GCs

<table>
<thead>
<tr>
<th>Year</th>
<th>ICC</th>
<th>GLOBECOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>5/19-23, Beijing, China Hiromi Ueda</td>
<td>11/30 – 12/4, New Orleans Toshinori Tsuboi 坪井利憲</td>
</tr>
<tr>
<td>2009</td>
<td>6/14-18, Dresden, Germany Hiromi Ueda</td>
<td>11/30 – 12/4, Honolulu Hajime Nakamura 中村 元</td>
</tr>
<tr>
<td>2010</td>
<td>5/23-27, Cape Town, South Africa Toshinori Tsuboi</td>
<td>12/6-10, Miami Hideaki Yoshino</td>
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<tr>
<td>2011</td>
<td>6/5-9, Kyoto, Japan Toshinori Tsuboi</td>
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</tbody>
</table>

- With Communications Systems Integration & Modeling (CSIM) TC
- Additionally for GC’09, Chi-Ming Chen is serving as the Business Forums Chair, and Hiromi Ueda is the Asia Pacific Publicity Chair
## Statistics of Papers

<table>
<thead>
<tr>
<th>Conf.</th>
<th>Submitted</th>
<th>Accepted</th>
<th>A/S Ratio</th>
<th>Organization (presentation sessions and poster sessions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC2008</td>
<td>221</td>
<td>74</td>
<td>33.5%</td>
<td>(10, 3)</td>
</tr>
<tr>
<td>GC2008</td>
<td>198</td>
<td>71</td>
<td>35.8%</td>
<td>(10,2)</td>
</tr>
<tr>
<td>ICC2009</td>
<td>178</td>
<td>63</td>
<td>35.4%</td>
<td>(9,1)</td>
</tr>
<tr>
<td>GC2009</td>
<td>213</td>
<td>*</td>
<td></td>
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</tbody>
</table>

* • Review is underway  
• Acceptance to be discussed in ICC2009, Dresden, June 14-18, 2009  
• Acceptance notification date: July 1, 2009
Planning of CQR2010 Workshop

Dates: June 8 – 10, 2010
Place: The Westin Bayshore, Vancouver (proposed)
  1601 Bayshore Drive
  Vancouver, British Columbia V6G 2V4 · Canada
  http://www.westin.com/bayshore

General Program Co-Chairs:
  James Runyon, Alcatel-Lucent
  Martin Guldberg, Verizon Wireless

Technical Program Chair and Secretary:
  Prof. Y. Ishibashi 石橋 豊, Nagoya Institute of Tech.
  Prof. S. Sugawara 菅原真司, Nagoya Institute of Tech.

Workshop URL http://www.ieee-cqr.org/ (to be constructed after CQR2009)
CQR2010 Technical Program Status

• Invitations to TPC members have been sent
• Call For Paper (CFP) is being drafted
• Plan to distribute the CFP in ICC2009, Dresden, June 14-18
Workshops beyond 2010

- China
- Japan (1994, 2002, when and where)
- Hawaii
- Other US locations