IEEE Communications Society
Quantum Communications and Information Technology - ETC
(QCIT-ETC)

Meeting at ICC 2018

Place/Room: Presidents
Westin Kansas City at Crown Center
Date/Time: May 21, 2018, 14:30pm – 15:30pm
Kansas City
Mission

The Emerging Technical Committee (ETC) on Quantum Communications and Information Technology (QCIT) promotes all types of communications theory and engineering to foster quantum technology. Our field of interests start from the basic radio frequency technology, addresses aspects of control instrumentation, error correction, coding theory, system architecture, simulation, algorithms, and eventually applications. The committee will connect people from Industry and Academia by supporting conferences, symposia, technical sessions, publications, etc., where information is exchanged within the scope of interest of the QCIT-ETC.
Meeting Agenda

1. Approval of the Agenda
2. Welcome / Introduction
3. Approval of Previous Meeting Minutes
4. QCIT-ETC Awards
5. Report on ETC Technical Activity Council Meeting
6. Report on Workshops & Conferences
7. Report on Keynotes & Invited Talks
9. Standards Liaison
10. New Business Items
11. Next QCIT-ETC Meeting
12. Adjourn

May 2018
QCIT-ETC Meeting at IEEE ICC 2018
2. Welcome / Introduction I

QCIT-ETC Officers

Chair: Lajos Hanzo (U. of Southampton, UK)
Vice-Chair: Peter Mueller (IBM Zurich Research Lab, Switzerland)
Secretary: Andrea Conti (U. of Ferrara, Italy)
Standards and Media: Michael Ng (U. of Southampton, UK)

Membership: 300+
2. Welcome / Introduction II

The QCIT-ETC website:

- [http://qcit.committees.comsoc.org/](http://qcit.committees.comsoc.org/)
- Two mail distribution lists:
  - [qcit@comsoc.org](mailto:qcit@comsoc.org)
    - Internal announcements only
    - ICC, Globecom, Committee meetings like today, Awards
  - [qcit-announce@comsoc.org](mailto:qcit-announce@comsoc.org)
    - CFP email distribution list
    - Open to all signed-up members to distribute QCIT related CFPs

Sign-up: Send “join QCIT(-ANNOUNCE)” message to [list@comsoc.org](mailto:list@comsoc.org)
Unsubscribe: Send “SIGNOFF QCIT” message to [list@comsoc.org](mailto:list@comsoc.org)
3. Approval of Previous Meeting Minutes

The last QCIT meeting was held at IEEE Globecom 2017 in Singapore.

The meeting minutes and slides are published on the QCIT URL (use tab “Meetings”):

http://qcit.committees.comsoc.org/
4. QCIT-ETC Awards

The QCIT-ETC award program will start as soon as we receive approval from the ETC TAC.

Acting Awards Committee Chair is the elected QCIT-ETC Chair.

Members of the Awards Committee will be the Awards Committee Chair, three QCIT officers, one external member.

Calls for nominations as defined in the QCIT-ETC Policies & Procedures will be sent out via our distribution list. For details, see QCIT URL:

http://qcit.committees.comsoc.org/
5. Report on ETC-TAC Meeting

From ETC-TAC Meeting at Globecom 2017

QCIT was started since about a couple of years. It was reviewed together with all ETCs and put on probation (come back in two years).

There will be a new review by ICC 2018 and it is important to increase the number of members and of the activities.
6. Report on Workshops & Conferences

Since last meeting:

International Workshop on Quantum Communications for Future Networks (QCFN) 2017, IEEE VTC 2017 Spring, Sydney, Australia, 4-7 June 2017.

Workshop on Quantum Communications and Information Technology (QCIT17) at IEEE Globecom17, Singapore, 4-8 December 2017.

Please use the QCIT-ANNOUNCE distribution list to send your CFPs and report your special issues, book chapters, and so on.

QCIT is actually looking for a member who would be willing to serve in the position of an Appointed Representative of Publications. If you are interested, please contact the newly elected officers.
7. Report on Keynotes & Invited Talks

Invited talk on Quantum-assisted Communications at Tsinghua University Beijing, China, on 26th October 2017. URL: http://www.phys.tsinghua.edu.cn/publish/phy/8220/2017/20171024140011262894960/201710241400112.html

Invited Talk on Quantum-assisted Communications at UESTC Chengdu, China, on 3rd November 2017. URL: http://files.wireless.ecs.soton.ac.uk/QCIT-ETC/20171103 UESTC talk/tn/UESTC 01 Hu Ng Yang.JPG.html


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• Special session on quantum communications at EUSIPCO 2016 in Budapest;
• ComSoc Information Theory Workshop’17 Invited Lecture
• http://ctw2017.ieee-ctw.org/
• UK COMMNET Workshop, 11th of January 2018, Durham University UK: When Quantum-Signal Processing and Communications Meet https://www.dur.ac.uk/ccs/coms systems events/
9. Standard Liaison

The QCIT-ETC is supporting standards work within the field.

IEEE SA - 1913 - Software-Defined Quantum Communication
http://standards.ieee.org/develop/project/1913.html
IEEE SA - 1913 - Software-Defined Quantum Communication IEEE.org IEEE Xplore Digital Library IEEE Standards...
Liaison: Steven Bush (bushsf@research.ge.com)

IEEE SA - 7131 - Standard for Quantum Computing Performance Metrics & Performance Benchmarking
http://standards.ieee.org/develop/project/7131.html
IEEE SA - 7131 - Standard for Quantum Computing Performance Metrics & Performance Benchmarking IEEE.org IEEE Xplore...
Liaison: Peter Mueller (pmu@zurich.ibm.com)

IEEE SA - 7130 - Standard for Quantum Computing Definitions
http://standards.ieee.org/develop/project/7130.html
IEEE SA - 7130 - Standard for Quantum Computing Definitions IEEE.org IEEE Xplore Digital Library IEEE...
Liaison: Peter Mueller (pmu@zurich.ibm.com)
10. New Business Items

QCIT Workshop at IEEE Globecom 2018
Submission deadline: Jul 15, 2018

Worldwide Large Regional Programs
- US IARPA and others
- China Secure Backbone
- EU Flagship and Quantera

European Efforts:
11. Next QCIT-ETC Meeting & Workshop

The next IEEE ComSoc’s Quantum Communications and Information Technology ETC (QCIT-ETC) meeting and the annual Workshop will be held at

IEEE Globecom 2018,
December, 9-13, 2018, Abu Dhabi, UAE
12. Adjourn

Thank you for attending!