IEEE Communications Society

Overview

February 2013

J. Roberto B. de Marca
2000-2001 IEEE ComSoc President
IEEE President Elect
IEEE Communications Society

- ... a diverse group of international communications professionals with a common interest in advancing all communications technologies.

- Toward that end it sponsors publications, conferences, educational programs, local activities, and technical committees that:
  - Foster original work in all aspects of communications.
  - Encourage applications for voice, data, image, and video communications and the integration of computing and communications.
  - Promote the theory and development of end-to-end communications networking and systems.
  - Advance communications infrastructure and technologies for systems including the Internet, personal communications, multimedia communications, enterprise networks, and optical communications.
Communications Society Vision

To be the organization of choice for communications and related professionals throughout the world

- World-leading membership services
- Professional values, diverse volunteerism and sound management
- Magnet for presentation and debate attracting the best people and the best work in the world
- Financial strength with defined strategic directions
- Agility and response to member needs in a timely fashion
Virtual Communications Society

- The expanded and extended community of communications industry professionals sharing the common interest of advancing communications technologies.
  - Serving member and nonmember needs
  - Interacting extensively with ComSoc's Information Gateway
  - Offering electronic publication
  - Developing online education and reference
  - Facilitating electronic attendance
  - Supporting electronic commerce
  - Fostering global collaboration
A Long History Of Growth

- 1952 IRE Professional Group on Communications Systems (PGCS)
- 1964 IEEE Group on Communications Technology (ComTech) – 4,400
- 1972 IEEE Communications Society (ComSoc) – 8,800
A Global Community

- **US**: 78 Chapters (40%)
- **Asia/Pacific**: 44 Chapters (24%)
- **Europe/Middle East/Africa**: 54 Chapters (26%)
- **Canada**: 15 Chapters (4%)
- **Latin America**: 25 Chapters (6%)
Member Profile: Employment

- Educational Institutions: 31%
- Private Industry: 37%
- Students: 3%
- Self-Employed/Consulting: 5%
- Public/Gov't: 5%
- All Other*: 5%

*All Other includes retired and unemployed.
**Revenue** ($17 million budget)

- Conferences: 51%
- Publications (including advertising): 38%
- Membership & Marketing: 6%
- Programs: 8%
- Administration: 19%
- Publications: 18%
- Dues: 7%
- Other: 4%

**Expenses**

- Conferences: 48%
Publications

- IEEE Communications Magazine
  - Global Communications Newsletter
  - Optical Communications
  - Radio Communications
- IEEE Wireless Communications Magazine
- IEEE Network: The Magazine of Global Internetworking
- IEEE Transactions on Communications
- IEEE Journal on Selected Areas in Communications
- IEEE Communications Letters
- IEEE Transactions on Wireless Communications
- IEEE Wireless Communications Letters
- IEEE/ACM Transactions on Networking
- IEEE Transactions on Network and Service Management
- IEEE Transactions on Multimedia
- IEEE Transactions on Mobile Computing
- IEEE/OSA Journal of Lightwave Technology
- IEEE/OSA Journal of Optical Communications and Networking
On Line Publications Presence

- ComSoc Digital Library (and Digital Library Plus)

- IEEE Communications Magazine
  - Digital delivery – page turning pdf edition

- Online Only Publications
  - IEEE Communications Surveys and Tutorials
  - IEEE Transactions on Network and Service Management (TNSM)

- ComSoc e-News
  - Free monthly message to members and requesters

- ComSoc Webinars
  - Irregularly scheduled real time events on specific topics
On Line Publications Presence

- IEEE Wireless Communications Professional
  - Free bi-monthly newsletter for those interested in WCET certification
- Tutorials Now
  - Online full and half-day tutorials, originally presented at ComSoc conferences
- ComSoc Webcasts
  - Live webcasts of selected sessions/keynotes from ComSoc conferences
- ComSoc Best Readings
  - Collections of books, articles, and papers on a featured topic
- ComSoc Technology News (CTN)
  - Summaries of interesting papers and articles from ComSoc pubs
- Communications Society journals and transactions also available electronically through IEEE’s www site – Xplore
Major Conferences

IEEE GLOBECOM
Global Communications Conference
(November/December) Attendance 1500-2000

MILCOM
Military Communications Conference
Joint with AFCEA (Managing Partner)
(October) Attendance 2000-2500

NOMS
IEEE/IFIP Network Operations and Management Conference -- even years (April) Attendance 500

IM
International Symposium on Integrated Network Management -- odd years (May)

SECON
Conference on Sensor and Ad Hoc Communications and Networks
(October)

IEEE DYSPAN
Symposium on Dynamic Spectrum Access Networks
(April)

IEEE ICC
International Conference on Communications
(May/June) Attendance 1500-2000

OFC/NFOEC
Optical Fiber Communication Conf./National Fiber Optics Engineers Conf.
Joint with Photonics Society and OSA (Managing Partner)
(March) Attendance 15,000+

WCNC
Wireless Communications and Networking Conference
(March) Attendance 450

IEEE INFOCOM
International Conference on Computer Communications
(May) Attendance 700

CCNC
Consumer Communications and Networking Conference (January) Attendance 300+

PIMRC
International Symposium on Personal, Indoor and Mobile Radio Communications
(September)

In addition, ComSoc sponsors or cosponsors an average of 60+ conferences, symposiums and workshops each year.
Technical Activities

Len Cimini, Vice President

Technical Committees

www.comsoc.org/about/committees/Technical

- Ad Hoc & Sensor Networks
- Cognitive Networks
- Communications & Information Security
- Communications Quality & Reliability
- Communications Software
- Communications Switching & Routing
- Communications Systems Integration & Modeling
- Communication Theory
- Computer Communications
- Data Storage
- e-Health
- High-Speed Networking
- Information Infrastructure & Networking
- Internet
- Multimedia Communications
- Network Operations & Management
- Optical Networking
- Power Line Communications
- Radio Communications
- Satellite & Space Communications
- Signal Processing & Communications Electronics
- Tactical Communications & Operations
- Transmission, Access & Optical Systems
- Wireless Communications
IEEE WCET® Certification
Wireless Communication Engineering Technologies

- 2013 Spring exam window: 7 Apr – 4 May
  - Fall exam window: 29 Sep – 2 Nov
- 80 page Candidate’s Handbook available
  - Print and/or pdf
- IEEE WCET® WWW site: Apply, Learn More, Resources
- Bi-monthly IEEE Wireless Communications Professional ® e-newsletter
- Practice Exam Raffle at conferences and trade shows
- Online Tutorials available; ComSoc training
Courses focus on practicing wireless communications

1, 3, 5-day wireless communications training – derived from WCET certification

5-day virtual intensive course on wireless communications engineering – maximum 75 seats – most popular; scheduled several times in 2013; early bird pricing; includes WEBOK and handout (400+ slides); 2 hours in am and 2 hrs in pm; positive audience feedback

3 day live events

1 day in-person courses with events; 4G World; IWCE

1 day virtual courses

New courses on M2M, SON – Self Organizing Networks, VoLTE

Additional professional development courses coming
Contact: Mehmet Ulema -- m.ulema@ieee.org

- Distinguished Lecturers/ Speakers Programs
  - Designated speakers available to speak at Chapter and Section functions.

- Chapter Achievement Awards
  - Selected chapters will be recognized through plaques and monetary awards. Interested Chapter Chairs must complete the annual Chapter Questionnaire.

- Chapter Funding for Activities
  - Funding to assist ComSoc Chapters in their activities.

- Membership Development Support Grants (MDSG)
  - Funding for initiatives to facilitate membership development.
Career Awards

IEEE Communications Society

- Edwin Howard Armstrong Achievement Award
- Distinguished Industry Leader Award
- Industrial Innovation Award
- Award for Public Service in the Field of Telecommunications
IEEE Communications Society

- Donald W. McLellan Meritorious Service Award
- Harold Sobol Award for Exemplary Service to Meetings & Conferences
- Joseph LoCicero Award for Exemplary Service to Publications
- IEEE ComSoc/KICS Exemplary Global Service Award
Paper Awards

- IEEE Communications Society
  - Best Tutorial Paper Award
  - Fred W. Ellersick Prize
  - Heinrich Hertz Award for Best Communications Letter
  - Leonard G. Abraham Prize in the Field of Communications Systems
  - Stephen O. Rice Prize in the Field of Communications Theory
  - William R. Bennett Prize in the Field of Communications Networking
  - Award for Advances in Communication

- IEEE Communications Society/Information Theory Joint Paper Award

- IEEE Marconi Prize Paper Award in Wireless Communications
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<th>Country</th>
<th>Society Name</th>
<th>Description</th>
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ComSoc Social Media

Likes • Followers • Members
A Unique Social Network Community with Communications Technical Interest

Total Likes: 170,000+
Total Followers: 4,600+
Total Members: 7,700+

51 locations; 250,000 connectors
How to Reach Us

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e-mail: society@comsoc.org
GRACIAS
MUITO OBRIGADO
THANKS
Member Profile: Grade

- Members: 63%
- Senior Members: 10%
- Fellows: 2%
- Associates: 4%
- Students: 9%
- Affiliates: 3%
- Graduate Students: 9%
Provided as a service to our local chapters, Distinguished Lecture Tours and individual Distinguished Speakers can be arranged in response to a request from one or more Chapter Chairs. They may also be initiated by Regional Directors, the Director – Membership Programs Development, or the Vice President – Member Relations. Although tours and individual lectures are organized to benefit existing members and Chapters, they can also be effective in generating membership and encouraging new chapter formation.

Lecture tours will be supported as the budget allows in each of our four Regions: Asia/Pacific, Europe/Middle-East/Africa, Latin America, and North America. The Director in each region plays a key role as facilitator.

For more information go to www.comsoc.org and “About ComSoc;” scroll to Member Programs; then Distinguished Lecturers.