

IEEE Communications Society

Overview

April 2011

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**

Communications Society Mission

The IEEE Communications Society promotes the advancement of science, technology and applications in communications and related disciplines. It fosters presentation and exchange of information among its members and the technical community throughout the world. The Society maintains the highest standard of professionalism and technical competency.

Strategic Elements

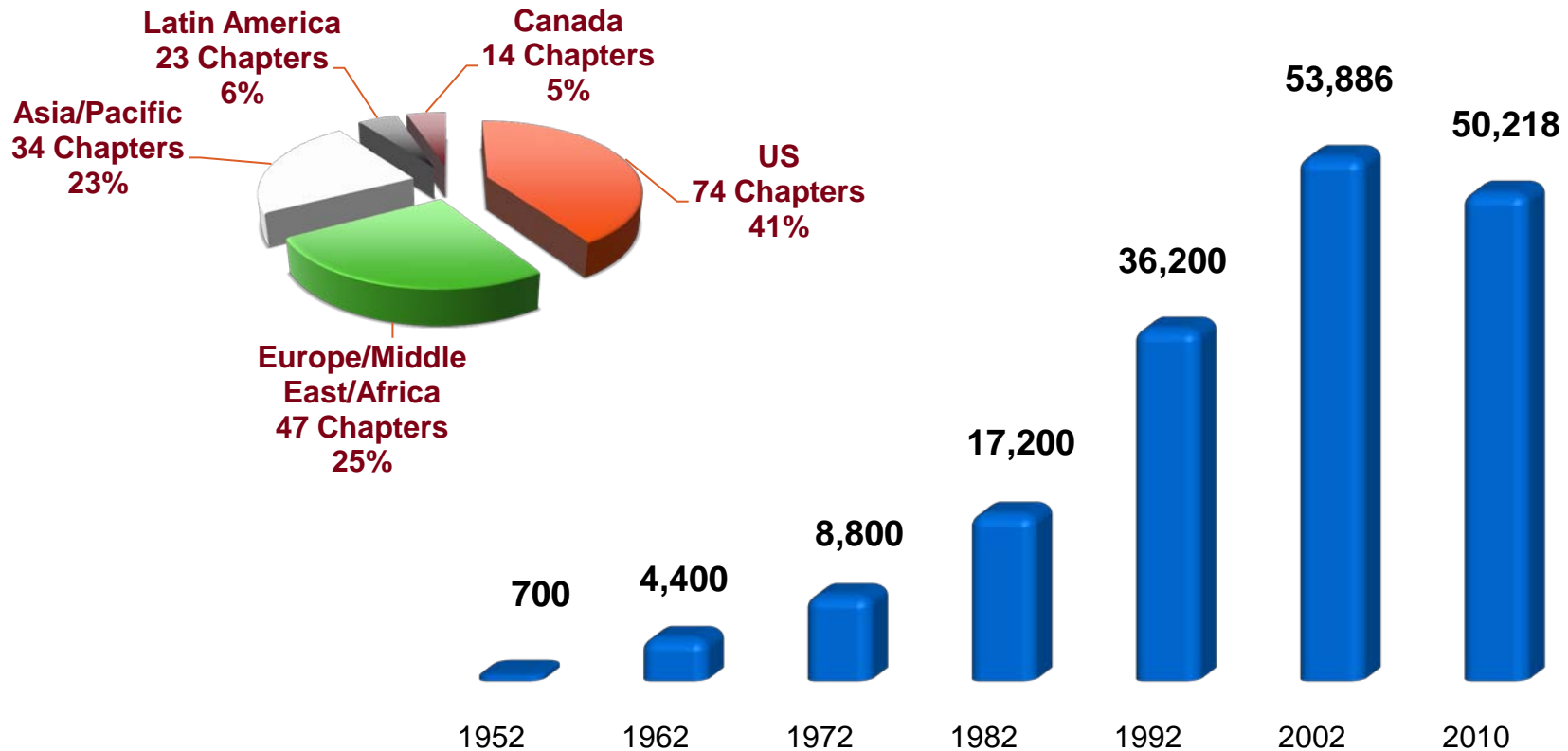
- ❖ **Agility in response to member needs and world industry dynamics**
- ❖ **Applications of electronic processes**
 - ❖ **Web, CD-ROM, other**
 - ❖ **Electronic attendance**
 - ❖ **Electronic commerce**
- ❖ **Information Gateway**
- ❖ **Experimental Innovation**
- ❖ **Membership “stretch” goals**
- ❖ **Accelerated globalization in all aspects**
- ❖ **Partnership with the world industry**
- ❖ **Cooperation with the IEEE Computer Society/other IEEE Societies/Sister-Societies**
- ❖ **Health of the parent organization and its smaller Societies**

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**

Membership



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

Member Employment

Self-Employed/Consulting 8%

Public/Gov't 8%

All Other 6%

Students 14%

Private Industry 45%

Educational Institutions 19%

Members by Grade

All Other includes retired and unemployed.

Graduate Students 10%

Students 10%

Affiliates 1%

Associates 4%

Fellows 2%

Senior Members 10%

Members 62%

Revenue *(\$17 million budget)*

Dues 7%
Other 2%

Publications
(including
advertising)
39%

Conferences
52%

Membership &
Marketing
6%

Programs
8%

Administration
19%

Publications
18%

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/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

- ❖ **ComSoc Digital Library (and Digital Library Plus)**
(electronic access [pdfs/html] to ComSoc periodicals & proceedings; search & display metadata via the CommOntology, US Patent citations)
- ❖ **IEEE Communications Interactive** (electronic html edition of *IEEE ComMag*)
- ❖ **IEEE Wireless Communications Interactive**
(electronic html edition of *IEEE Wireless Communications Magazine*)
- ❖ **IEEE Network Interactive** (electronic html edition of *IEEE Network Magazine*)
- ❖ **IEEE Communications Surveys and Tutorials** (online only publication)
- ❖ **IEEE Transactions on Network and Service Management (TNSM)**
(online only publication)
- ❖ **ComSoc e-News** (free monthly message to members and requesters)
- ❖ **ComSoc Webinars** (irregularly scheduled real time events on specific topics)
- ❖ **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)

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 (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 Engineering Conf.
Joint with LEOS 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.

How to Become a Member

To join the IEEE and/or the Communications Society, complete the on-line application or request an application form via:

web: www.comsoc.org or www.ieee.org

e-mail: new.membership@ieee.org

tel: +1 800 678 IEEE (USA or Canada)

+1 732 981 0060 (worldwide)

fax: +1 732 981 0225

mail: IEEE Admissions and Advancement

445 Hoes Lane, P.O. Box 6801

Piscataway, NJ 08854-6801 (USA)

Technical Activities

Mark Karol, Vice President

Technical Committees

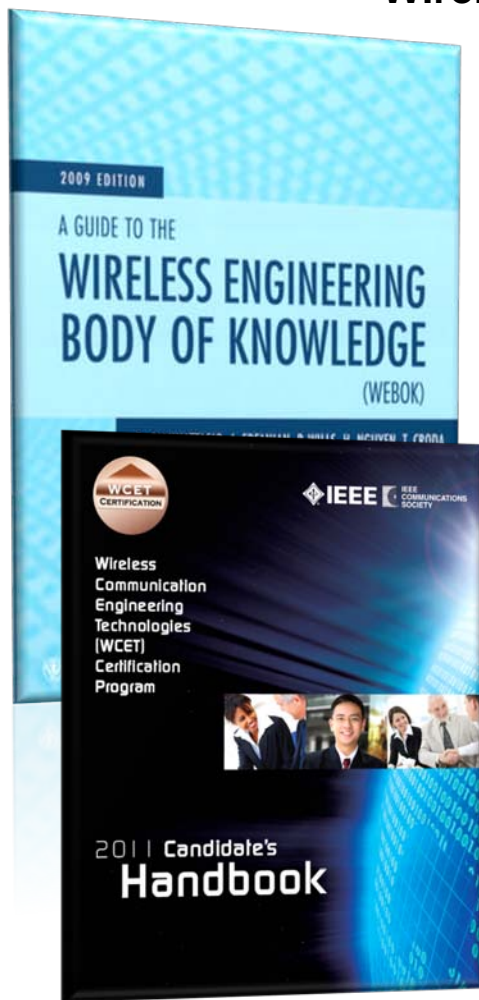
<http://www.comsoc.org/about/committees/Technical>

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 and Management
Optical Networking
Power Line Communications
Radio Communications
Satellite and Space Communications
Signal Processing & Communications Electronics
Tactical Communications & Operations.
Transmission, Access & Optical Systems
Wireless Communications

IEEE WCET[®] Certification

Wireless Communication Engineering Technologies



- ❖ 2011 Fall exam window: 2 – 29 Oct 2011
- ❖ 76-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
- ❖ 252 page Guide to the Wireless Engineering Body of Knowledge (WEBOK) published and available via John Wiley

Training



- ❖ **New program; new source of revenue**
- ❖ **1, 3, 5-day wireless communications training - same material as WCET certification**
- ❖ **5-day virtual intensive course on wireless communications engineering – maximum 75 seats – most popular; scheduled for 4 times in 2011; January, March, 2 more in fall; popular - sells out; 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 courses with events; 4G World; IWCE; INFOCOM**
- ❖ **Chapters can license slides**
- ❖ **More courses coming; 1 day virtual courses**

Membership Development

Distinguished Lecturers/ Speakers Programs

Designated speakers available to speak at Chapter and Section functions.

Contact: *Shri Goyal*
email: *shrikgoyal@gmail.com*

Chapter Achievement Awards

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

Contact: *Shri Goyal*
email: *shrikgoyal@gmail.com*

Chapter Funding for Activities

Funding to assist ComSoc Chapters in their activities.

Contact: *Shri Goyal*
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Membership Development Support Grants (MDSG)

Funding for initiatives to facilitate membership development.

Contact: *Shri Goyal*
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Awards

Career Awards

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

Service Awards

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

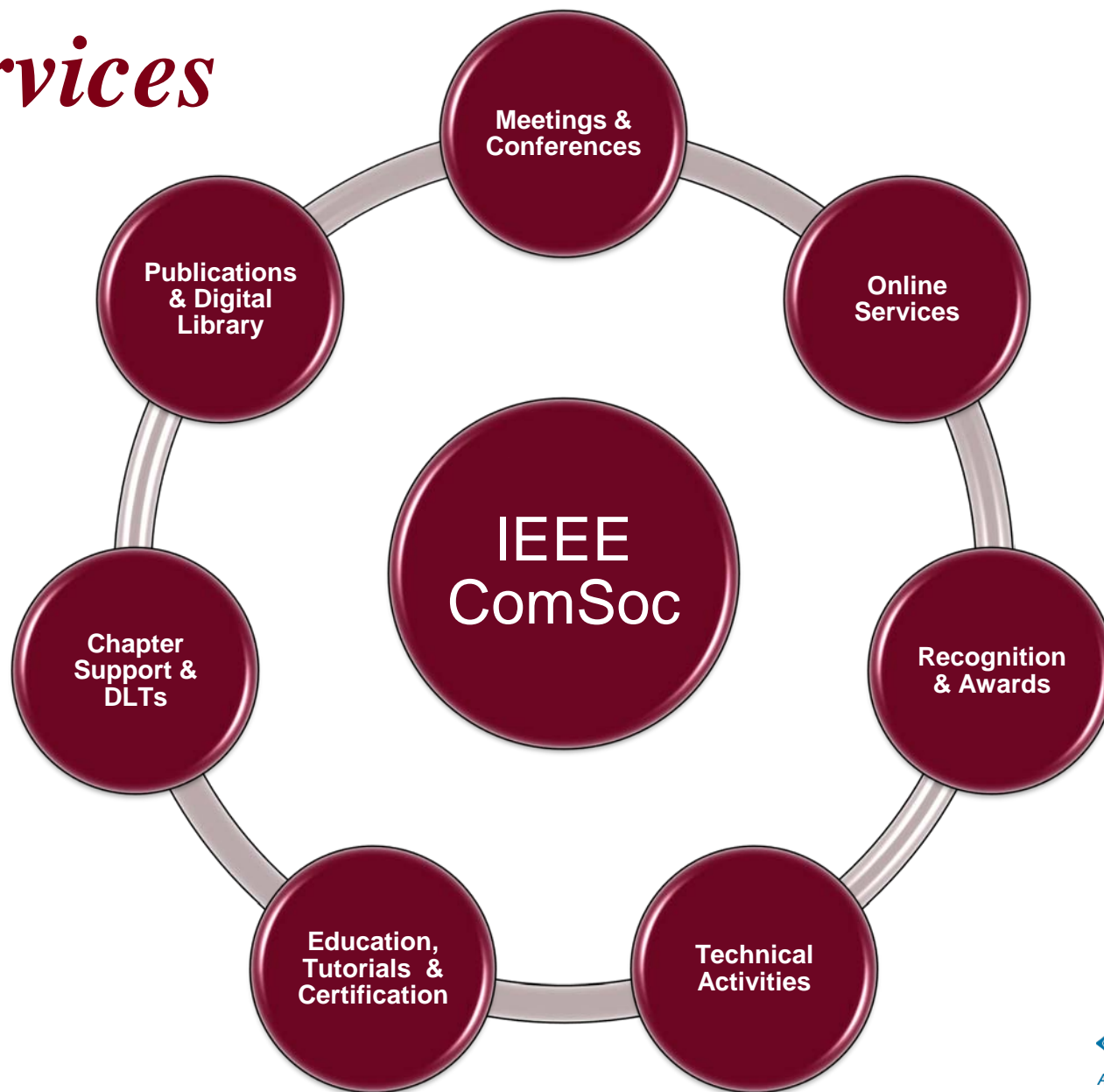
Paper Awards

The Communications Society Best Tutorial Paper Award
The Communications Society Fred W. Ellersick Prize
The IEEE Communications Society Heinrich Hertz Award for Best Communications Letter
The Communications Society Leonard G. Abraham Prize in the Field of Communications Systems
The Communications Society Stephen O. Rice Prize in the Field of Communications Theory
The Communications Society William R. Bennett Prize in the Field of Communications Networking
IEEE Communications Society/Information Theory Joint Paper Award
IEEE Marconi Prize Paper Award in Wireless Communications
IEEE ComSoc Award for Outstanding Paper on New Communication Topics

Sister Societies & Related Societies

Internet Society (ISOC)	Belgium (FITCE) Federation of Telecommunications Engineers	Malta (CoE) Chamber of Engineers in Malta	Malaysia (IEM) The Institution of Engineers, Malaysia
Optical Society of America (OSA)	France (SEE) Société de l'Electricité, de l'Electronique et des Technologies de l'Information et de la Communication	Arab (AIU) Arab Information Union	Singapore (SCS) Singapore Computer Society
Association for Computer Machinery (ACM)	Germany (VDE) Verband der Elektrotechnik Elektronik Informationstechnik	Russia (POPOV) The Russian Scientific & Technical A.S. Popov Society for Radio Engineering, Electronics, and Communications	Korea (KICS) Korean Information & Communication Society
Pacific Telecommunications Council (PTC)	Croatia (CCIS) Communications and Information Society	Latvia (LITKA) Latvijas Informācijas Un Komunikācijas Technoloģijas Asociācijas	Japan (IEICE) The Institute of Electronics Information and Communication Engineers
EastWest Institute (EWI)	Slovenia (EVS) The Electrotechnical Association of Slovenia	China (CIC) China Institute of Communications	Taiwan (CIEE) Chinese Institute of Electrical Engineering
IEEE Societies (CS, SPS, CAS, LEOS, PES, MTT)	Czech Republic/Slovakia (SR) Czech and Slovak Society for Radioengineering	China (CIE) The Chinese Institute of Electronics	Vietnam (REV) The Radio & Electronics Association of Vietnam
United Kingdom (IIC) International Institute of Communications (IIC)	Hungary (HTE) The Scientific Association for Infocommunications	India (CMAI) Communication & Manufacturing Association of India	South Africa (SAIEE) The South African Institute of Electrical Engineers
Brazil (SBRT) Sociedade Brasileira de Telecomunicações	Italy (AICA) Associazione Italiana per l'Informatica ed di Calcolo Automatico	India (IETE) The Institute of Electronics and Telecommunications Engineers	
	Italy (AICT) Association for Information and Communications Technology	Morocco (MAEECE) Moroccan Association of EE & CE	
	Israel (SEEEI) Society of Electrical & Electronics Engineers in Israel		

Services



Distinguished Lecturers/Speakers Program

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-Africa-Middle-East, 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.

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Byeong Gi Lee**



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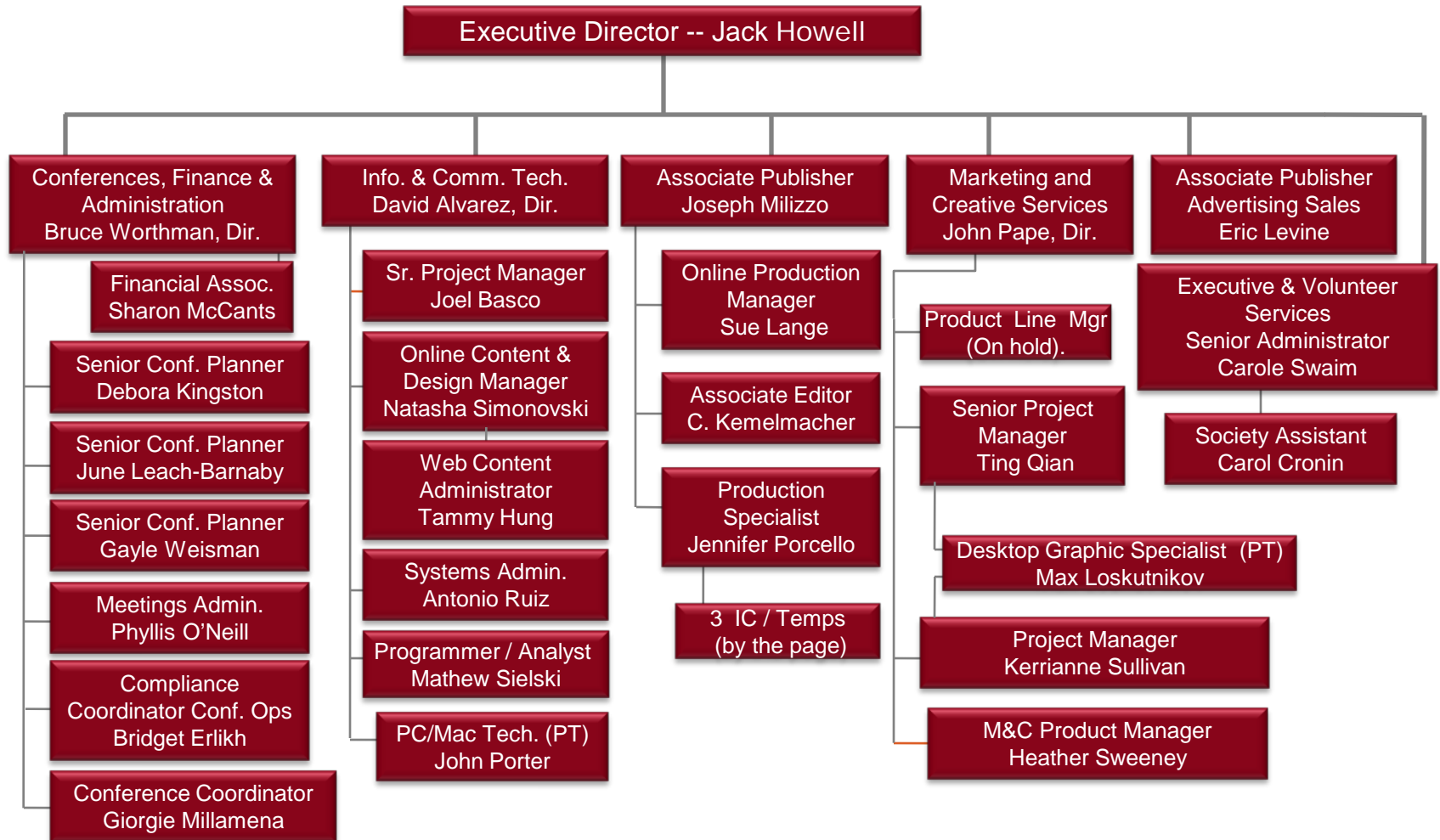
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