

# IEEE – The Organization

04

**Twin Cities Section  
Officer & Volunteer  
Training 2014**

# IEEE is: *the World's largest technical professional society*



**Members**  
**430,000**

**Countries**  
**160**

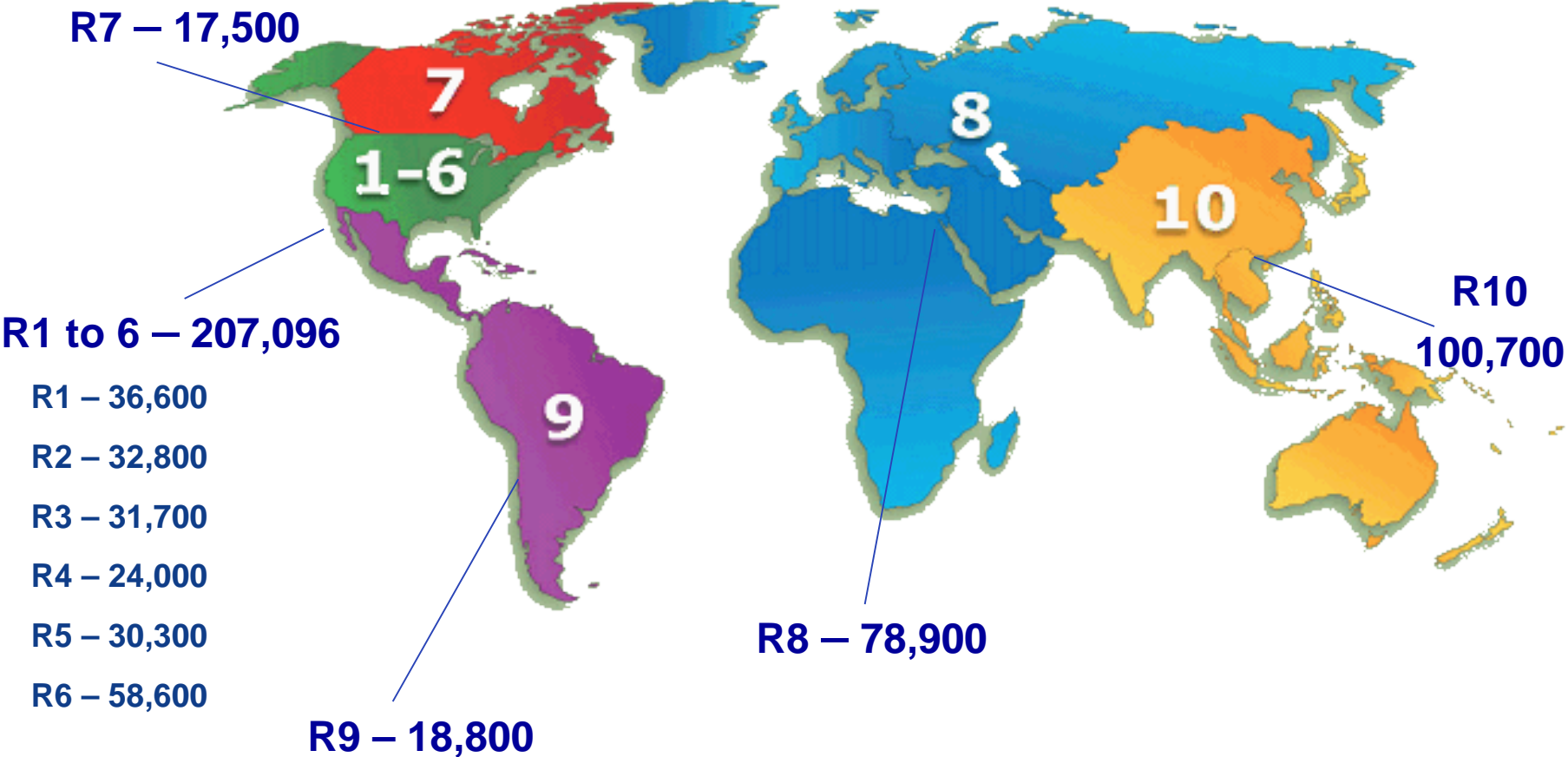
**Xplore**  
**Over 3,000,000**

**Conferences**  
**1500+ per year**

**Tech**  
**38 / 7**  
**Standards Councils**

**Standards**  
**1,000 Active Standards**

# Membership by Region

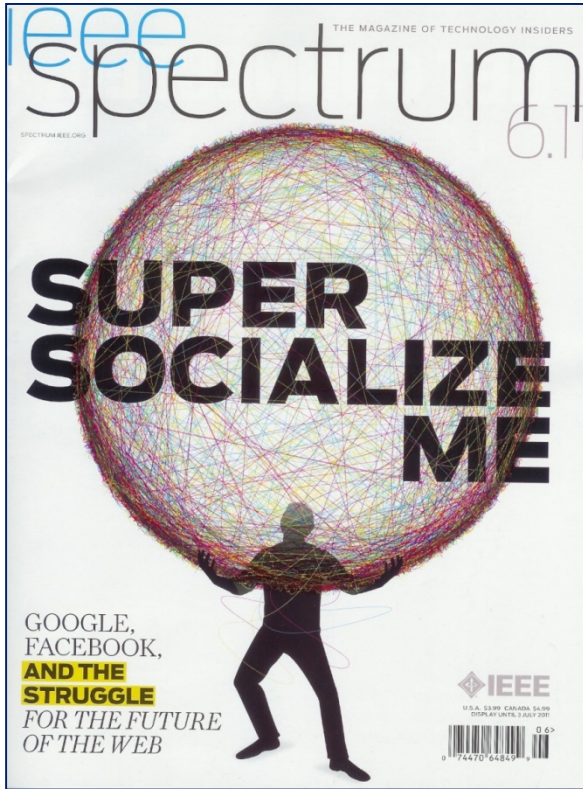


# IEEE is: *World-class Publications*

- More than 2 million engineers, scientists and students have access to
- More than 3 MILLION articles in IEEE digital library
  - *7M+ articles downloaded per month*
- From over 150 IEEE journals, transactions and magazines
  - *17 of the 20 top-cited publications in electrical and electronics engineering*



# IEEE is: *Spectrum Magazine & Social Media*



## ■ Facebook

– 18,000 fans

## ■ Twitter



– 12,000 followers

**@ieeemetroevents**

## ■ LinkedIn

– >200 in group

**2013 IEEE Smart Tech Metro Area Workshop**

## ■ YouTube

– 11.5 million views

– 4,100 subscribers



**Workshop Slides will be sent to you via email using Dropbox**



# IEEE is: A Humanitarian Technology Focus “Engineering for Change”

- IEEE-ASME Joint Endeavor
  - Engineers Without Borders
- Online environment
  - Bring together engineers and other problem solvers with NGOs and local communities
  - Address basic quality of life issues such as access to clean water, electricity and proper sanitation



# IEEE is: EPICS

## Engineering Projects in Community Service



- Conceived and championed by IEEE 2007 President Leah Jamieson of Purdue University
- University and high-school students work on engineering-related projects with local area non-profit organizations
- Empowers student branches and IEEE GOLD groups to work with high school students on community service-related engineering projects

# IEEE is: Continuous Education



## ■ Pre-University Education

- TryEngineering.org
- Teacher In-Service Program
- Engineering Projects in Community Service (EPICS)

## ■ University Education

- Accreditation (US and non-US)
- Technical English Program  
(on-site training workshops for volunteers)



## ■ Continuing Education

- Short Courses (CEUs & PDHs)
- Partnerships with Universities

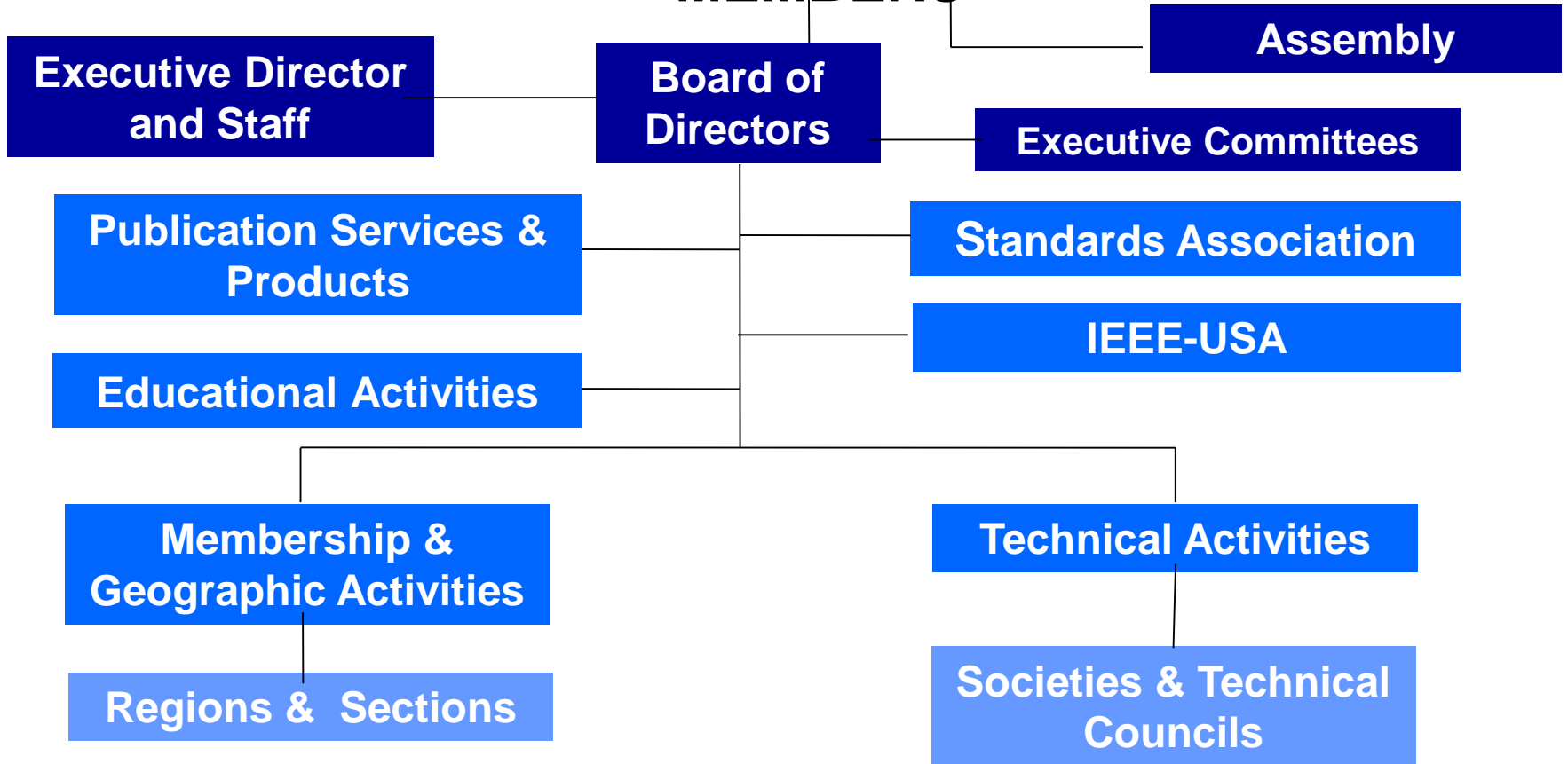


# IEEE is: Looking to the Future

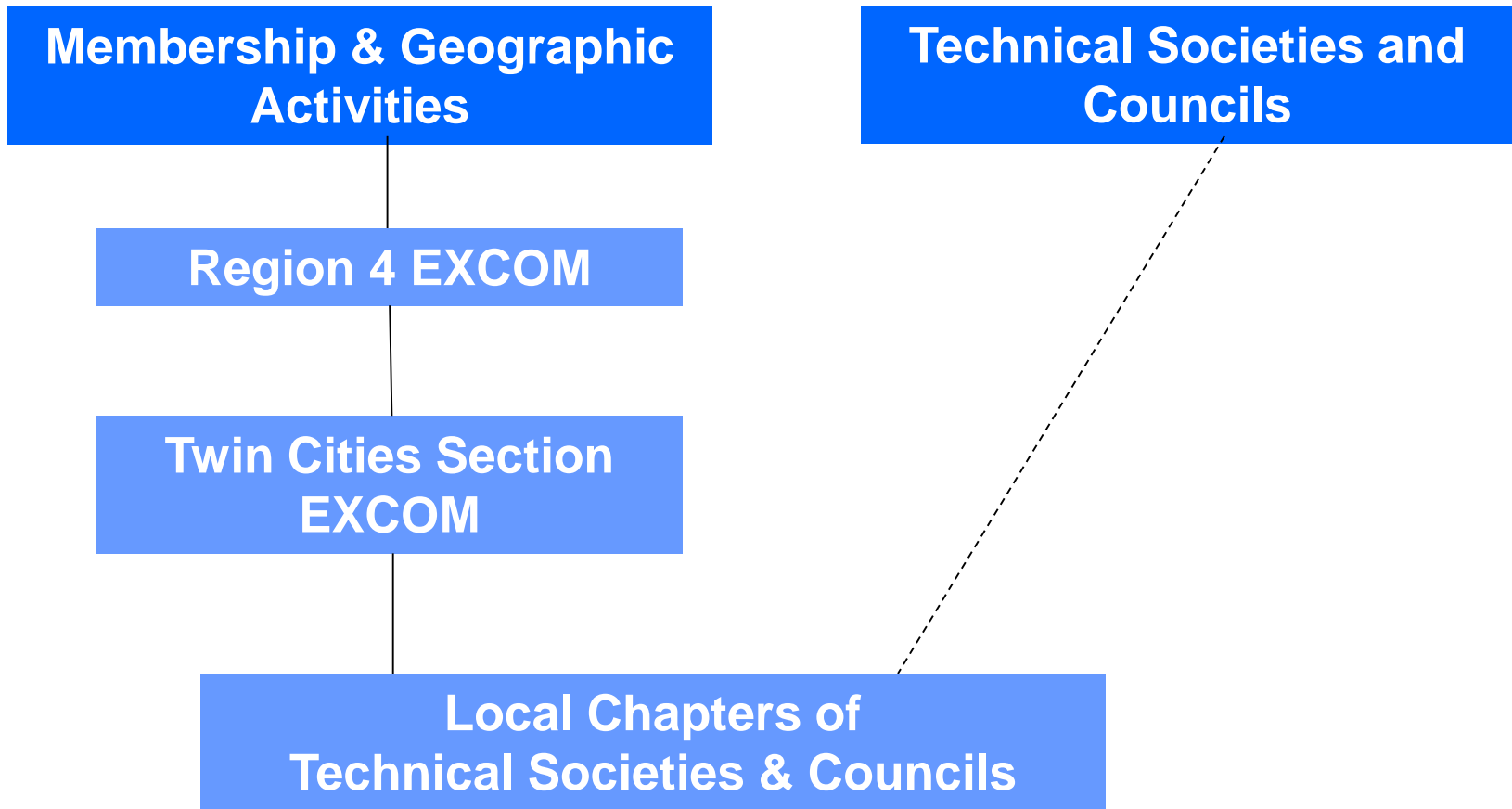
- IEEE is bringing a more systematic, comprehensive approach to applying technology to help solve world problems
- Developing global solutions for critical need areas
- Encouraging local IEEE members to create solutions
- Providing information on funding sources, and on other support



# IEEE Organization & Governance



# IEEE Organization & Governance



# Twin Cities Section Organization

- Executive Committee (ExCom)
  - 4 elected Section officers & Past Chair
    - Chair, Vice Chair, Secretary, Treasurer
  - One elected representative from each local technical chapter
  - Executive committee chairs
  - One representative from Student Branches
  - Meets once a month
  - Responsible for oversight of all IEEE activities in the section
- ~ 3200 members
- ~ 50 technical meetings per year
- Section ExCom Executive Committees
  - Nominating (Joe Palmiter)
  - Communications (Steve Weber)
  - Technical Activities
  - Corporate Ambassadors (Brady Mayes)
  - Student Activities (Steven James)
  - PACE (Lee Globus)
  - Membership Development (El Nolley)
  - Awards (Jim Riess)
  - MFEST Representative (Steve Merriman)
  - Educational Activities
  - Government Activities

# Twin Cities Section Technical Societies

- Aerospace Electronic Systems
- Computer
- Consultants Network of Twin Cities
- Engineering in Medicine and Biology
- Electromagnetic Compatibility
- Instrumentation and Measurement
- Magnetics
- Microwave
- Power & Energy
- Power Electronics
- Reliability
- Signal Processing & Communications Joint
- Technology Management Council
- Student Branches
  - St. Cloud State
  - U of Minnesota
  - Univ. of St. Thomas
  - Univ. of Wisconsin, Stout
- Projects and Study Groups
  - Phoenix
  - Clever AI
  - Innovation and Creativity