



IEEE Southeastern Michigan Section

April 2024

Sharan.Kalwani@ieee.org

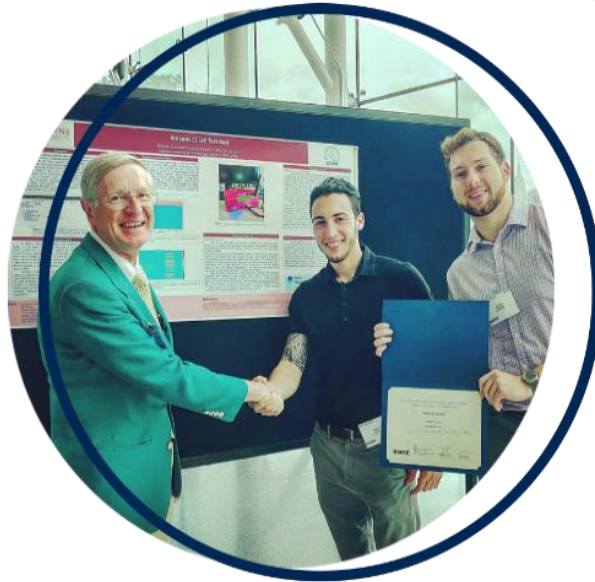
[IEEE Southeastern Michigan Section, Chair 2021-2024](#)

chair@ieee-sem.org



IEEE: Your Home for.....

- ▶ Students
- ▶ Industry and Professionals
- ▶ Academia



IEEE: Your Home for.....

YOUR PROFESSIONAL HOME

**Students/
Young
Professionals**



▶ Students:

- *Pre-University*
- *Undergraduate*
- *Graduate*

▶ *EPICS (Engineering Projects in Community Service)* <https://epics.ieee.org/>

▶ *IEEE Potentials Magazine*, <https://potentialsmagazine.ieee.org/home/>

▶ *IEEE Humanitarian Activities*, <https://hac.ieee.org/>

▶ *IEEE Extreme*, <https://ieeextreme.org/>

▶ *IEEE Women in Engineering*, <https://wie.ieee.org/>

▶ *IEEE Mentoring Program*, <https://www.ieee.org/membership/mentoring.html>

IEEE: Your Home for.....

▶ Industry:

- *Individual Contributor*
- *Industry Researcher*
- *Managerial Path*

YOUR PROFESSIONAL HOME

Industry



- ▶ *IEEE Collabratec, <https://iee-collabratec.ieee.org/>*
- ▶ *IEEE Learning Network, <https://iln.ieee.org/public/trainingcatalog.aspx>*
- ▶ *IEEE Center for Leadership Excellence, <https://iee-elearning.org/CLE/>*
- ▶ *IEEE Resource Centers, <https://www.ieee.org/communities/iee-resource-centers.html>*
- ▶ *IEEE Standards Association, <https://standards.ieee.org/>*
- ▶ *IEEE Job Site, <https://jobs.ieee.org/>*
- ▶ *IEEE Academies, <https://www.ieee.org/education/academy-index.html>*
- ▶ *IEEE Credentialing Program, <https://www.ieee.org/education/credentialing/index.html>*

IEEE: Your Home for.....

▶ Faculty:

- *Junior Faculty*
- *Established Faculty*
- *Retired Faculty*

YOUR PROFESSIONAL HOME

Academic



- ▶ *IEEE Xplore, <https://ieeexplore.ieee.org/Xplore/home.jsp>*
- ▶ *IEEE Standards Association, <https://standards.ieee.org/>*
- ▶ *IEEE Job Site, <https://jobs.ieee.org/>*
- ▶ *IEEE Volunteering, <https://volunteer.ieee.org/>*
- ▶ *IEEE Mentoring Program, <https://www.ieee.org/membership/mentoring.html>*
- ▶ *IEEE Awards, <https://corporate-awards.ieee.org/>*
- ▶ *IEEE Conferences, <https://www.ieee.org/conferences/>*
- ▶ *IEEE Societies, <https://www.ieee.org/communities/societies/index.html>*

IEEE: Your Home

- ▶ The world is divided into 10 geographic areas called Regions. More than 474,336 members in more than 190 countries; slightly more than 60% of whom are from outside the United States

IEEE Regions



IEEE Global or HQ

Region 1

Region 2

Region 3

Region 4

Region 5

Region 6

Region 7

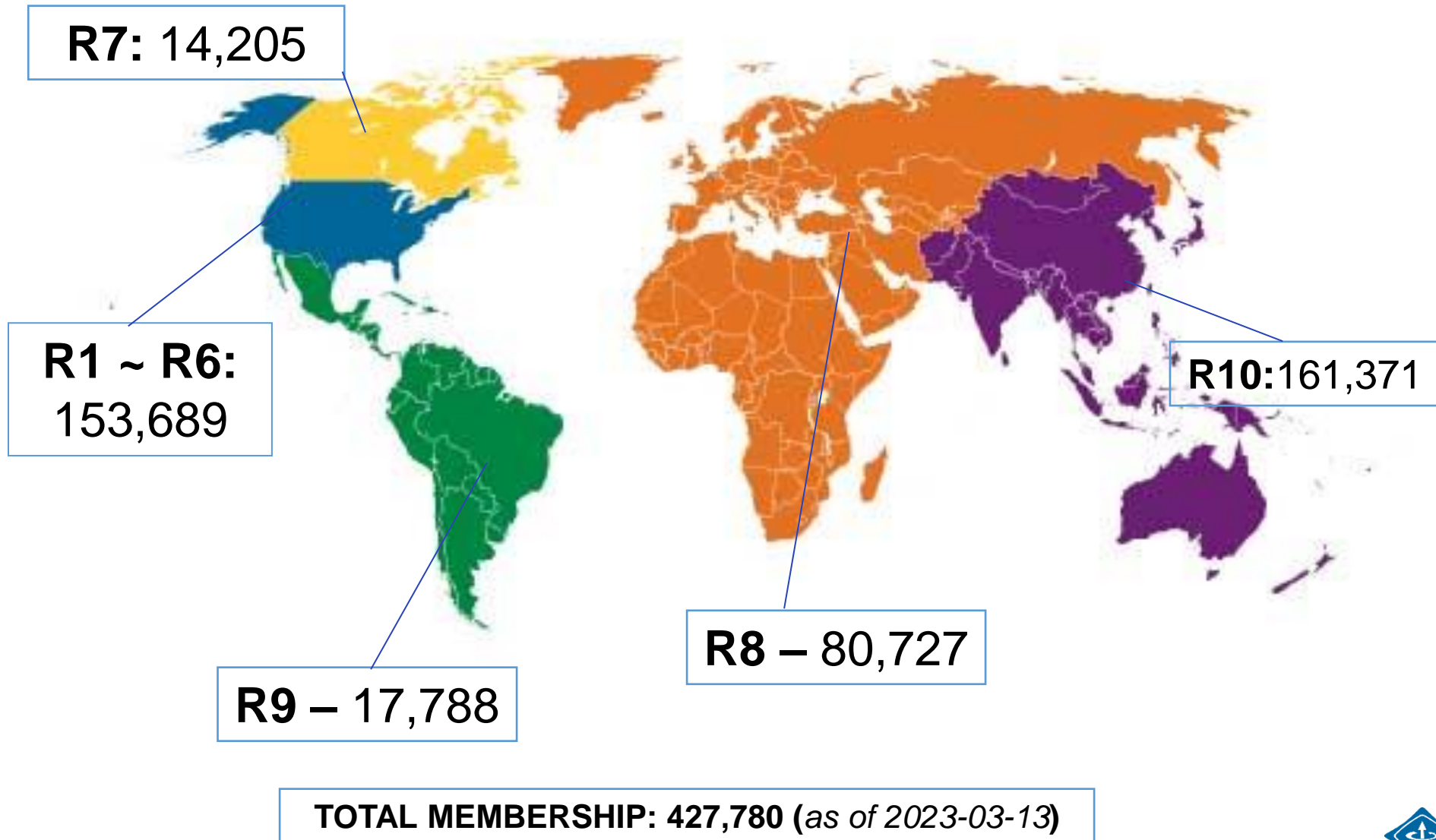
Region 8

Region 9

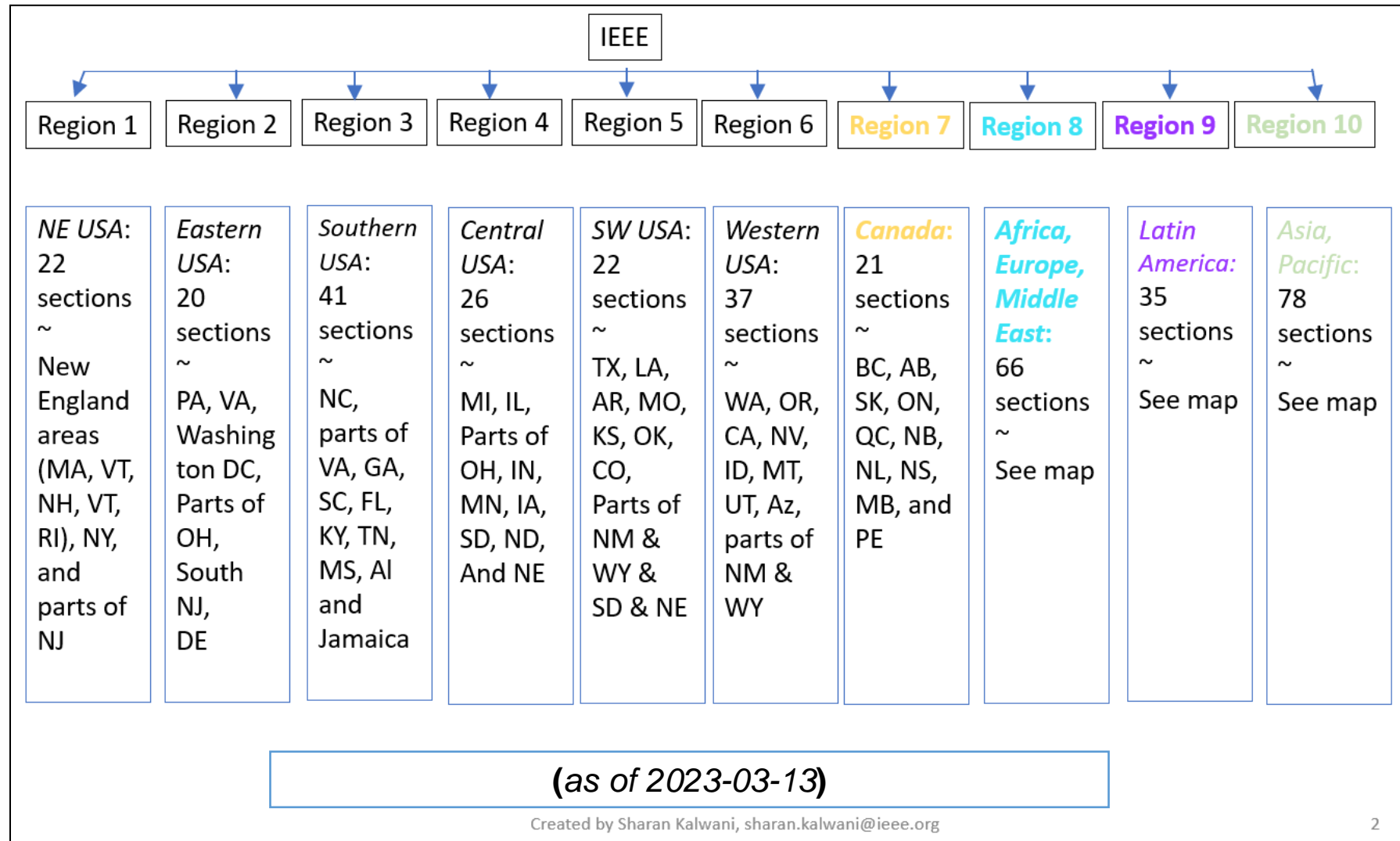
Region 10



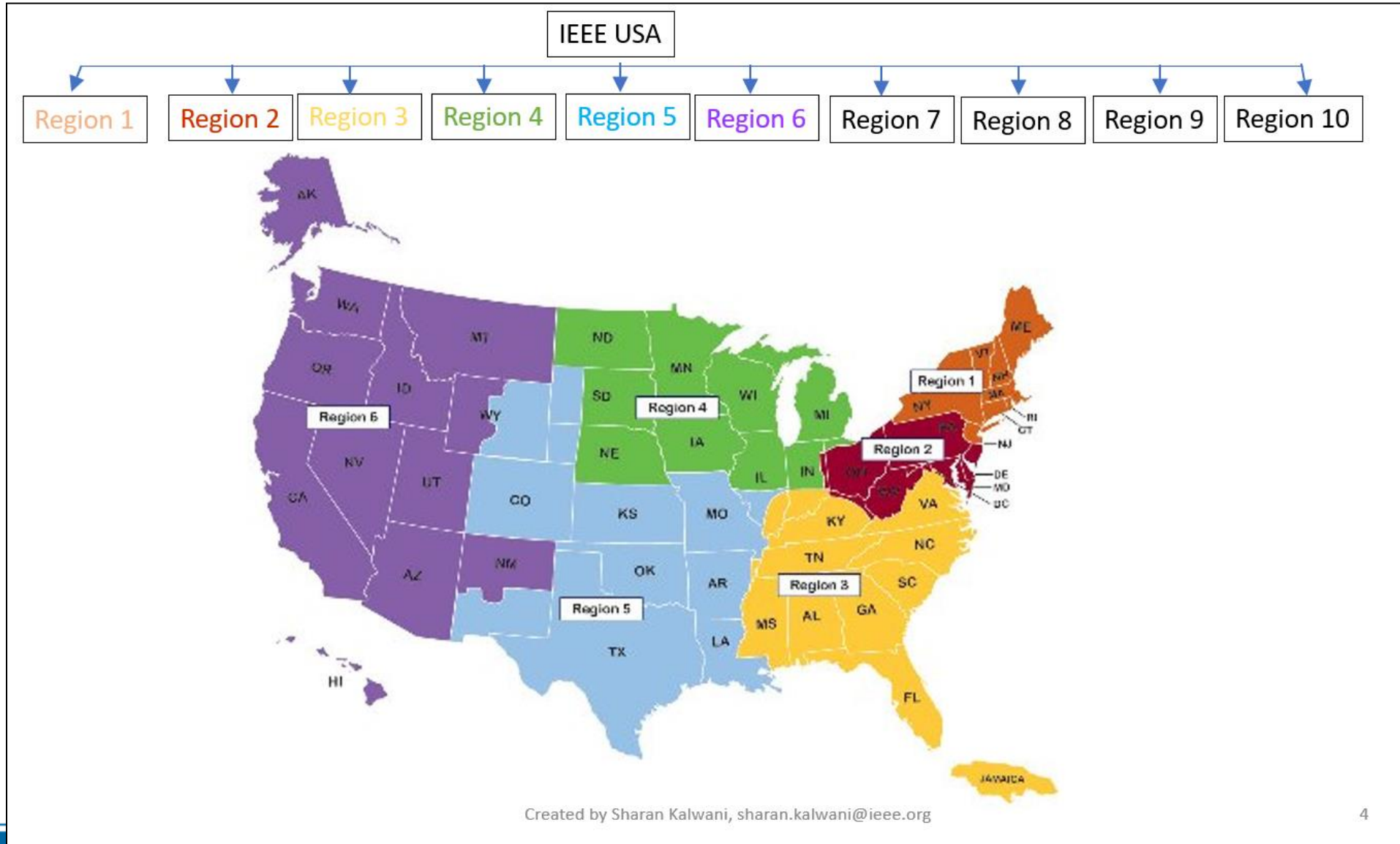
IEEE Membership by Region (2023 data)



IEEE Sections by Region



IEEE-USA Sections by Region (1~6)



IEEE: Quick facts.....(2024-03-01)

- ▶ Sponsors or Co-sponsors more than 2000 conferences & meetings world-wide each year (106 countries)
 - Society/Council Conferences, Workshops, etc
 - Regional Meetings
 - Local Section and Chapter Meetings
- ▶ More than 5 million documents in the IEEE *Xplore*[®] Electronic Library
- ▶ 4 million total conference papers in *Xplore*[®] since 1936, approx. 200,000 added annually
- ▶ Publishes 200 Transactions, Journals and Magazines/Newsletters
- ▶ More than 1032 active IEEE standards, with ~~400~~ 1035 in development
- ▶ 39 Technical Societies
- ▶ IEEE publishes **nearly a third** of the world's technical literature in electrical engineering, computer science, and electronics

IEEE: Quick facts.....(2024-03-01)

- ▶ More than 474,336 members in more than 190 countries (64% non-USA)
- ▶ More than 181,612 student members
- ▶ 344 **Sections** and 38 Sub-Sections in **ten** geographic Regions worldwide (each section can have 1 or more technical chapters)
- ▶ 2,702 *Technical* Chapters that unite local members with similar *technical* interests
- ▶ 338 Affinity Groups { Consultants/WiE/Life Members (LM)/Young Professionals (YP) }
- ▶ 3,700 Student Branches in 100 countries
- ▶ 3,625 *Student Branch Chapters (IEEE technical societies)**
- ▶ 634 Affinity Groups
- ▶ Grew ~~8%~~ a lot this year 😊



IEEE: Recap of IEEE taxonomy.....(2024-04-21)

▶ Structure

▶ IEEE is organized into:

Local sections within [geographic regions](#)

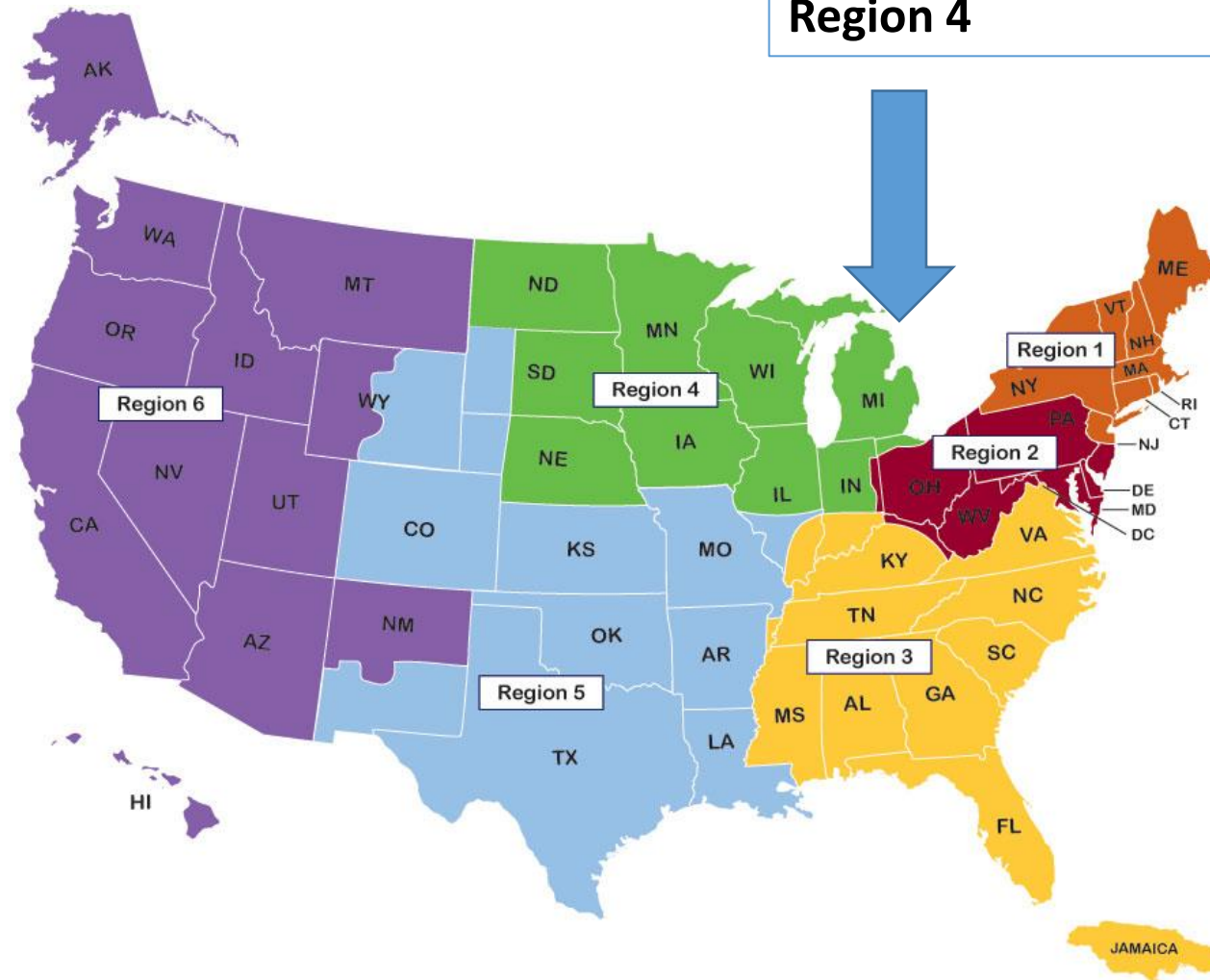
- [Chapters](#) comprised of local members with similar technical interests
- [Societies and technical councils](#) that compose technical divisions
- [Student branches](#) at colleges and universities around the world
- Student branch chapters; [affinity groups](#) and special interest groups; as well as [IEEE-Eta Kappa Nu \(IEEE-HKN\), the honor society of IEEE](#)
- [For more on these and other statistics go to IEEE at a Glance](#)
- [Download a chart containing a Summary of the IEEE Organization \(PDF, 19 KB\)](#)

<https://www.ieee.org/about/organization/index.html>



IEEE Southeastern Michigan (SEM) Section

The IEEE SEM Section is part of Region 4



<http://r4.ieee.org/sem/>

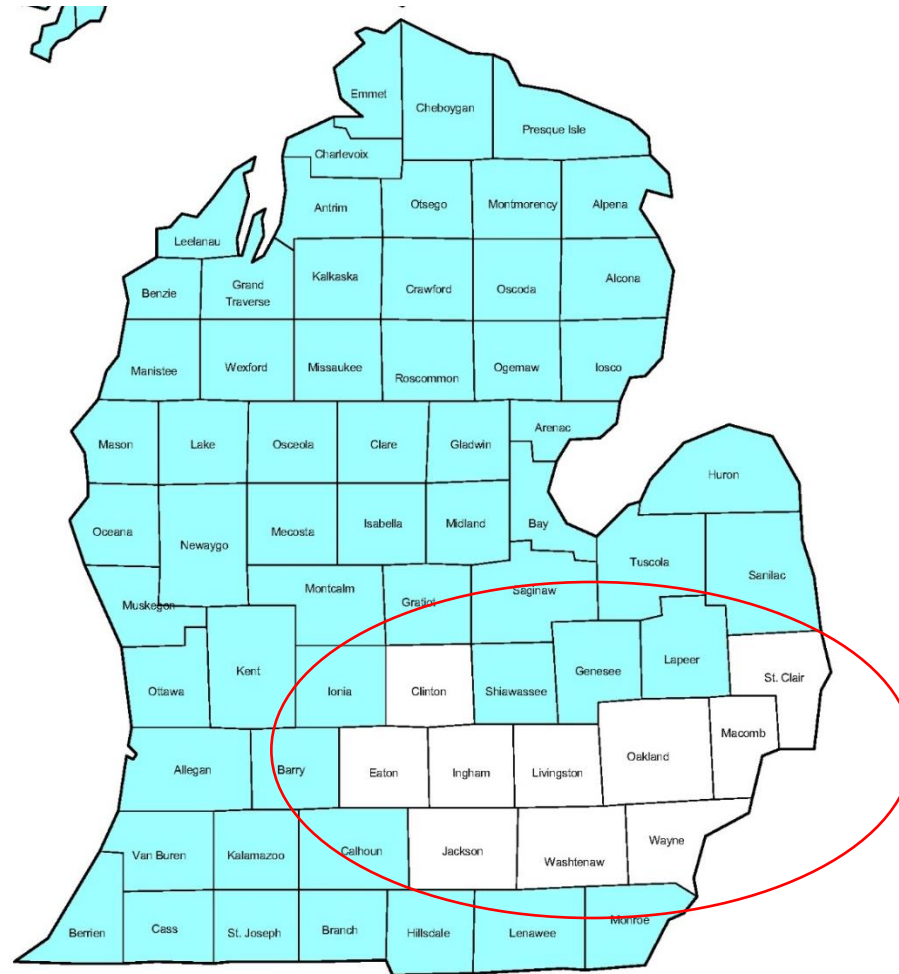
IEEE Southeastern Michigan (SEM) Section

The IEEE SEM Section is part of Region 4 and covers only the Southeastern portion of the state of Michigan.

The IEEE SE Michigan Section was founded on June 1, 1963.

Number of members \approx 2839

Total Population of Michigan \approx 10.07 million

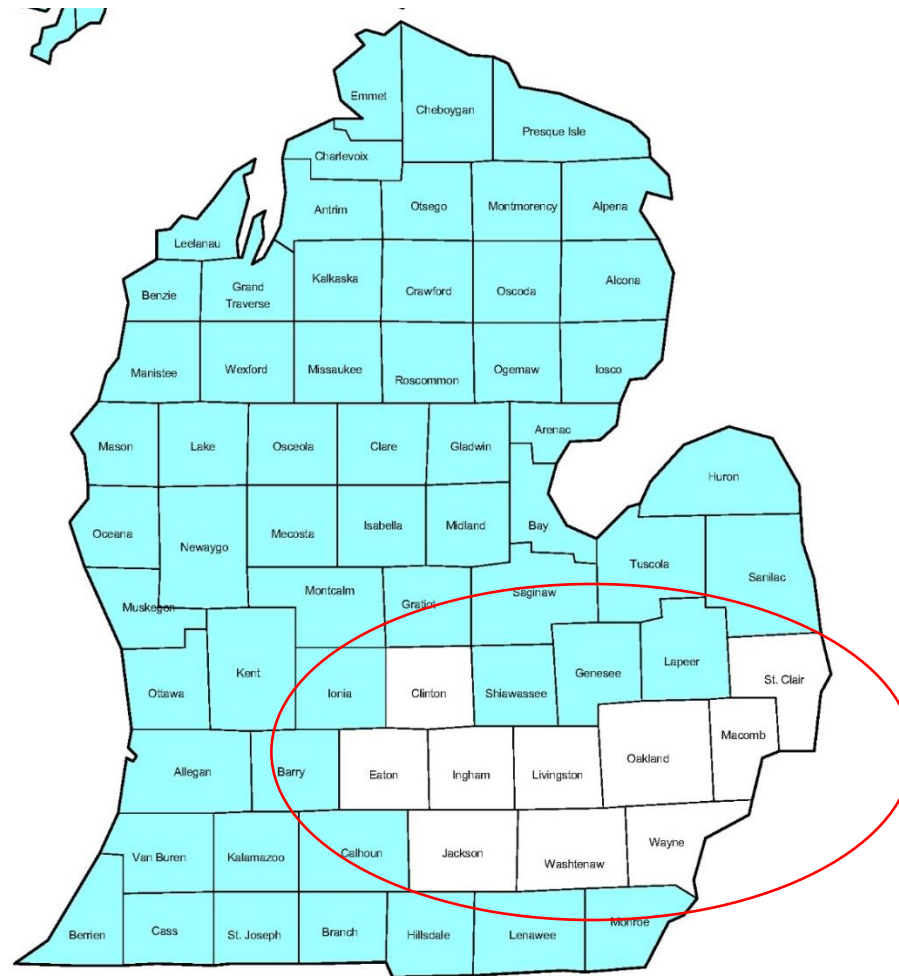


IEEE Southeastern Michigan (SEM) Section

Super Quick Summary

The Southeastern Michigan Section has:

- 18 Technical Chapters (CH)
- 4 Affinity Groups (AG)
- 8 Student Branches (SB)
- 8 Student Honors Society (HKN)
- 4 Student Technical Chapters (SBC)



IEEE Southeastern Michigan (SEM) Section History

IEEE SEM section has a rich and storied history. It began life as an amalgamation of the Detroit Sections of AIEE (American Institute of Electrical Engineers) and IRE (Institute of Radio Engineers).

The Detroit Sections of IRE and AIEE were recognized by the national organizations as being among the more active sections. Each section had hosted several national conventions and many smaller technical conferences in Detroit. Several local officers went on to leadership roles at the national levels in AIEE and IRE.

Following the 1961 AIEE Fall General Meeting, the officers of the Detroit Sections of AIEE and IRE held several discussions to iron out many potential problems in order to make the new union a success. The two sections merged to form the Southeastern Michigan Section of the IEEE (IEEE/SEM) on June 1, 1963.

Read the fascinating narrative at <https://r4.ieee.org/sem/about-sem/section-history/>



IEEE Southeastern Michigan (SEM) Section History

The activism of IEEE SEM Section has extended to involvement in the broader engineering, professional and scientific community. We publish every month a Newsletter called Wavelengths (more on that later).

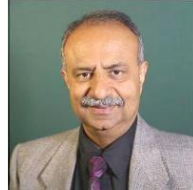
Past issues of Wavelengths illustrate the involvement of IEEE/SEM and its members in programs with the **Engineering Society of Detroit (ESD)** , and especially the ESD Affiliate Council , the **Michigan Society of Professional Engineers** , National Engineers Week , and the Science and Engineering Fair of Metropolitan Detroit. We also collaborate with numerous sister professional organizations such as INCOSE, NSBE, etc.

In addition, our numerous section chapters, student branches, etc. (all called Organization Units or OUs) are actively involved in technical meetings, events, professional development, conferences, etc.

Read the fascinating narrative at <https://r4.ieee.org/sem/about-sem/section-history/>

IEEE Southeastern Michigan (SEM) Current 2024 Leadership

Chair: Sharan Kalwani



Vice-Chair: Aneesh Mathai



Secretary: Christopher Johnson



Treasurer: Ramesh Sethu



Advisor: Mohamad Berri



How can I contact the Executive Committee/Admin members of the Section?

Use any of the following:

Chair:

chair@ieee-sem.org

Vice Chair:

vicechair@ieee-sem.org

Treasurer:

treasurer@ieee-sem.org

Secretary:

secretary@ieee-sem.org

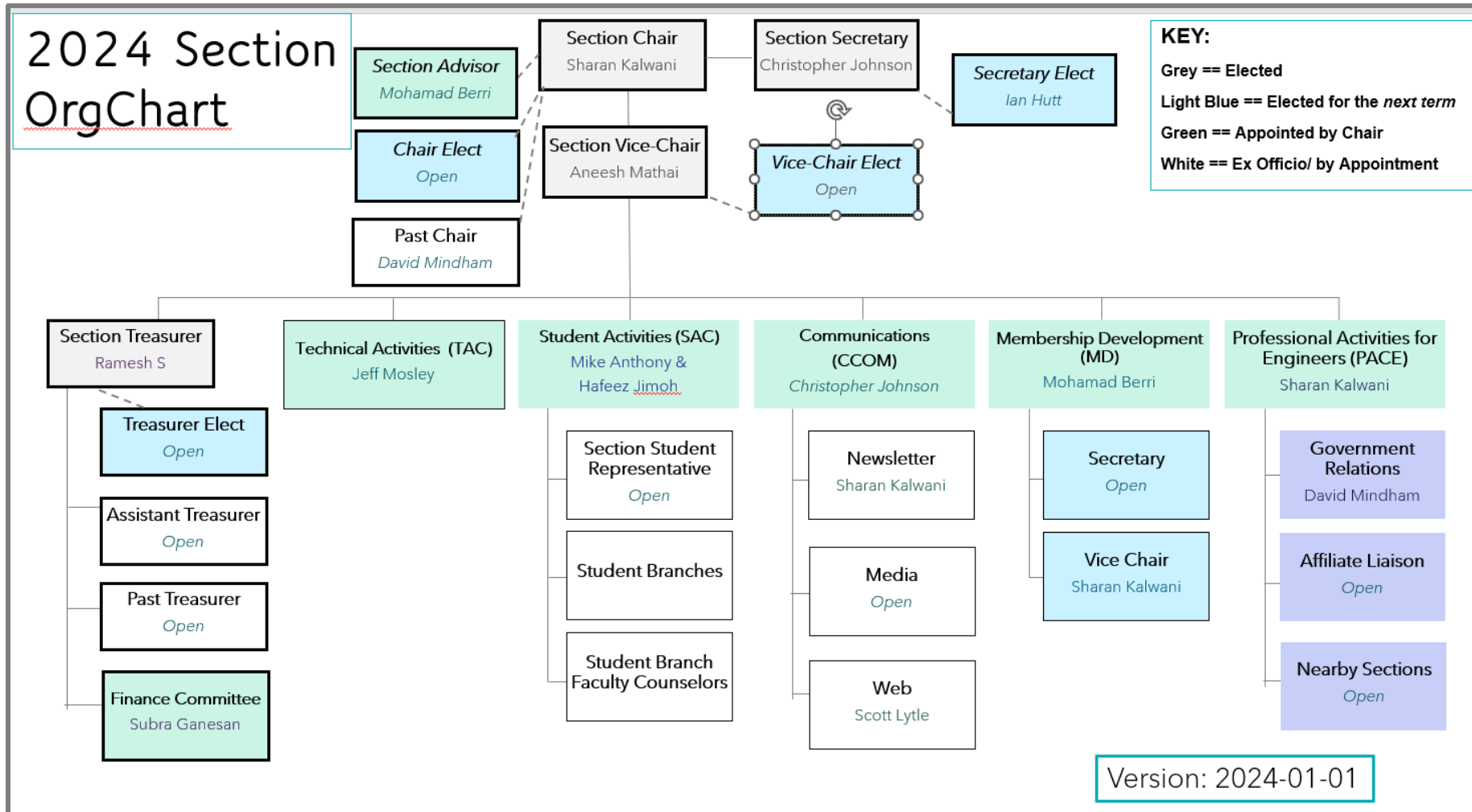
Advisor:

advisor@ieee-sem.org

More details can be found at <https://r4.ieee.org/sem/excom-officers/>



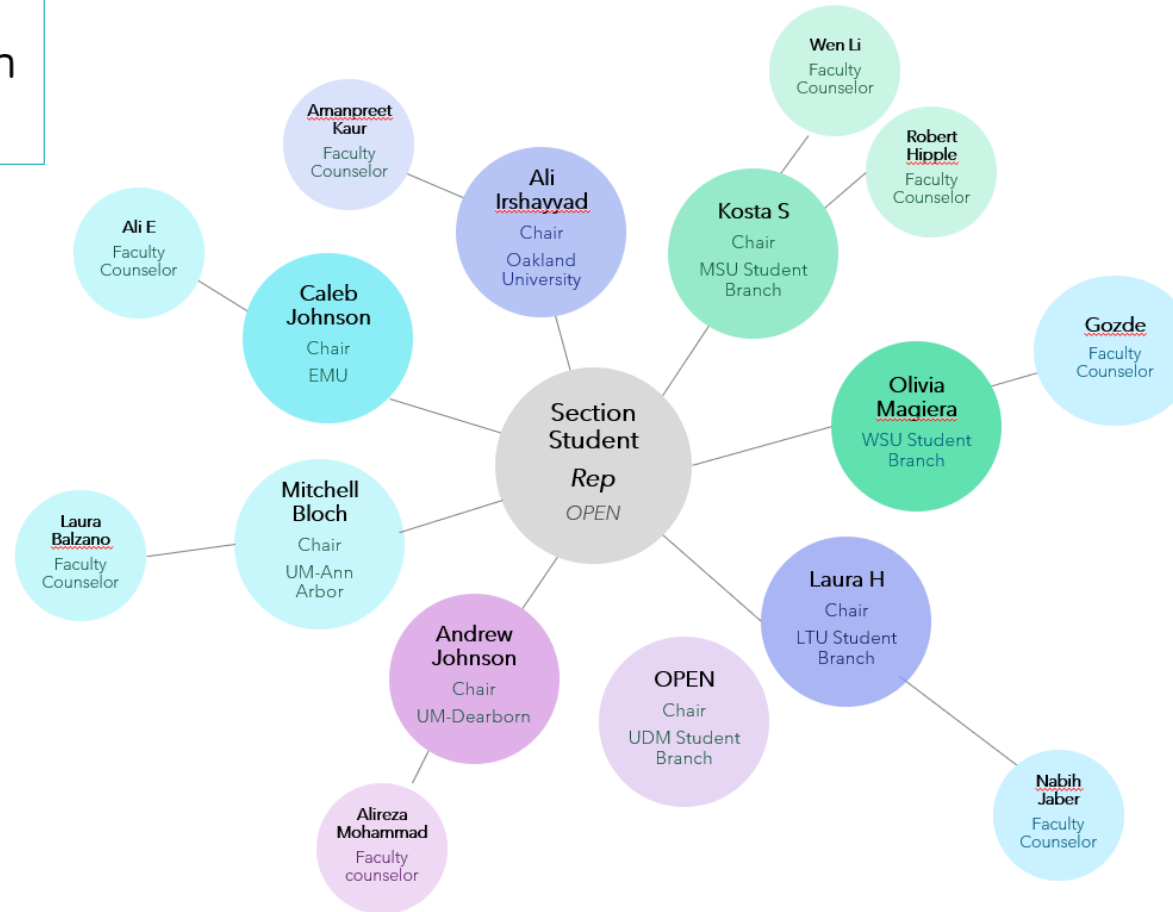
IEEE Southeastern Michigan Section Organization



IEEE Southeastern Michigan Section Organization

2024 IEEE
Southeastern Michigan
Student Branches

Organization chart



Version: 2023-12-01

IEEE Southeastern Michigan Section has the following *Technical Society Chapters*

► Chapter Technical Meetings:

- Chapter: 01 (*Joint*) Signal Processing, Circuits & Systems + Information Theory Society
- Chapter: 02 Vehicular Technology Society
- Chapter: 03 (*Joint*) Aerospace & Electronic Systems Society w/ Communications Society
- Chapter: 04 (*Joint*) Antennas & Propagation, Electron Devices w/Microwave Theory and Techniques “Trident”
- Chapter: 05 Computer Society
- Chapter: 06 Geosciences and Remote Sensing Society
- Chapter: 07 (*Joint*) Power Engineering w/ Industrial Applications Society
- Chapter: 08 Electromagnetic Compatibility Society “EMC”
- Chapter: 09 (*Joint*) Industrial Electronics w/ Power Electronics Society
- Chapter: 10 Technology and Engineering Management Society
- Chapter: 11 Engineering in Medicine & Biology Society
- Chapter: 12 Control Systems Society
- Chapter: 13 Education Society
- Chapter: 14 Robotics And Automation Society
- Chapter: 15 Nuclear Plasma Sciences Society
- Chapter: 16 (*Joint*) Computational Intelligence with Systems, Man and Cybernetics Society
- Chapter: 17 Nanotechnology Council
- **Chapter: 18 Magnetics Society (NEW in the SECTION)**

IEEE Southeastern Michigan Section has the following *Affinity Groups*

▶ Affinity Groups:

- Consultants Network (aka CN)
- Women in Engineering (aka WiE)
- Life Members (aka LMAG)
- Young Professionals (recent graduates aka YP, called GOLD in the distant past....)

IEEE Southeastern Michigan Section has the following *Student Branches*

▶ Student Branches (SB):

- University of Michigan, Ann Arbor
- University of Michigan, Dearborn
- Eastern Michigan University, Ypsilanti
- Wayne State University, Detroit
- Lawrence Tech University, Southfield
- Oakland University, Rochester
- Michigan State University, East Lansing

IEEE Southeastern Michigan Section Organization

- ▶ Section engages in a lot of outreach
- ▶ Holds regular STEM sessions on a variety of EE/Physics/Science topics
- ▶ Focus is on building value for members via:
 - Technical Development/Educational Sessions
 - Professional Development thru complimentary skills (Proj Mgmt, etc)
 - Soft Skills/Leadership/Time Mgmt seminars
- ▶ Section Technical Meetings:
 - ❖ Variety of topics and subjects, both online & in person

A current list can always be found at <http://bit.ly/sem-upcoming>



IEEE Southeastern Michigan Section Organization (2023)

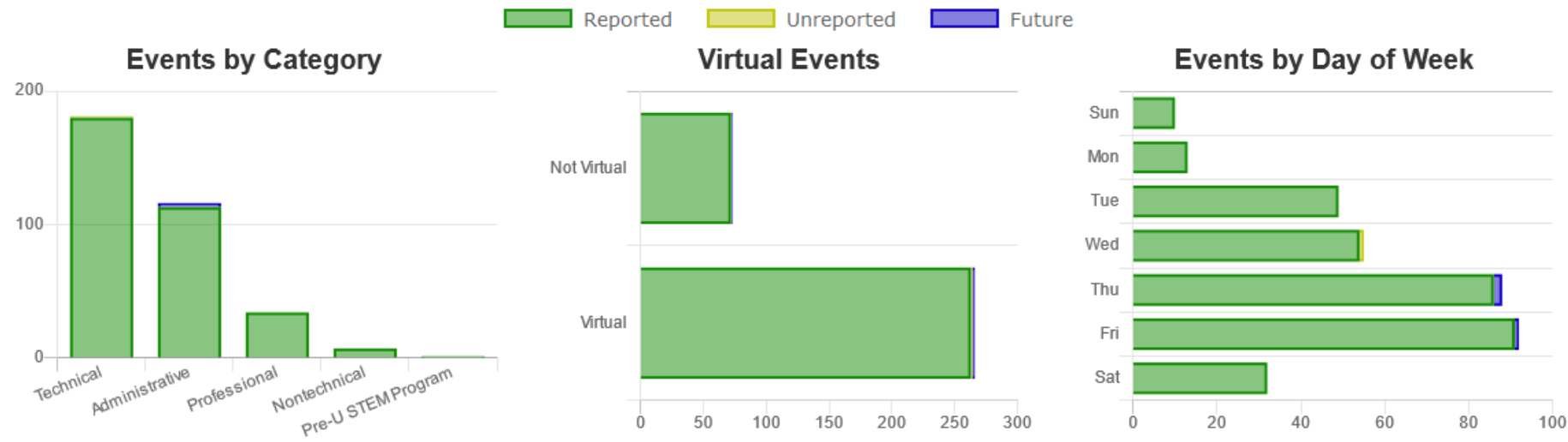
EVENTS ACTIVITY

Year [?]
 Organizational Unit [?]

R40035 - Southeastern Michigan Section Charts [?]

These data counts and charts include the selected OU and all related organizational units. See below for individual OU numbers and charts.

Name	Prof	Tech	Non-Tech	Admin	Hum	Pre-U	Total
Southeastern Michigan Section	34	181	7	116	0	1	339



A current list can always be found at <http://bit.ly/sem-upcoming>



IEEE Southeastern Michigan Section (2024 YTD) *04/15/2024

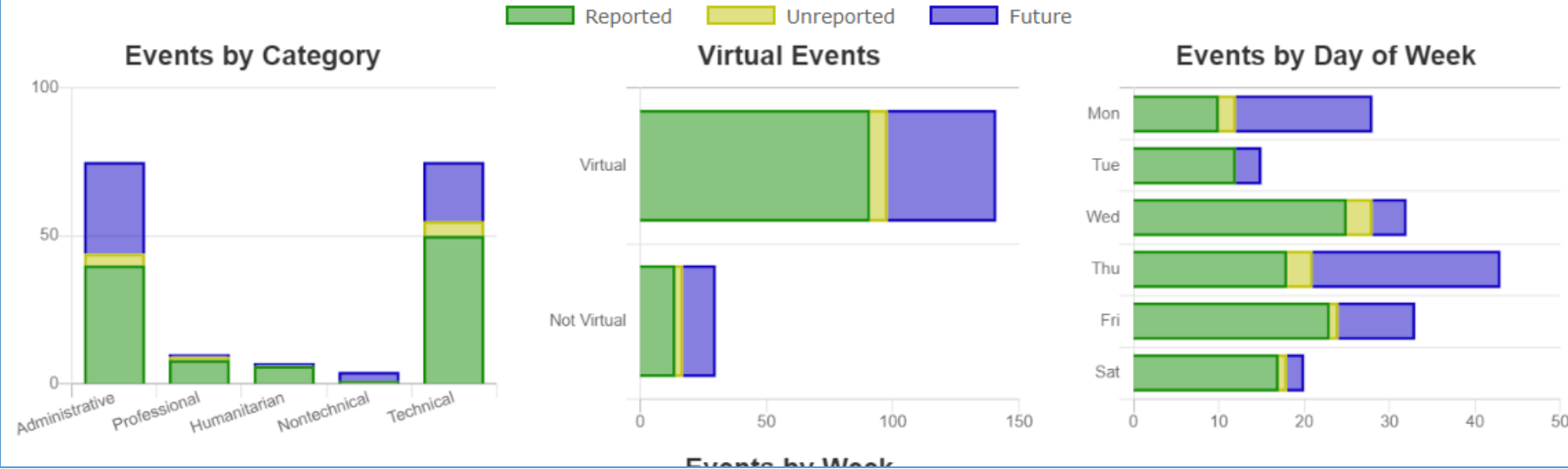
EVENTS ACTIVITY

Year ?
 Organizational Unit ?
 Child OUs ?

R40035 - Southeastern Michigan Section Charts ?

These data counts and charts include the selected OU and all related organizational units. See below for individual OU numbers and charts.

Name	Prof	Tech	Non-Tech	Admin	Hum	Pre-U	Total
Southeastern Michigan Section	10	75	4	75	7	0	171



A current list can always be found at <http://bit.ly/sem-upcoming>



IEEE Southeastern Michigan Section Past Laurels

► Innovations:

- Police Radio (Belle Isle)

April 2, 2018

IEEE SOUTH EAST MICHIGAN – WAVELENGTHS

Police Radio

Milestones: One-Way Police Radio Communication, 1928

Detroit, MI IEEE Historical Plaque - Dedicated May 1987

"At this site on April 7, 1928 the Detroit Police Department commenced regular one-way radio communication with its patrol cars. Developed by personnel of the department's radio bureau, the system was the product of seven years of experimentation under the direction of police commissioner, William P. Rutledge. Their work proved the practicality of land-mobile radio for police work and led to its adoption throughout the country."

The plaque can be viewed on Belle Island of Detroit, Michigan, U.S.A., at the front south-west corner near the main entrance door to the police building.

In the 1920s gangster era, bank robbers and bootleggers made clean getaways time after time, to the great consternation of police.

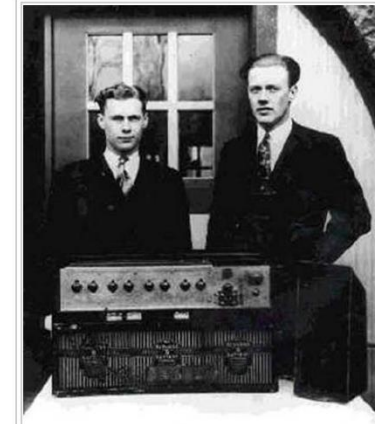
But in 1928, a dedicated Detroit patrolman and an electronics buff devised the first successful one-way radio link between police headquarters and cruisers. Critical news of crimes in progress could now be transmitted from the stationhouse to police cars as they drove.

Electronics was a fledgling science when Detroit Patrolman Kenneth Cox and Robert L. Batts, an engineering student, built a stable radio receiver and antenna system. Their successful one-way radio, coming after years of trial and error, was installed in April 1928. The Detroit Police Department made history as the first to dispatch patrol cars regularly by radio. Many city police departments shortly followed suit with their own systems.

Between 1921 and 1927, radio buffs Kenneth R. Cox, Walter Vogler and Bernard Fitzgerald, all Detroit police officers, experimented with radio sets they had installed in the back seat of a Model T Ford police patrol car.

The receivers picked up signals, but not very consistently. Frequently, broadcasts would fade out as the car passed large buildings or under railroad bridges. Also, police had no designated band on which to broadcast, so the system operated like any radio station. The station was appropriately called KOP and listed locally as an entertainment station.

To meet FRC (Federal Radio Commission, predecessor of the FCC) licensing requirements, police officers broadcast recorded music in between lists of stolen vehicles and descriptions of missing children. Persistent work by Cox and Robert Batts led to the development of an improved receiver in 1927. A broadcasting station, W8FS, was set up on Belle Isle and regular dispatches began in 1928. (Source: Detroit Free Press).



IEEE Southeastern Michigan Section Recent Laurels (2022)



IEEE Southeastern Michigan Section Appreciation (2023)



IEEE Southeastern Michigan Section's: *Technical Chapter* Recent Laurels (2021)



2021 Outstanding Chapter Award

presented to the

**IEEE Computer Society Southeastern Michigan
Section Chapter**

*"For the Computer Society Professional Chapter providing the best overall set of
programs and activities for its local members"*

A handwritten signature in cursive script that reads "Melissa Russell".

Melissa A. Russell, Executive Director
Dec 2021



*2021 Outstanding Chapter Award
for Industry Engagement*

presented to the

**IEEE Computer Society Southeastern Michigan Section
Chapter**

*"For the Computer Society Professional Chapter providing the best programs
and activities to encourage industry engagement"*

A handwritten signature in cursive script that reads "Melissa Russell".

Melissa A. Russell, Executive Director
Dec 2021

IEEE Southeastern Michigan Section Laurels (2023)



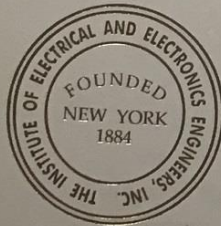
IEEE Electromagnetic Compatibility Society

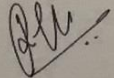
takes pleasure in presenting the

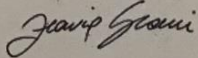
2023 Chapter-of-the-Year Award

to

*Southeast Michigan
EMC Chapter*




Vignesh Rajamani
President
EMC Society

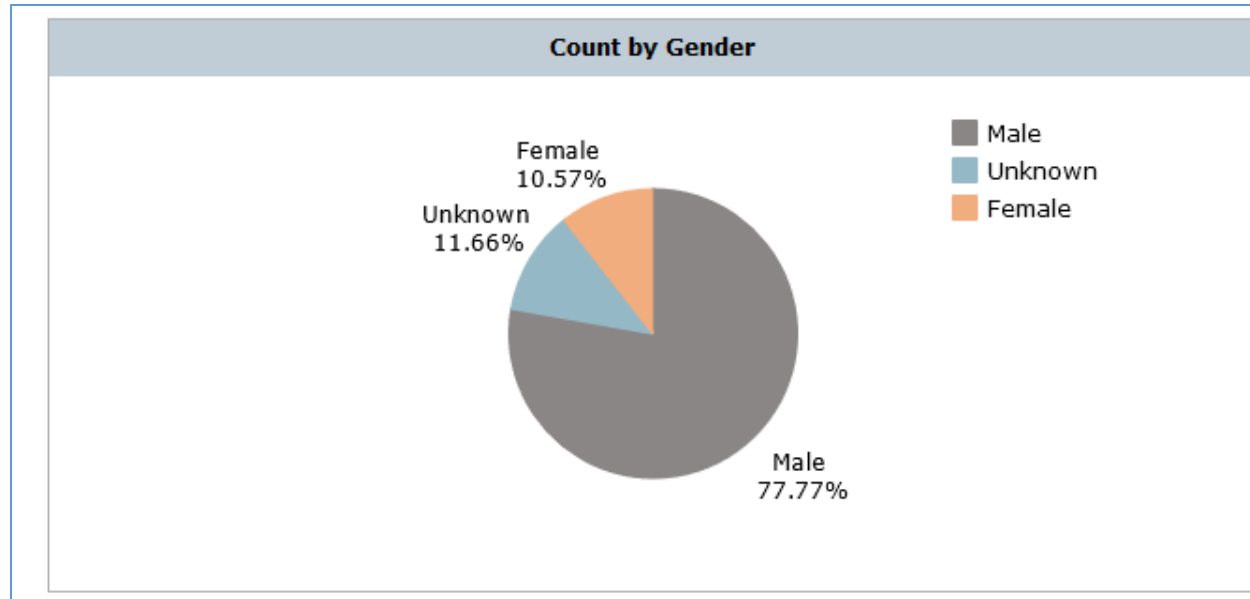

Flavia Grassi
Chair
EMC Awards Committee



IEEE Southeastern Michigan Section Laurels (2018)

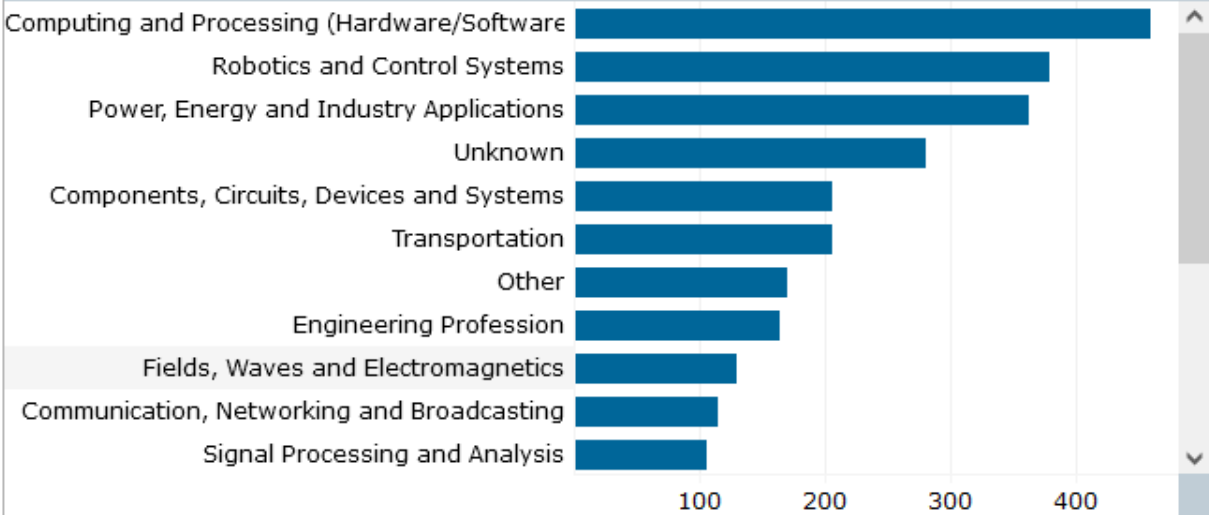


IEEE Southeastern Michigan Membership: Birds Eye View

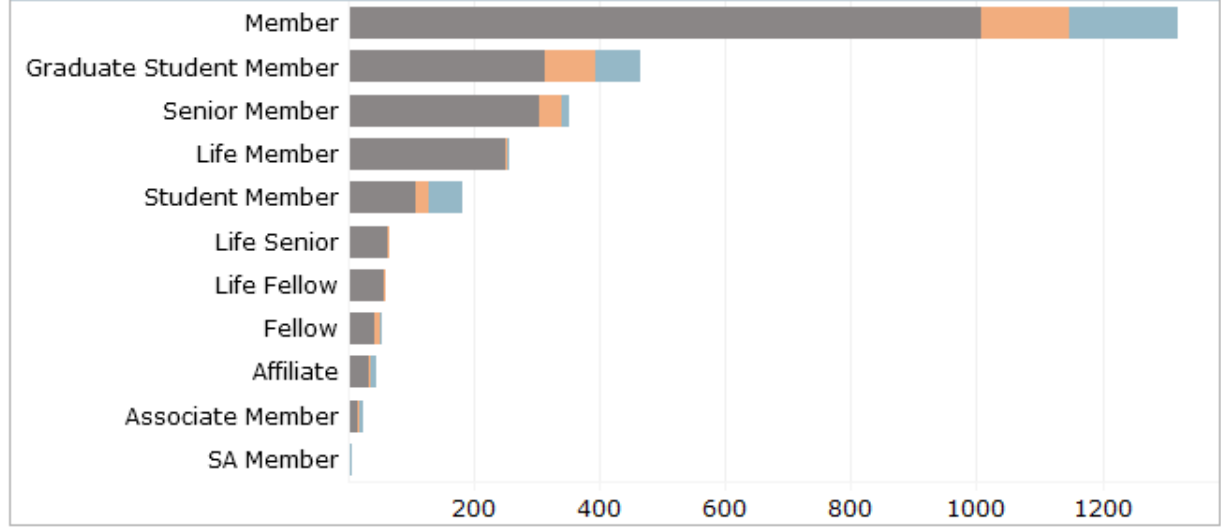


IEEE Southeastern Michigan Membership: Birds Eye View

Count by Technology Focus Area



Count by Grade and Gender



Wavelengths – Section’s Monthly Newsletter

The screenshot shows a web browser window with the URL <https://r4.ieee.org/sem/>. The page header includes navigation links: IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites. The main header features the text "IEEE Southeastern Michigan Section (SEM)" and the IEEE logo. Below the header are social media icons for Facebook, LinkedIn, Twitter, and YouTube. A navigation menu contains the following items: Home, About SEM, SEM Blog, Careers, Chapters, SEM Calendar, Section Conference, and Wavelengths. The "Wavelengths" item is circled in red, and a blue arrow points to it from the right. The main content area is divided into two columns. The left column has a "Frontpage" section with the text: "The June 2020 edition of the Section monthly newsletter - Wavelengths - has been posted! Feel free to check it out and share with fellow IEEE members! TEMSCON 2020 in Detroit, USA is going Virtual due to the COVID-19 pandemic (Coronavirus). See our virtual announcement EMC Fest - New Date: September 17,2020 2020 IEEE Women In Engineering Leadership Metro Detroit Summit". Below this is an "In Memorium" section for Allen Henry Meitzler, Ph.D. (1928-2020), a retired applied physicist with the Ford Motor Company's Systems Research Lab and former adjunct professor at the University of Michigan. A memorial service is mentioned to be held in Ann Arbor. A link is provided for a list of upcoming events. The right column has an "Upcoming Events" section listing: "THU 25 Impact of COVID-19 on the Internet ecosystem (June 25 @ 18:00 - 19:28 EDT)", "JUL 07 Innovative & futuristic Applications of IoT (Online) (July 7 @ 18:00 - 19:30 EDT)", "JUL 08 SEM Section ExCom Monthly Meeting (Face-Face) for July 2020 (July 8 @ 17:00 - 20:00 EDT)", "JUL 09 Ch8: AdCom Teleconference (July 9 @ 11:00 - 12:00 EDT)", and "JUL 18 Two-Day Online Tutorial: Introduction to C language programming (July 18 @ 08:50 - 13:15 EDT)". A "View More..." link is at the bottom of the events list. The IEEE logo is in the bottom right corner.



100th IEEE Anniversary Celebration

Wavelengths Newsletter

July, 2011 | Volume 51 | Issue 2
IEEE Southeastern Michigan Section

In this Issue

100th Anniversary *Once in a Lifetime!* Event Registration, page 1 • Showing Up, page 3 • DLSEMC course, page 4 • The Secretary's Pavane, page 5 • Mentor News, page 7 • PACE News, page 8 • RoboFest RoboExpo Conference, page 8 • UofM Hybrid Vehicles course, page 11 • EV Battery Tech USA Conference, page 12 • EMC Design, page 13 • Ethics Survey Call for Participants, page 14 • Call of Nominations, page 14 • Definition of IEEE "Chapters" and "Section", page 15 • In Memoriam, page 15 • Science Fair Awards, page 16 • Chapter IV Activities - New Society Added, page 17 • Officers List, page 18

Once in a Lifetime!

100th Anniversary Event

Tuesday, October 11, 2011 6pm The Henry Ford Museum

Early Registration through August 1, 2011

It's here! The 100th Anniversary Event for IEEE Southeastern Michigan Section will be at The Henry Ford Museum, Tuesday, October 11, 2011 starting at 6pm. You and your spouse / companion will enjoy the following at the event:

- Reception and networking with the keynote speaker, the 2011 IEEE USA President, and others in Lovett Hall Lobby
- Robofest Sumo Robot competition demonstration, organized by Prof. C.J. Chung from Lawrence Tech

- Lecture on the history of electricity and electronics during the past 100 years
- Dinner in the Lovett Hall Ballroom
- A night of private viewing of the Museum (a \$15 value!)

The keynote speaker will be Dr. Michael Geselowitz from the IEEE History Center at Rutgers. The title of talk is "From Starters to Startups: 100 Years of IEEE & Southeastern Michigan". He will present a non-technical history of the last 100-years of electronics and electricity --

perfect for members as well as spouses / companions!

Members who attended the Spring Section Conference already registered early (see photo of members lining up to register!).

IEEE members get special discount early registration price of \$90 per couple. Hurry! Early registration is open through August 1, 2011. All of the information is on the web site at http://ewh.ieee.org/r4/se_michigan/100.

We are seeking event sponsors and supporters. See the event web site for details. •



Members line up for 100th Anniversary registration at the April Spring Conference

IEEE
Southeastern Michigan
Electric and Electronic Engineers Creating Our Future

Wavelengths Newsletter is produced by IEEE volunteers and published by IEEE Southeastern Michigan (SEM) Section (<http://www.ieee-sem.org>) for the Section members.

Newsletter website:
http://ewh.ieee.org/r4/se_michigan/newsletter
Email: wavelengths@ieee-sem.org

Wavelengths Newsletter July, 2011 | 1



60th Anniversary Southeastern Michigan SECTION Celebration

Once in a lifetime!

Section 60th Anniversary



**Saturday Afternoon Tour, Light Show
with an evening dinner: 3 to 8 pm
November 4, 2023**

Sloan Planetarium & Flint Institute of Art
Flint, Michigan



Electrical and Electronic Engineers Creating Our Future



IEEE Southeastern Michigan – Industry Presence

- SE Michigan is heavily dominated by its famous Automotive Industry
 - General Motors (GM)
 - Ford
 - Stellantis [was FCA (Fiat Chrysler Automotive)/DaimlerChrysler/Chrysler]
- Numerous Tier-1 and Tier-2 Automotive manufacturing suppliers
- Current hot activity is all about:
 - BEV (Battery Electric Vehicles)
 - ADAS (Advanced Driver Assistance Systems)
 - IoT (Internet of Things)
 - Industry 4.0 (Smart Everything)
- Power/Energy Industry (DTE Energy/Consumers Power/Commonwealth Energy/etc)
- Industrial Electronics
- Life Sciences/Medicine/Pharma
- AgriBusiness
- Aerospace (More than 600 related companies)

IEEE Southeastern Michigan Section *Technical Society Chapters*

▶ Chapter Technical Meetings:

- Chapter: 01 (*Joint*) Signal Processing, Circuits & Systems + Information Theory Society
- Chapter: 02 Vehicular Technology Society
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- Chapter: 15 Nuclear Plasma Sciences Society
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- Chapter: 17 Nanotechnology Council
- **Chapter: 18 Magnetics Society (NEW in the SECTION)**

Our Logo



IEEE

**Southeastern
Michigan**

Electrical and Electronic Engineers Creating Our Future



- ▶ **Southeastern Michigan Section ExCom (admin) meetings:**
 - In person once every Quarter (March, June, September and December)
 - Other months it is held virtual using Webex
 - Full list of Section Admin meetings can be viewed at: <http://bit.ly/sem-ieee>
 - Training on IEEE tools, resources and Chapter expectations – ONLINE training available
 - Constantly updated versions of past events
 - History Activity
 - New volunteers
 - Numerous technical events (highest in R4), thanks to the technical chapters!

- <http://bit.ly/sem-upcoming> (all activities)
- <https://r4.ieee.org/sem/sem-calendar/>

- **Southeastern Michigan Section Website:** <https://r4.ieee.org/sem/>
- SEM Facebook Page: <https://www.facebook.com/groups/ieeesemich>
- SEM LinkedIn Page: <https://www.linkedin.com/groups/1766687/>
- SEM X (formerly Twitter) Account: <https://www.twitter.com/ieeesemich>
- SEM Collabratec Workspace (new)
- <https://ieee-collabratec.ieee.org/app/workspaces/5979/IEEE-Southeastern-Michigan-Section/activities>
- SEM Collabratec Community (new)
- <https://ieee-collabratec.ieee.org/app/section/R40035/IEEE-Southeastern-Michigan-Section>
- SEM Instagram (under development): <https://www.instagram.com/ieeesemich/>