

Status Reports

Thursday, January 12, 2022

ExCom contact information

How can I contact Admin members of the Section?
Use any of the following:

Chair:	<u>chair@ieee-sem.org</u>
Vice Chair:	<u>vicechair@ieee-sem.org</u>
Treasurer:	<u>treasurer@ieee-sem.org</u>
Secretary:	<u>secretary@ieee-sem.org</u>

NEWLY ADDED: conference@ieee-sem.org

- Held ExCom Committee Teleconference on <Date>
 - *XXX attendees*
- Technical event held on <date> at <location>
 - *YYY IEEE members, ZZ non-members*
 - Additional Summary
 - (Add pictures if you'd like)
- Next Admin meeting
 - <date>
- Next Technical Event(s)
 - Summary
 - **ADD a Link to vTools registration**
 -

Chapter 1: (SP01) Signal Processing, (CAS04) Circuits and Systems, and (IT12) Information Theory Society

Chair: Jeff Dulzo



Past events

1. IEEE SEM Chapter 1 Co-sponsor **An outlook on beyond 5G - 05Dec2022 8PM - Prof. Merouane Debbah.**

Upcoming events

1. IEEE SEM Chapter 1 EXCOM meeting.

Chapter 03 (AES10) Aerospace Electronics and (COM19) Communications Society

Chair: Patrick Seeling

Past events

1. Collaborative event w/IEEE CommSoc NY end of March

Upcoming events

1. Co-Hosting: VDL - Connecting Space Assets to the Internet: Challenges and Solutions

Other

- 1.

Chapter 04 Trident - (AP03) AP03 Antennas & Propagation, (ED15) Electron Devices, (MTT17) Microwave Theory and Techniques, Photonics Society Chair: Robert Hipple

Past events

1. Nanotechnology for Electrical Engineers, cohosted with CH04128 and CH04144
2. An outlook on beyond 5G, cohosted with CH4049
3. NASA - Megawatt-Scale Nuclear Electric Propulsion Systems

Upcoming events

1. Distinguished Lecturer confirmed - Dr. Jeff Nanzler 'Distributed Phased Arrays: Challenges and Recent Progress' - Feb date TBD

Haven't heard back about the other two

another is IEEE SEM Trident (Grbic), and a third is an expert in QIS.

Trident would like to cohost encore performances of two Quantum Computing events:

INTRODUCTION TO QUANTUM COMPUTING

ENGINEERING NANOSCALE DEVICES FOR NOVEL COMPUTING PARADIGMS

Chapter 05 (C16) Computer Soc Chair: Subramanian Ganesan

Past events (December 2022)

1. In December we held 3 technical events and 1 administrative meeting

January 2023 Events

1. We are planning the January events and expect 3 technical events in January
2. We expect to have more active 2023, more than last year.
3. On Jan 14, 2023, we plan to have a Chapter 5 admin meeting on a Saturday morning to plan 2023 events. This is to convene the newly elected 2023 Chapter 5 admin committee.
4. Planning also for a hands on workshop on May 6, 2023. Details will be announced later.

Chapter 2 (VT06) Vehicular Technology Society

Chair: Jennifer Dukarski



Past events

1. Internal discussions regarding relaunch of topics

Upcoming events

Other

1. Proposed: Status of ICE, date: TBD

Chapter 06 (GRS29) Geosciences and Remote Sensing Society

Chair: Leland Pierce

Past events

1. ALUMNI OF THE YEAR: DR. SHANNON BROWN, Nov 17, 2022. approx 115 attendees, 37 ieee members.
2. DISSERTATION DEFENSE: A NOVEL MULTISTATIC SAR FOR SUBSURFACE IMAGING: DETECTION AND LOCALIZATION OF BURIED PIPELINES AND LEAKS, speaker: Abdulrahman Aljurbua of The University of Michigan, Oct 24, 2022. approx 59 attendees, 27 ieee members.

Upcoming events

1. TBD

Other

Chair (Leland Pierce) has attended the GRSS AdCom meetings in March, July, and November of this year.

Chapter 07 (PE31) Power Engineering, (IA34) Industrial Applications Society
Chair: Looja Tuladhar



Past events

1. Admin meeting every 1st Monday

Upcoming events

1. Looking for IAS, ECCE, IAS Detroit conferences

Other

1. <https://events.vtools.ieee.org/m/342326>

Chapter 08 EMC (EMC27) Electromagnetic Compatibility Society Chair: Scott Lytle

Upcoming events

January 19: Monthly Technical Meeting

Smart Grid EMC Standards

by Jerry Ramie

- On-line Meeting

<https://events.vtools.ieee.org/m/341800>

**New STEM Program started at Ypsilanti
District Library:**



<https://www.emcsociety.org/wp/>

Chapter 09 (IE13) Industrial Electronics, (PEL35) Power Electronics Society
Chair: Looja Tuladhar, Past Chair: van Wagner!

Past events

Admin meeting Dec 9

Other

1 Transition to new officers

Chapter 10 (TEM14) Technology and Engineering Management Society
Chair: Mark Robinson, Vice Chair & Sec.: Ray Sasinowski

Events

- 12/14 EXCOM & 2023 planning events
- 1. Consultant 101 event held 6/21 via virtual meeting
- 2. Speaker Al Gunther on the topic of becoming a technical consultant.

Going forward I will include Consultant & YP groups as co-sponsors of TEMS events to increase attendance at events.

Chapter 11 (EMB18) Engineering in Medicine and Biology Society

Vice Chair: Maurice Snyder, Chair: Patrick Rye

Past events

1. Co-hosted Meeting in January

Upcoming events

Other

1. Admin Meetings First Tuesday of every month

Chapter 12 (CS23) Control Systems Society

Chair: *Ben Gonzalez*

Upcoming events

1. Completed Requirements for 2022 thanks to help from fellow Chairman in IEEE Region 4
2. Met with Chad Harnish (D Space) Jan 11 to plan new Technical Events for 2023.

Also looking at alternative presentations videos, etc... for technical presentations this year.

Chapter 13 (E25) Education Society

Chair: Sharan Kalwani

Past events (2022)

1. Held several events already, L31 quota ***more than complete! Expect a repeat in 2023***

Upcoming events

1. Several events already scheduled!
 - January 10th
 - January 13th
 - January 17th
2. Planning special event in early Winter 2023, targeted specifically for students!
 - ***(How to select a good research topic)***
3. Open to suggestions, possible joint events, etc.

Other

Chapter 14 (RA24) Robotics and Automation Society

Chair: CJ Chung

1. Past events:

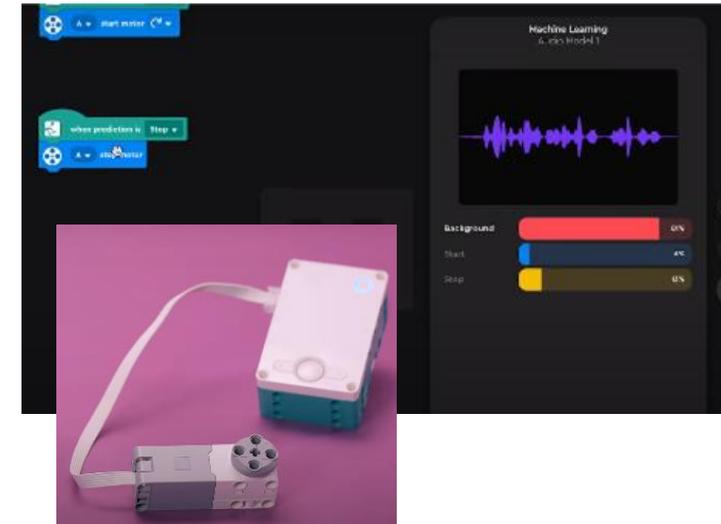
Robofest Final Kick off on Jan 7, 2023

1. Upcoming events:

- ML with Lego robots & Scratch @LTU: Sat, Feb 4, 2pm-4pm; Contact cchung@LTU.edu to reserve a seat
- Robofest Warmup & Judge training @LTU:
Saturday, Feb 11, 2023 1:00 PM - 4:30 PM

2. Other: The largest international IEEE robotics conference, IROS 2023, is coming to Huntington Center (old COBO).

- Date: Oct 1-5, 2023
- Last day to submit paper: March 1, 2023
- <https://ieee-iros.org>



2023 - DETROIT
IROS

Chapter 15 (NPS05 or CH04144) Nuclear Plasma Sciences Society

Chair: Robert Hipple

Past events

1. Cohosted Nanotechnology for Electrical Engineers with CH04128 and CH04050

Upcoming events

Feb 1, MIPSE seminar, [New Lens on the Frontier of Matter in Extreme Conditions](#)

Chapter 16 (CIS11) Computational Intelligence, (SMC28) Systems, Man and Cybernetics Society
Chair: Jeffery Mosley

Past events

1. Intelligent Vehicles and Transportation Systems 9 MAR
2. Sent a message to Chapter 16 membership to ask for volunteers for officer positions

Upcoming events

1. Plan to conduct a discussion on Modeling Cognition this month.

Other: NSTR

Chapter 17 (NANO42) Nanotechnology Council

Chair: *temporarily being filled by Section Chair (Sharan Kalwani*

Past events

1. Two events held in December, completed the L31 quota!

Upcoming events

1. *Being planned.....*

Other

Consultants Network Affinity Group: (CN40035)

Chair: Sharan Kalwani

Past events

1. Held several events

Upcoming events (2023)

1. One event planned - Time management in March....

Other

1. Looking to fill at least 1 Admin position: Secretary

Life Member Affinity Group: (LIFE)
Chair: Harpreet Singh

Past events

1. IEEE SEM LAG Holiday Music Event on Dec 20, 2022
<https://events.vtools.ieee.org/m/339957>
1. Team meeting for planning Doctoral Seminar on Jan 11, 2022

Upcoming events

1. IEEE LAG group planning doctoral seminar in the joint program with Wayne State University ECE Dept on Jan 25, 2023.

Other

Women in Engineering Affinity Group: (WIE)

Chair: Gozde Tutuncuoglu

Past events

1. December admin meeting
2. Got confirmation from both MSU and Wayne State regarding Science Day/STEM Day participation applications.

Upcoming events

1. Wayne State and MSU Science/STEM Day participations (still waiting to hear back)
2. Discussing about technical seminars

Other

Young Professionals Affinity Group: (YP)
Chair: Ms Amar Dabaja

Past events

1. December: co-hosted "Key Enabling Aspects for Long Distance Power Cables "

Upcoming events

1. TBD - training ongoing for new team

Other

Technical Activities
Chair: *Jeffery Mosley*

Past events

1. Monthly meetings 3rd Monday at 12 Noon EST

Upcoming events

2. Ch 3 and Ch 11 (Robert Hipple). Planning to engage with some of the chapter members directly;
3. Ch 12 (Yoongsoon Yoon). Reconnecting with the chapter leadership
4. YA and Ch 14 (Aneesh Mathai). Working
5. Ch 16 and Ch 17 (Jeff Mosley).
6. Continuing to provide the monthly Section Health report for “Wavelengths”

Technical Activities

Chair: *Jeffery Mosley*

2022 IEEE SE Michigan Section Geo-unit Status (Till Nov 28th)									
Ch's & AG's	Ave Tech Mtg. Attend	Ave Tech Mtg Guest	#L31 - Technical	#L31 -Admin	#L31 Professional	#L31 -Other	Geo-Unit Name	# Unreported	Total Mtgs
CnsIt	11	3	1	0	1	0	Consultants Network	0	2
LIFE	0	0	0	0	2	0	Life Members	0	2
WIE	15	3	3	11	0	1	Women In Engineering	0	15
YP	0	0	0	0	0	0	Young Professionals	0	0
1	50	1	3	2	0	0	Circuits & Systems, Signal Proc., Info Th.	1	5
2	32	4	6	1	0	0	Vehicular Technology	0	7
3	66	0	1	0	0	0	Aerospace & Elec. Sys., Communications	0	1
4	66	0	1	0	0	0	Trident (Ant, Elect Dev., uWave, Photo)	0	1
5	27	6	44	8	6	1	Computers	4	59
6	59	32	1	0	1	0	Geoscience & Remote Sensing	0	2
7	27	6	3	6	0	0	Power Engineering, Industrial App.	0	9
8	54	31	11	11	0	1	Electromagnetic Compatibility (EMC)	1	23
9	24	4	3	1	0	0	Power Electronics, Industrial Electronics	0	4
10	6	2	2	0	0	0	Engineering Management	0	2
11	55	37	1	2	0	0	Eng. in Medicine & Biology	0	3
12	0	0	0	0	0	0	Control Systems	0	0
13	24	7	16	4	1	1	Education	0	22
14	7	4	2	0	0	0	Robotics & Automation	0	2
15	46	23	7	0	0	0	Nuclear Plasma Science Society	1	7
16	78	0	1	0	0	0	Computational Intelligence / Sys.Man.Cyber.	0	1
17	0	0	0	0	0	0	Nano Technology Council	0	0
SEM	38	10	5	26	3	0	SEM (Section)	1	34
	684	171	111	72	14	4	NOTE: Highlight Green = Active	8	201
		25%					NOTE: Highlight clear = Concern		

Education Committee:
Anthony Will

Past Activities

1. .

Upcoming Actions

Information Management Coordinator:
Kimball Williams

Past Activities

1. Added election results for 2023 officers to top of SEM Website in the 'About SEM' tab.

Upcoming Actions

1. Locate and train a replacement IMC.

Discussions on the removal of non-functional officers.

Elected (Chapters / Affinity Groups)

Appointed (Section level Committees / Student Branch Advisors)

Student Activities

Chair: Mel Chi, Mike Anthony, Robert Hipple

Upcoming events

1. Follow up FRIB tour on January 27, Dr. Brad Sherrill, FRIB Scientific Director to speak, also tour of cryogenics
2. Third Visit to [Fairlane Hydroplant Scheduled March 31.](#)

Other

Member Development
Chair: Mohamad Berri

Past events

1. 1st Senior Elevation occurred on April 9th
2. 2nd which was planned for October - took place on 1st (Sat)

Upcoming events

1. Perhaps more in early 2023!

Other

PACE (Professional Activities Committee for Engineers)

Chair: Sharan Kalwani

Past events

1. One PACE event: a Govt update - David Mindham
 - <https://events.vtools.ieee.org/m/320972>
2. Two PACE specific seminars conducted in July 2022
 - “Root Cause Analysis” and “Introduction to Agile Methods”! Both very popular
3. Two PACE specific seminars done in **August, 2022**
Topics are: “RCA”, and “Critical Thinking”
<https://events.vtools.ieee.org/m/319019>

<https://events.vtools.ieee.org/m/321050>

Venue was Oakland University, room HH 113

- ❖ We will repeat all of the above in 2023 and add more, *but only if there is a request!*

News - Print & Electronic Communications

Team:Sharan Kalwani, Nilesh Dudhaia, Akio Fujimaki, Kimball and others...

Upcoming events

1. Share events with us or tell us about recent events conducted, so others can enjoy your success.
2. December edition is now out!

Other:

1. Alert wavelengths@ieee-sem.org if **anyone** is not receiving their digital issue!
2. New:

You can add folks interested in receiving our monthly edition using the google docs link:

<https://forms.gle/z2WkTxKRChoWy2uv9> (called **Add me** in the eNotice sent out)

Sections Conference Committee

Team: Keyur Patel, Sharan K, CJ Chung, Van W, Akio, Robert Hipple, David Mindham, Ravi Nigam, Malcolm Lunn, and potentially others...

Past Events:

1. Spring 2023 Event Venue = Lawrence Tech University (1/12)
 - a. Registration will start soon on vTool (<https://events.vtools.ieee.org/m/328899>)
2. 2 out of 3 - Keynote speaker confirmed (1/12)
 - a. Discussion with Lawrence Tech President as 3rd Speaker is in progress
3. Poster - Activity started by Faisal (1/12)
4. Initial Event Budget Cost estimated (1/12)
 - a. [need to find format from collabrateg]
5. Marketing help required (1/12)

Upcoming events:

1. Section Conference Event - **28th March 2023**, Tuesday, LTU

“IEEE 2023 Symposium Powering the future of Engineering”

contact us conference@ieee-sem.org

Student Representative

Chair: *Md Arifuzzaman Faisal* (faisalmd@msu.edu)

Past events

1. Reached all universities IEEE student branch to circulate flyer of the section March 2023 Conference.
2. Trying to make live MSU IEEE website. Working with Robert Hipple.

Upcoming events

1. Student poster proposals review for the conference with Dr. Chuyang Yang.
2. FRIB tour on January 27

Wayne State University: (STB02251)
President & Vice-president: Sara Kape
Faculty advisor: Gozde Tutuncuoglu

Past events

1. Change of leadership position

Upcoming events

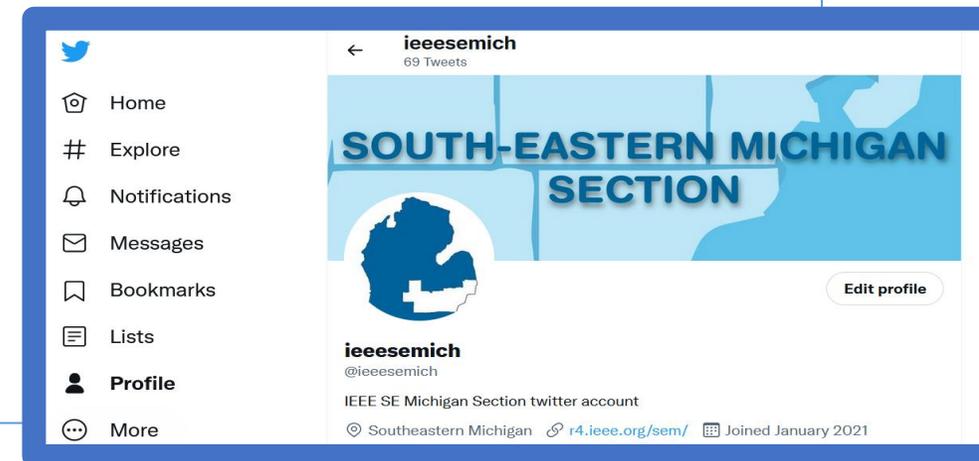
1. To be discussed (Hopefully Sara will attend the next meeting)

Other

Section Level Overview:

Recent updates:

- ❖ New officer training in progress!
- ❖ check this URL for individual sessions (chair/vice chair/etc)
- ❖ https://events.vtools.ieee.org/events/search?utf8=%E2%9C%93&_sub=true&q=training&ou=R40035+--+Southeastern+Michigan+Section&d=Upcoming&commit=Search



Section Level Overview:

Events of note:

1. Section conference - Spring 2023 (tentative) Keyur Patel - contact!
Section will be supporting it 100%, Student posters etc will be welcome (Question - regarding vtools)
2. Section Budgets input is requested (close date - JANUARY 18th '23)

Section Level Overview:

Our Section is the most active in R4! Our Section (YTD Nov 2022):

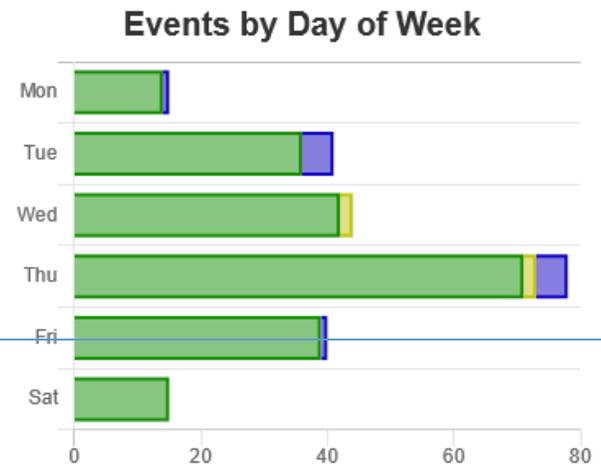
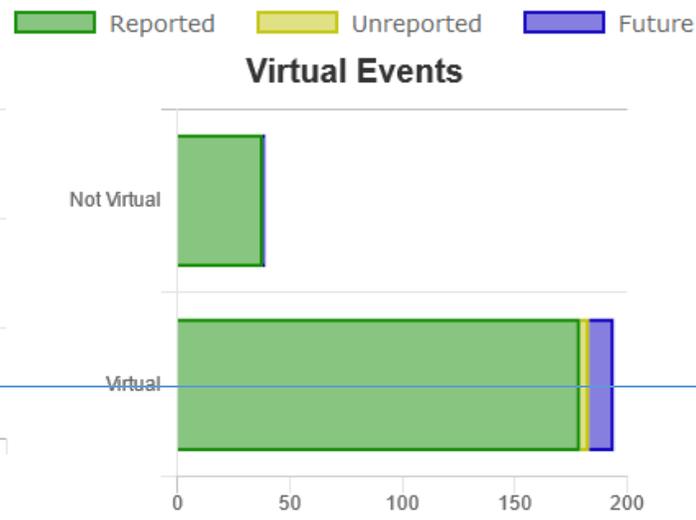
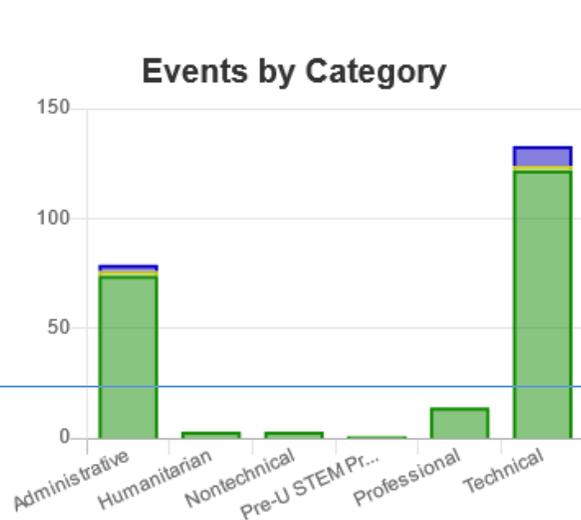
EVENTS ACTIVITY

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	14	133	3	79	3	1	233



Events by Week

Section Level Overview:

Our Section is the most active in R4! Our Section (YTD Dec 2022):

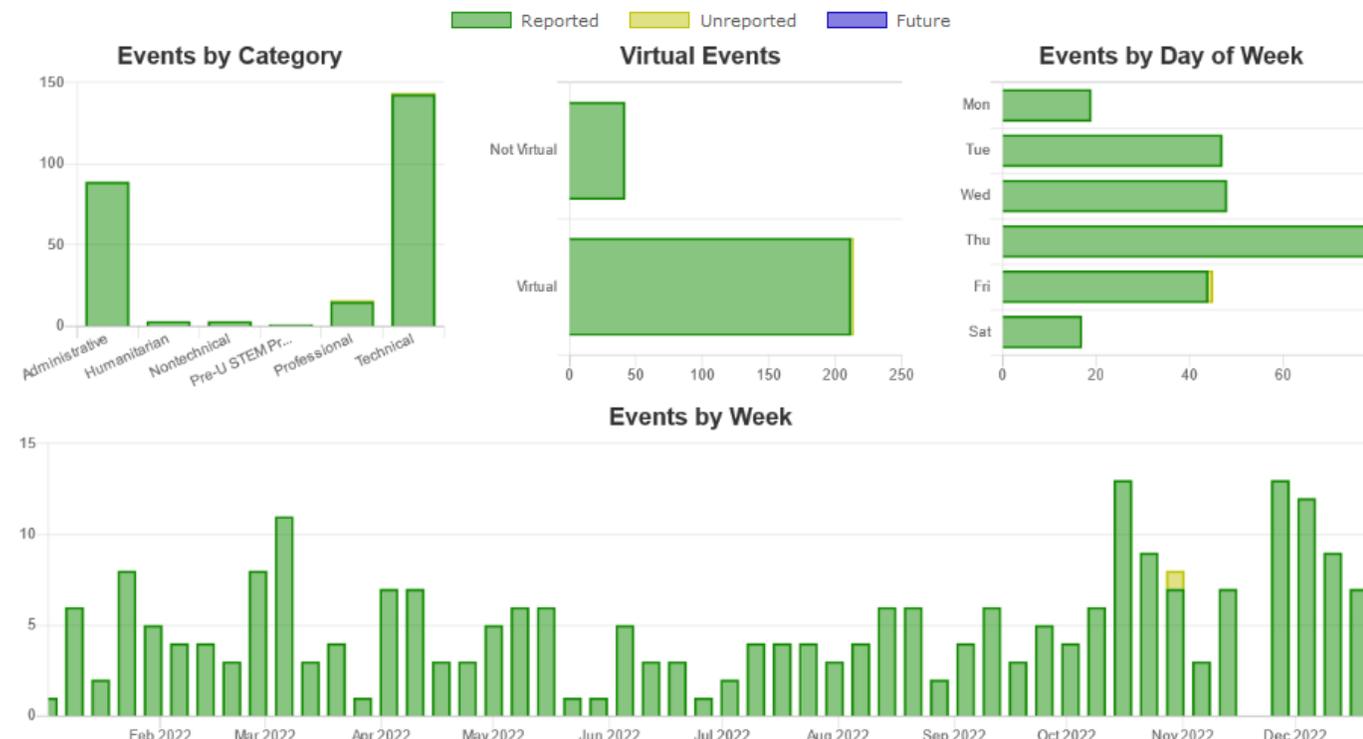
EVENTS ACTIVITY

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	16	144	3	89	3	1	256



Section Level Overview:

Our Section got several awards:

- IEEE Region 4 Outstanding Section
- IEEE Region 4 award for member retention & recruitment
- IEEE-MGA award for member retention & recruitment

One of our Chapters - Computer Society technical chapter received

- Outstanding CS chapter of the year award