

# Status Reports

Thursday, March 9, 2023

## *ExCom contact information*

How can I contact Admin members of the Section?

Use any of the following:

Chair:

[chair@ieee-sem.org](mailto:chair@ieee-sem.org)

Vice Chair:

[vicechair@ieee-sem.org](mailto:vicechair@ieee-sem.org)

Treasurer:

[treasurer@ieee-sem.org](mailto:treasurer@ieee-sem.org)

Secretary:

[secretary@ieee-sem.org](mailto:secretary@ieee-sem.org)

Our Monthly newsletter: [wavelengths@ieee-sem.org](mailto:wavelengths@ieee-sem.org)

**NEWLY ADDED:** [conference@ieee-sem.org](mailto:conference@ieee-sem.org)

# how to use this template.....

- Held ExCom Committee Teleconference on *<Date>*
  - *XXX attendees*
- Technical event held on *<date>* at *<location>*
  - *YYY IEEE members, ZZZ 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

## Upcoming events

1. EXCOM SEM Chapter 1 Planning Meeting - 3/22/2023

# Chapter 2 (VT06) Vehicular Technology Society Chair: Mohamad Berri



## Past events

1. Joint event held on Feb 3rd, L31 filed.

## Upcoming events

1. **At least two more events being contemplated....**

## Other

1. Proposed: Status of ICE, date: TBD
2. Stuff on Electrification -

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

Chair: Patrick Seeling

Past events

Upcoming events

Other

1. Brainstorming on chapter rejuvenation - we need more volunteers
2. Talk by Sharan, to be determined in the near future
3. Outreach to relevant Professors in the area to gather more student interest

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

Abdelhamid Nasr (UM grad student) is new Treasurer, attended officer trainings

### Past events

1. How Ignition and Target Gain  $> 1$  Was Achieved in Inertial Fusion, cohosted with CH04128 and CH04144

Due to technical difficulties, a link to video and slides were sent out via E-notice

### Upcoming events

Moving to Address the Curse of Dimensionality to Enable 'First Principle' Optimal Design in Fusion Systems (Rescheduled date)

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

## Chapter 05 (C16) Computer Soc Chair: Subramanian Ganesan

### **January 2023 Events**

1. We are planning the February events and had 4 technical events in January 2023

### **February 2023 Events**

1. We expect to have more active 2023, more events than last year.
2. On February 25, 2023, we plan to have a Chapter 5 admin meeting on a Saturday morning to network and plan 2023 events.
3. Planning also for a hands on workshop on May 6, 2023. Details will be announced later.
4. We plan to hold multiple events joints with Education society

## 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  
Vice-Chair: Akio Fujimaki



## Past and Upcoming events

### **February 23: Monthly Technical Meeting**

#### **ADAS EMC Testing and Vehicle Antenna Measurement**

<https://events.vtools.ieee.org/event/register/346835>

### **March 16: Monthly Technical Meeting**

#### **Calibrating a Vector Network Analyzer by Keysight**

Both Virtual and in-person

Free Admission

Free Dinner

<https://events.vtools.ieee.org/m/351371>

### **May 25:**

**EMC Fest** by Dr. Todd Hubing and Dr. Eric Bogatin <http://www.emcfest.org>

Chapter 09 (IE13) Industrial Electronics, (PEL35) Power Electronics Society  
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: 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 our Section chair
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 (2023)

1. Held several events (10) already, L31 quota ***more than complete!***

### Upcoming events

1. Two events already scheduled!
  - February 17th (Life of Alan Turing)
  - February 24th (3 short documentaries on Rear Admiral Grace Hopper)
2. Planning special event in end of March 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

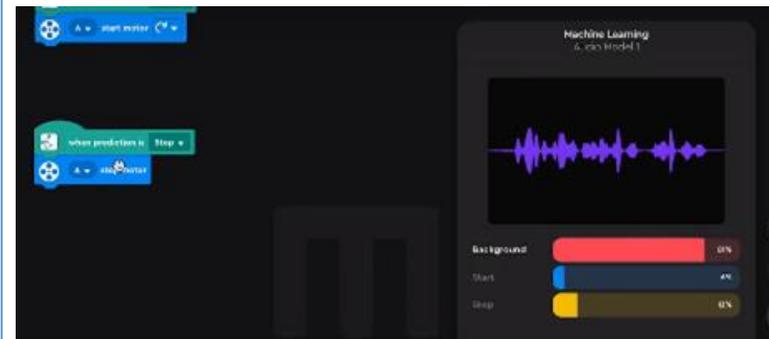
## 1. Past events:

- Robofest Warmup & Judge training @LTU:  
Saturday, Feb 11, 2023 1PM - 4:30 PM
- ML with Lego robots & Scratch @LTU: Sat, Feb  
**25**, 10am-Noon

## 2. Upcoming events

- Robofest Qualifier, Mar 25, 9AM - PM, Macomb  
Intermediate School District, Judges needed
- ...
- Planning meeting in April for Automate Expo, May  
22-25, Huntington Place, Detroit

- ## 3. Other: The largest international IEEE robotics conference, IROS 2023, Huntington Place in Detroit, Oct 1-5, 2023



# Chapter 15 (NPS05 or CH04144) Nuclear Plasma Sciences Society

## Chair: Robert Hipple

### Past events

1. How Ignition and Target Gain  $> 1$  Was Achieved in Inertial Fusion, cohosted with CH04128 and CH04144

Due to technical difficulties, a link to video and slides were sent out via E-notice

### Upcoming events

Moving to Address the Curse of Dimensionality to Enable 'First Principle' Optimal Design in Fusion Systems (Rescheduled date)

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

## Past events

1. NSTR

## Upcoming events

1. Plan to develop more content for general Chapter and Society interest
2. Plan to seek out other co-hosting opportunities.

**Other: NSTR**

## Chapter 17 (NANO42) Nanotechnology Council

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

### Past events

1. One event already held in January, completed half the L31 quota!

### Upcoming events

1. *Welcome to Gordon Burkhead II - our new Vice chair*
2. *Events Being planned.....*

### Other

Consultants Network Affinity Group: (CN40035)

Chair: Sharan Kalwani

## Upcoming events (2023)

1. Five events planned - Time management in March...
  - 2 at Noon, 2 at 7PM, one on Saturday at 9AM F2F. (@Oakland U)
  - <https://events.vtools.ieee.org/m/348951>
  - <https://events.vtools.ieee.org/m/348923>
  - <https://events.vtools.ieee.org/m/348953>
  - <https://events.vtools.ieee.org/m/348948>
  - <https://events.vtools.ieee.org/m/349710>

## Other

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

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

## Past events

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

## Upcoming events

- Wayne State ECE Dept. Seminar Series - Winter Semester
- Nazari-Heris , March 22,2023 ,from 12:30 PM to 2:00 pm  
<https://events.vtools.ieee.org/m/351688>
- lawad April 5,2023,from 12:30 pm to 2:00 pm  
<https://events.vtools.ieee.org/m/351689>
- Sounas April 19,2023, from 12:30 pm to 2:00 pm  
<https://events.vtools.ieee.org/m/351691>

## Women in Engineering Affinity Group: (WIE)

Chair: Gozde Tutuncuoglu

Vice-chair: Ashfiqua Connie

### Past events

1. February admin meeting
2. Region 4 WIE Summit Meetings

WIE Summit meeting will take place in Detroit!

### Upcoming events

1. Technical seminar (*Data-driven Ultrasound and Photoacoustic Imaging for Medical Decision Making* - Prof. Alycen Wiacek from Oakland University - April 12th @WSU harpreetvtools link coming soon)
2. MSU & WSU STEM days (in April - first and last weekend)
3. Region 4 WIE has an event in March 30, we are one of the organizers:

<https://events.vtools.ieee.org/m/347025>

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
2. Lost one member Raees Hameed; No contact from Alan Haag
3. F2F meeting on 24 February

### **Upcoming events**

1. Plan to focus on GAs with only two meetings;
2. Need to work to fill GA roles to get meetings scheduled
3. Section meetings not being counted
4. Suggest Virtual Meeting Standard (IEEE SEM)
5. Plan for to invite the Nomination Committee members to our March meeting (TBD)
6. Plan to develop a Section interest survey to encourage member participation

Technical Activities  
Chair: *Jeffery Mosley*

## Example Survey

- 1. Report Position (i.e. student, professional, retired, other)**
- 2. What format do you receive technical information (e.g., reports, videos, discussions, etc.,)**
- 3. What technical information are you most interested in**
- 4. How many time per week do you engage in virtual and or F2F technical meetings related to IEEE content**

Technical Activities  
Chair: *Jeffery Mosler*

2023 IEEE SE Michigan Section Geo-unit Status (Till Feb 27th)									
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
Cnslt	0	0	0	0	0	0	Consultants Network	0	0
LIFE	0	0	0	0	0	0	Life Members	1	0
WIE	0	0	0	2	0	0	Women In Engineering	0	2
YP	0	0	0	0	0	0	Young Professionals	0	0
1	0	0	0	0	0	0	Circuits & Systems, Signal Proc., Info Th.	0	0
2	26	12	2	0	0	0	Vehicular Technology	0	2
3	0	0	0	0	0	0	Aerospace & Elec. Sys., Communications	0	0
4	39	36	1	0	0	0	Trident (Ant, Elect Dev., uWave, Photo)	0	1
5	31	7	5	0	0	0	Computers	0	5
6	0	0	0	0	0	0	Geoscience & Remote Sensing	0	0
7	200	74	2	0	0	0	Power Engineering, Industrial App.	0	2
8	40	19	3	2	0	0	Electromagnetic Compatibility (EMC)	0	5
9	0	0	0	0	0	0	Power Electronics, Industrial Electronics	0	0
10	0	0	0	0	0	0	Engineering Management	0	0
11	0	0	0	0	0	0	Eng. in Medicine & Biology	0	0
12	24	0	1	0	0	0	Control Systems	0	1
13	17	0	8	1	0	0	Education	1	9
14	0	0	0	0	0	0	Robotics & Automation	0	0
15	39	36	1	0	0	0	Nuclear Plasma Science Society	1	1
16	0	0	0	0	0	0	Computational Intelligence / Sys.Man.Cyber.	0	0
17	27	0	1	0	0	0	Nano Technology Council	0	1
SEM	24	0	1	14	0	0	SEM (Section)	1	15
	466	183	25	19	0	0	NOTE: Highlight Green = Active	4	44
		39%					NOTE: Highlight clear = Concern		

Education Committee:  
Anthony Will

## Past Activities

1. .

## Upcoming Actions

Information Management Coordinator:  
Kimball Williams



## Past Activities

1. Began program to add the identity of SEM Standing committees to the vTools system and align our officers with specific positions.
2. To be continued with a plan to finish by the end of March

## Upcoming Actions

1. Begin to use vTools Officer Report db as the 'gold standard' and align the Officer Roster spreadsheet to agree.
  2. Expect to complete the initial re-alignment by 3/14/2023
- **Discuss a possible 'Fitness Report' of Section Senior officers (Chairs).**
    - Elected (Chapters & Affinity Groups)
    - Appointed (Section level Committees / Student Branch Advisors)

## Student Activities

Chair: Mike Anthony

Member: Robert Hipple

## Upcoming events

1. Third Visit to [Fairlane Hydroplant Scheduled March 31.](#)

Other

Student Branch Mentors  
Chair: Don Price

## Past events

- 1.

## Upcoming events

- 1.

## Other

Member Development  
Chair: Mohamad Berri

## Past events (2022)

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

## 2023 events

1. Next senior elevation is on April 8th  
(<https://events.vtools.ieee.org/m/343961>)
2. More in 2nd half of 2023!

Other

Was: 'Nominations & Appointments' - Now: 'Awards & Recognition' Committee  
Chair: Was *Kimball Williams* Now: ***Jerry Song***

## Past Activities

Converted committee to "**Awards and Recognition Committee**"

- Renamed committee in vTools Section Officers section.
- Promoted Jerry Song to Committee Chair
- Reassigned self to Elections

## Future Activities

- Meet with TacCom to help multiplex our efforts with theirs.
- Work with Education Committee to develop a viable officer training program.

## Awards & Recognition Committee - Continued:

- 1. Need to advertise among the membership for new standing committee officers:**
  - a. Web Communications (WebCom):
  - b. Newsletter
  
- 1. Begin to work to have all Standing Committees meet to discuss overall Section goals and objectives and their place in an overall plan.**
  - a. **NOTE:** It may be necessary to replace committee Chair's who discover that they are never available for a meeting at any time or any place.

PACE (Professional Activities Committee for Engineers)

Chair: Sharan Kalwani

## Past events

1. Three PACE specific seminars were scheduled in March 2023
  - “Root Cause Analysis” and
  - “Introduction to Agile Methods”! Both very popular
  - “Critical Thinking”

Due to low enrollment - re-scheduled to summer 2023

## 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. March 2023 edition is now out! Working on April 2023 now....

### Other:

1. Alert [wavelengths@ieee-sem.org](mailto: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, Robert Hipple, CJ Chung, Faisal, Van W, Akio,, David Mindham, Ravi Nigam, Malcolm Lunn, and potentially others...

### Past Events:

1. Spring 2023 Event Venue = Lawrence Tech University on March 28th, 2023
2. Status: 20 Event Registered, 2 Industrial Sponsor, 1 Wayne Table (3/9)
3. Student Poster Registration: <http://bit.ly/3R00lwk>
4. Sponsorship Registration: <https://events.vtools.ieee.org/m/346701>

### Upcoming events:

1. Section Conference Event - **28<sup>th</sup> March 2023**, Tuesday, LTU  
“IEEE Section Conference Spring 2023 Powering the future of Engineering”

**Early Registration Ended: March 8th, 2023**

**REGISTER**

contact us: [conference@ieee-sem.org](mailto:conference@ieee-sem.org)

<https://sites.google.com/view/isemsc2023>

## Section Student Representative

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

### Past events

1. Update IEEE SEM Spring Conference website and poster Submission form.
2. Circulate flyer to every universities student branch and advisor.

### Upcoming events

1. 15 February, IEEE Student Member Meetup (MSU)

Lawrence Technological University: (STB03921)

Chair: **Lauren Hartline (new)**; Faculty Counselor: Nabih Jaber

From response of Dr. Nabih Jaber to Robert's email,

"I am copying our student branch Chair, Lauren Hartline, on this email. We also have a team of student officers here at LTU in the ECE department. Lauren, will keep you posted on your enquiry. She will also talk to the other team members."

Oakland University: (STB06741)

Chair: **Ali Irshayyid (new)**

Faculty Counselor: Amanpreet Kaur (kaur4@oakland.edu)

Wayne State University: (STB02251)

President & Vice-president: Sara Kape, Faculty Advisor: Gozde Tutuncuoglu

## Past events

1. Annual report submitted
2. IEEE region conference is announced to the students or will be announced?

## Upcoming events

1. Technical Seminars in collaboration with ECE Dept.
2. Fundraising events?

Other

University of Michigan-Ann Arbor: (STB01121)  
Chair: Mitchell Bloch ([mjbloch@umich.edu](mailto:mjbloch@umich.edu))  
Faculty Counselor: Laura Balzano

University of Michigan-Dearborn: (STB94911)

Chair: Faheem Khan <faheemk@umich.edu>

Faculty Counselor: Alireza Mohammadi <amohmmad@umich.edu>

Eastern Michigan University: (STB11091)

Chair: \_\_\_\_\_, Faculty Counselor: Ali Eydgahi <aeidgahi@emich.edu>

University of Detroit-Mercy: (STB00531)

Chair: \_\_\_\_\_, Faculty Counselor:

branch is inactive

Michigan State University: (STB01111)

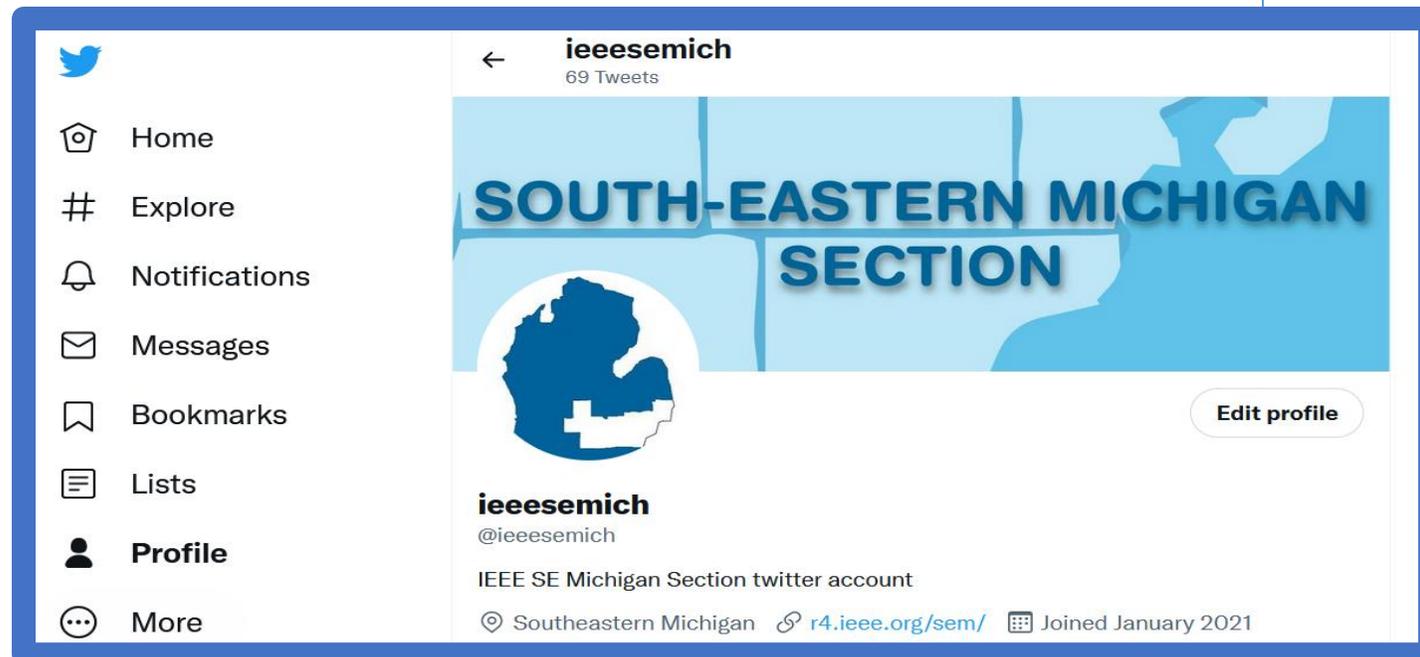
Chair: ***Kosta Sergakis***, <[sergaki1@msu.edu](mailto:sergaki1@msu.edu)> new

Faculty counselor: Wen Li, <[wenli@egr.msu.edu](mailto:wenli@egr.msu.edu)>

## Section Level Overview:

### Recent updates:

- ❖ New officer training in progress! NOW COMPLETE
- ❖ Video recordings are now undergoing post-production and will be posted to the website AND Collabratec (End of March 2023)
- ❖ Region 4 has expressed interest in our work!



## Section Level Overview:

### Other notable updates:

- ★ We have reached out to several student branches, .e.g
  - Oakland University
  - Lawrence Technological University, Southfield
  - Michigan State University
  - Mike Anthony is still working on Eastern Michigan University
  - More planned at:
    - Wayne State University
    - University of Michigan, Ann Arbor
    - University of Michigan, Dearborn - March 16th **scheduled!**
    - University of Detroit-Mercy, Detroit (appears to be dormant/inactive)

## Section Level Overview:

### Events of note:

1. Spring 2023 Section conference - Keyur Patel - contact! Section will be supporting it 100%, Student posters are still open for submission.
2. Our 1st major F2F event since 2019 - we would like to see as many of you attend in person!

# Section Level Overview:



# Section Level Overview:

SE Michigan

## Your Section's Membership Statistics

These tables are designed to give you an idea of where your Section has been and where you want to go. The information needed for these can be found in your Membership Monthly Region Report.

Section Details	Overall Membership Statistics		
	2021	2022	% Change
Higher Grade	2028	2072	2.17%
Students	372	426	14.52%
Total	2400	2498	4.08%

Recruitment	2021	2022	# Change	% Change	2023 2015 Goal
Total Members	334	419	85	25.1%	460

Retention	2022					
	Oppty	Renewals	Renewal Rate	Non-Renewals	Goal	% to Goal
Higher Grade						
Students						
Total	2408	1925	79.9%	483	75.8%	105%

2023 Section Goals	
Recruitment	460
Retention	82.2%

Section Level



# Section Level Overview:

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

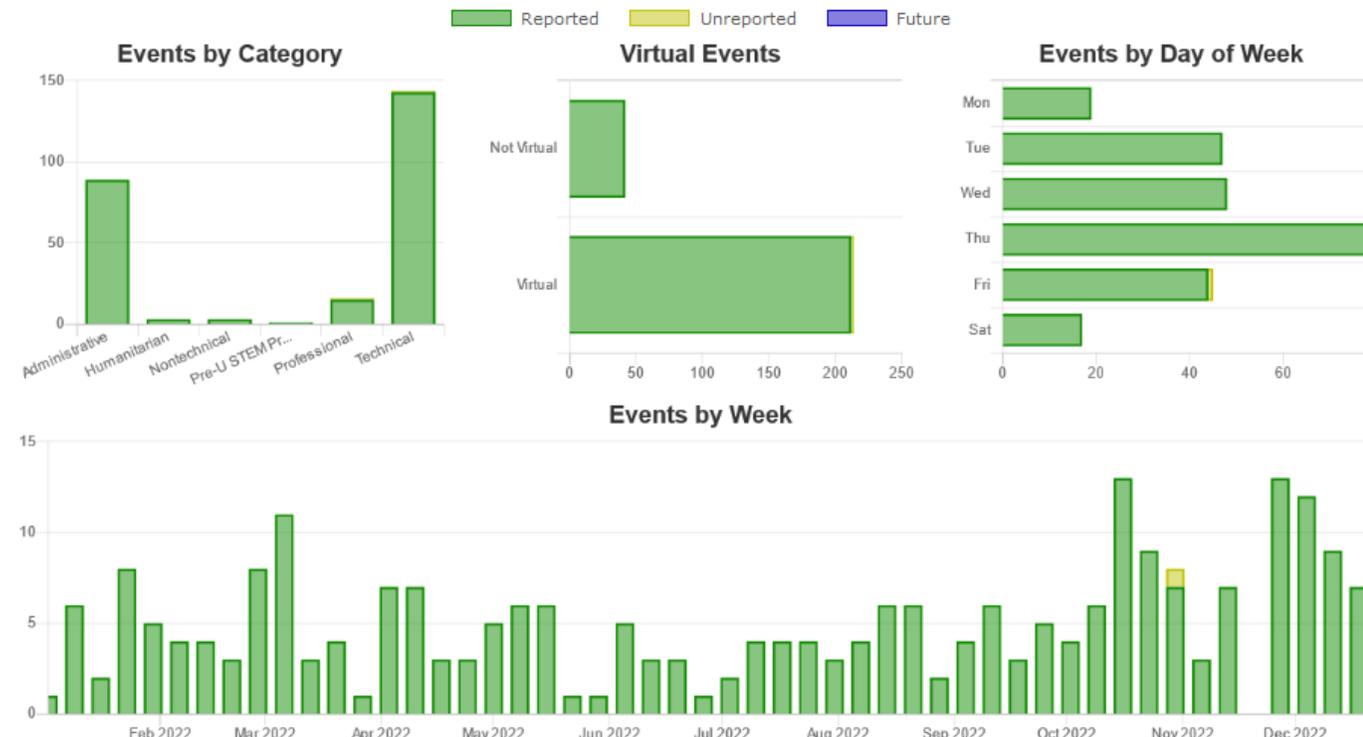
## EVENTS ACTIVITY

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



# EVENTS ACTIVITY

Year ?

2023



Organizational Unit ?

R40035 - Southeastern Michigan Section



Go

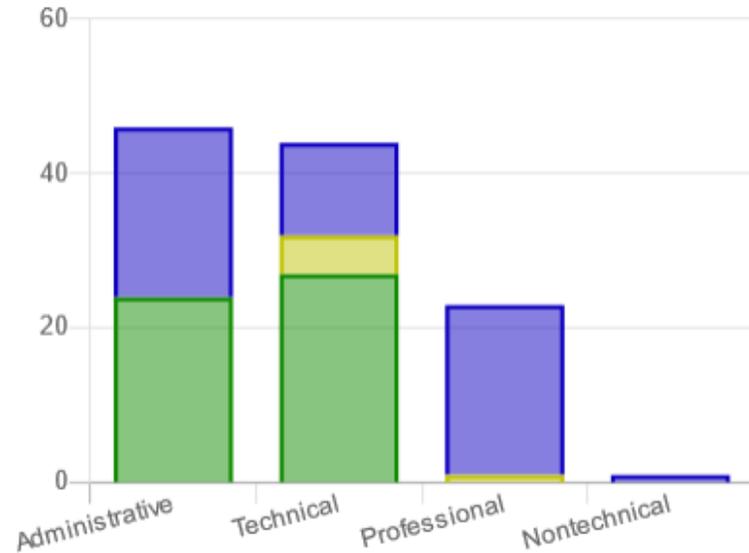
## R40035 - Southeastern Michigan Section Charts ?

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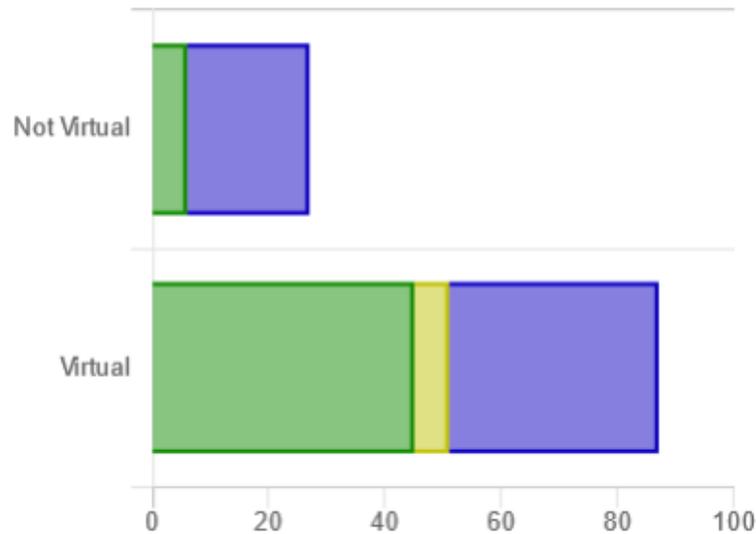
Name	Prof	Tech	Non-Tech	Admin	Hum	Pre-U	Total
Southeastern Michigan Section	23	44	1	46	0	0	114

Reported Unreported Future

### Events by Category



### Virtual Events



### Events by Day of Week

