IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

Status Reports

Thursday, February 9, 2023

ExCom contact information

How can I contact 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

Our Monthly newsletter: wavelengths@ieee-sem.org

NEWLY ADDED: conference@ieee-sem.org

how to use this template……

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- 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

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Upcoming events

1. EXCOM SEM Chapter 1 Planning Meeting - 23Feb2023

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

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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

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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

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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 Nanzer '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

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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

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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

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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

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Past and Upcoming events

January 19: Monthly Technical Meeting

Smart Grid EMC Standards by Jerry Ramie

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

February 23: Monthly Technical Meeting

ADAS EMC Testing and Vehicle Antenna Measurement

by ETS-Lindgren at Ford facility at Dearborn and **ZOOM**

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

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
Chair: Van Wagner

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Past events

Admin meeting Dec 9

Other

1 Transition to new officers

Chapter 10 (TEM14) Technology and Engineering Management Society
Chair: Ray Sasinowski

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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

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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*

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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

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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 (two short documentaries on Rear Admiral Grace Hopper)
2. Planning special event in early 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 (Sorry, I cannot attend the meeting today…)

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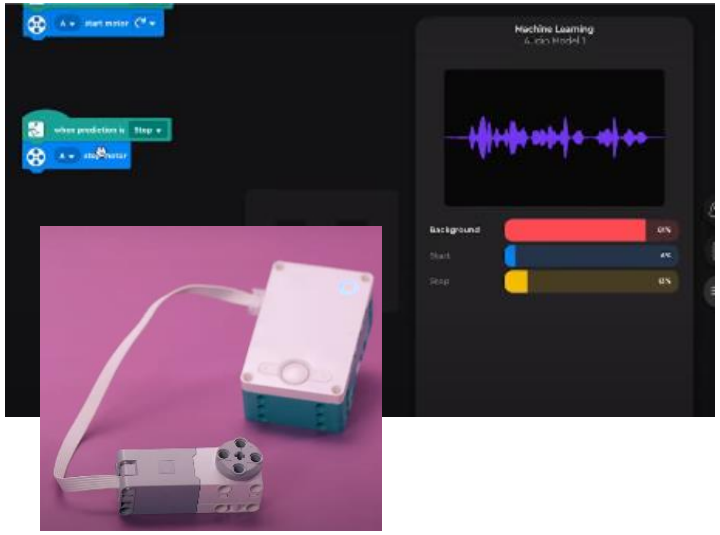
1. Past events:
2. Upcoming events:
   - ML with Lego robots & Scratch @LTU: Sat, Feb **25**, 2pm-4pm; Contact cchung@LTU.edu to reserve a seat.
   - Robofest Warmup & Judge training @LTU: Saturday, Feb 11, 2023 1:00 PM - 4:30 PM
3. Other: The largest international IEEE robotics conference, IROS 2023, is coming to Detroit
   - 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

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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

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Past events

1. Intelligent Vehicles and Transportation Systems March
2. Modeling Cognition Discussion December
3. Sent a message to Chapter 16 membership to ask for volunteers for officer positions

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)*

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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

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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

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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

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Past events

1. January admin meeting
2. Region 4 WIE Summit Meeting

Upcoming events

1. Wayne State and MSU Science/STEM Day participations (in April - first and last weekend)
2. One technical seminar planned April
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

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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*

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Past events

1. Monthly meetings 3rd Monday at 12 Noon EST
2. Lost one member Raees Hameed; No contact from Alan Haag

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
6. Continuing to provide the monthly Section Health report for “Wavelengths”

Technical Activities
Chair: *Jeffery Mosley*

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	0	0	0	0	0	0	Consultants Network	0	0
LIFE	0	0	0	0	0	0	Life Members	0	0
WIE	0	0	0	0	0	0	Women In Engineering	0	0
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	0	0	0	0	0	0	Vehicular Technology	0	0
3	0	0	0	0	0	0	Aerospace & Elec. Sys., Communications	0	0
4	0	0	0	0	0	0	Trident (Ant, Elect Dev., uWave, Photo)	0	0
5	0	0	0	0	0	0	Computers	0	0
6	0	0	0	0	0	0	Geoscience & Remote Sensing	0	0
7	0	0	0	0	0	0	Power Engineering, Industrial App.	0	0
8	0	0	0	1	0	0	Electromagnetic Compatibility (EMC)	0	1
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	0	0	0	0	0	0	Control Systems	0	0
13	14	0	1	0	0	0	Education	1	1
14	0	0	0	0	0	0	Robotics & Automation	0	0
15	0	0	0	0	0	0	Nuclear Plasma Science Society	0	0
16	0	0	0	0	0	0	Computational Intelligence / Sys.Man.Cyber.	0	0
17	0	0	0	0	0	0	Nano Technology Council	0	0
SEM	0	0	0	3	0	0	SEM (Section)	1	3
Tot	14	0	1	4	0	0	NOTE: Highlight Green = Active	2	5
		0%					NOTE: Highlight clear = Concern		

All L31 Reports: 5 5

Education Committee:
Anthony Will

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Past Activities

1. .

Upcoming Actions

Information Management Coordinator:
Kimball Williams

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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,
Member: Robert Hipple

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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

Student Branch Mentors
Chair: Don Price

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Past events

1.

Upcoming events

1.

Other

Member Development
Chair: Mohamad Berri

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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

Nominations & Appointments Committee
Chair: *Kimball Williams*

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Past Activities

1. Announce 2022 Election results - See SEM Webpage.

Future Activities

1. 2023 Officer assignments (confirm & train)
2. Work with Education Committee to develop a viable officer training program.
3. Replace N&ACom officers leaving the committee.

Nominations & Appointments Committee - Continued:

- **New Standing Committee Chairs are needed for the following:**
  - Web Communications (WebCom):
  - Newsletter
  - Nominations & Appointments Committee (NACom):

    This is an opportunity for new leaders to emerge and place their ‘mark’ on the Section and guide us to new opportunities.

    All candidates for Standing Committee Chairs should contact our Section Chair, Sharan Kalwani, to discuss the duties, and receive an official appointment to the position.

PACE (***P***rofessional ***A***ctivities ***C***ommittee for ***E***ngineers)
Chair: Sharan Kalwani

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Past events

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

   Venue will be Oakland University, room EC 254

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. February 2023 edition is now out! Working on March 2023 now….

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)

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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 (2/9)
2. Registration : https://events.vtools.ieee.org/m/328899
3. Student Poster Registration: http://bit.ly/3R00lwk
4. Sponsorship Registration: https://events.vtools.ieee.org/m/346701

Upcoming events:

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

   "IEEE Section Conference Spring 2023 Powering the future of Engineering"

REGISTER

contact us: conference@ieee-sem.org

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

Section Student Representative

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

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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: ?

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Oakland University: (STB06741)
Chair: Moh'd Rasoul Masadeh,
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)

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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 <aeydgahi@emich.edu>

University of Detroit-Mercy: (STB00531)
Chair: _____, Faculty Counselor:

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Michigan State University: (STB01111)
Chair: Mohd Faisal (temp), Faculty counselor: Wen Li, <wenli@egr.msu.edu>

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Section Level Overview:

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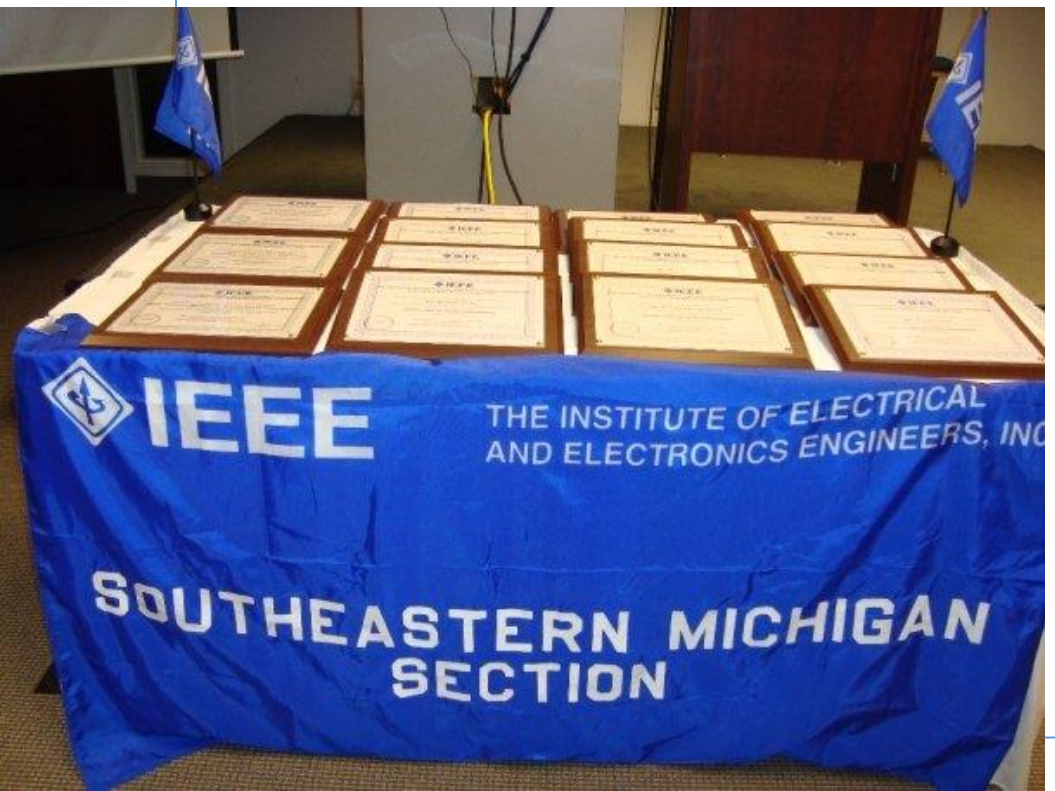
Recent updates:

- 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:

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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. Region R4 meeting - held in Chicago - lots to share, will schedule a meeting in 1st week of March to update everyone. Funding sources, opportunities, events, etc. We will record the meeting and share with all of the officers, so they can take advantage of the many offerings!
3. We received the OUTSTANDING SECTION AWARD!
4. We also received the BEST MEMBER RETENTION AWARD!

Section Level Overview:

Section Level Overview:

Your Section's Membership Statistics

SE Michigan

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	~~2015~~ 2023 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 Overview:

Section Level Overview:

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

EVENTS ACTIVITY

Year: 2022

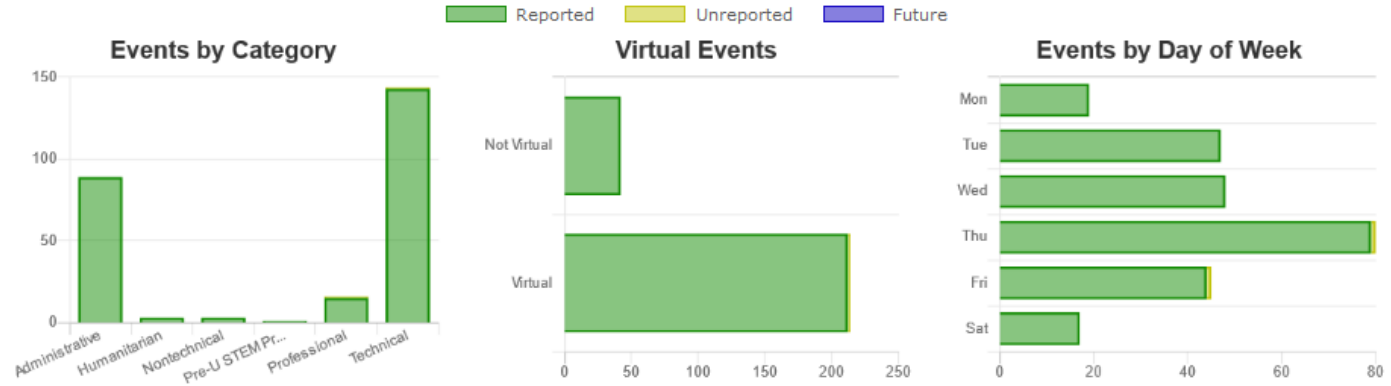
Organizational Unit: R40035 - Southeastern Michigan Section

Go

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:

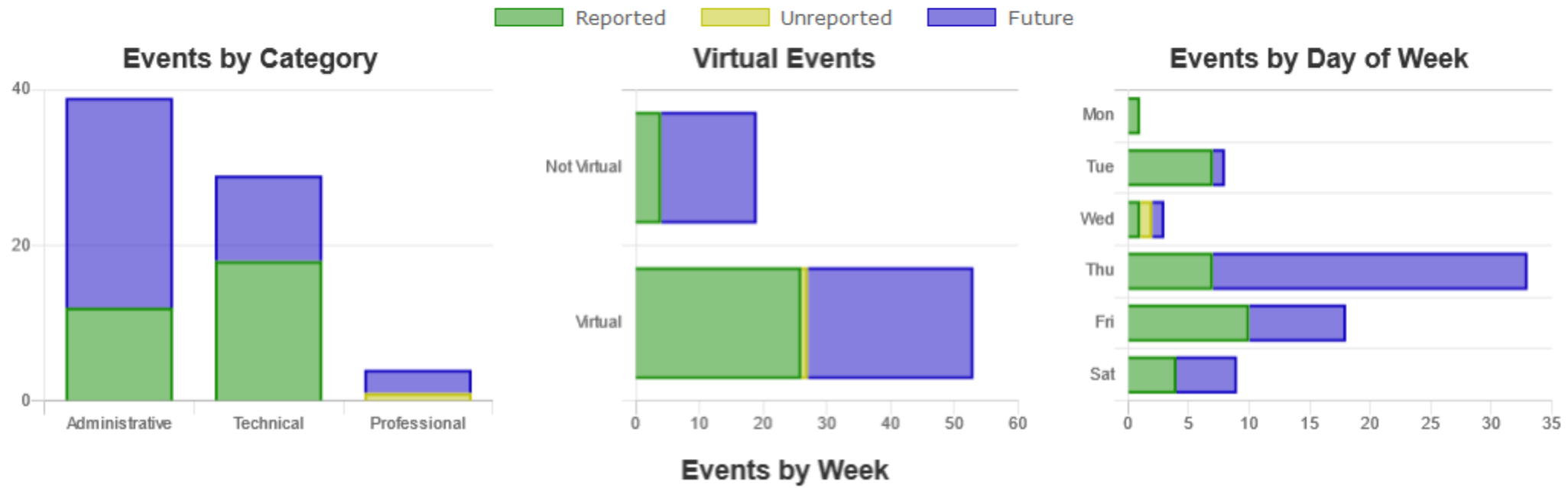
EVENTS ACTIVITY

Year ? 2023

Organizational Unit ? R40035 - Southeastern Michigan Section

Go

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	4	29	0	39	0	0	72