IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

Status Reports

Thursday, July 13, 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
Conference Chair:	conference@ieee-sem.org
Our Monthly newsletter:	wavelengths@ieee-sem.org
Letter to the Editors:	letter@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 possible!)
- Next Admin meeting
  - *<date>*
- Next Technical Event(s)
  - Summary
  - ADD Links to vTools registration
  - ……

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

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Past events

Still planning a Technical Event for September.

Chapter 2 (VT06) Vehicular Technology Society
Chair: Mohamad Berri, Vice Chair: Sharan Kalwani

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Past events

1. Joint event held on Feb 3rd, L31 filed.
2. Joint event held with Chicago VTS chapter: CAVCS of Canada

Upcoming events

1. June 21 - VTS distinguished Speaker event @UM Dearborn….

   https://events.vtools.ieee.org/m/362934

Other

1. Another event planned in August - European Speaker on Automotive Tech, Date: TBD
2. Proposed: Status of ICE, date: TBD
3. Stuff on Electrification -

Chapter 03 (AES10) Aerospace Electronics and (COM19) Communications Society
Chair: Patrick Seeling

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Past events

1. Talk by S. Kalwani on “The Future of Fast Data Center Networks”

Other

1. Still in need for volunteers for main chapter functions

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

Last month:

We have created two new student groups here at MSU. One for AP03 and one for MTT17.

Student group at MSU registration begins at the end of July. This is on my calendar

Working on speakers from this group for the Fall conference

Chapter 05 (C16) Computer Soc
Chair: Subramanian Ganesan

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Filled on July 11, 2023

Future 2023 Events

- We are planning Chapter 5 admin meeting in the 3rd week of July by zoom to discuss future technical events and plan Embedded Systems workshop on 3 Saturdays in October.
- Computer society members took part in the Summer picnic *(July 2nd).*
- *Embedded Systems workshop 2023 (21st time!) October 14, 21 and 23*

July and August 2023 Events

- We are in contact with expert speakers for virtual presentations to our members in August
- We plan to hold multiple events jointly with Education Society chapter and SEM.

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 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
Vice-Chair: Akio Fujimaki Chair: Scott Lytle

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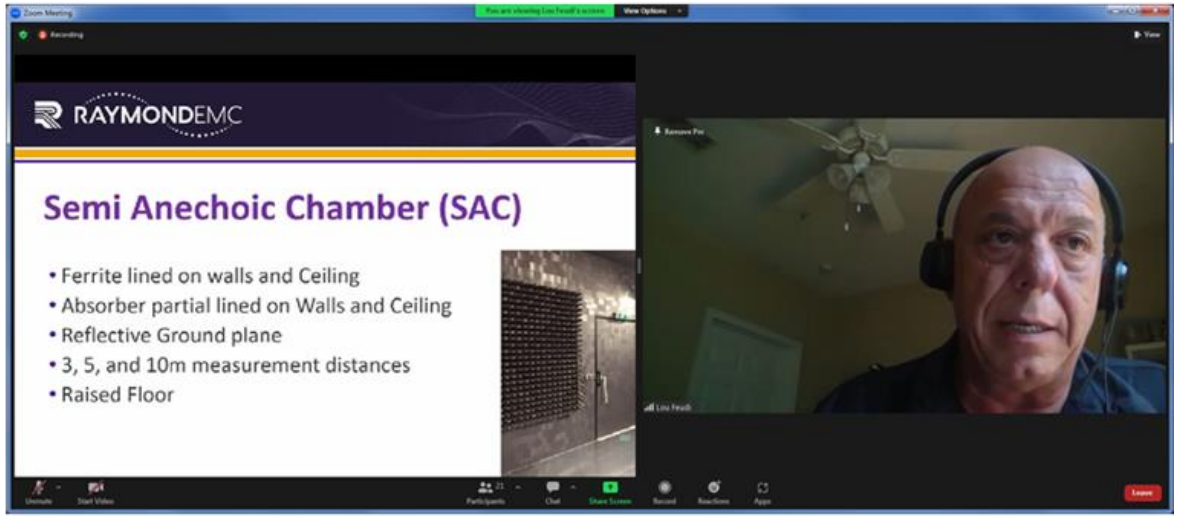
Past and upcoming events

June 28:

Monthly meeting:

Designing a Chamber for Multiple Uses



July: No Meeting

August 17:

Common Misconceptions About Inductance and Current Return Path

September 21: Oktoberfest

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

https://www.youtube.com/channel/UCp4oYcxWpv-IYokH-Dk-9Dg

Chapter 09 (IE13) Industrial Electronics, (PEL35) Power Electronics Society
Past Chair: Van Wagner

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Past events

Sharan contacted a few people who might be interested in serving on Chap 9. One responded. He was interested and they met to discuss. He wanted to move to the next step. I sent him an email inviting him to meet with me last week but have not heard from him as yet.

Other

≈

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

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Current events

- 7/26/23: TEMS chapter EXCOM mid-year status report

Future Topics:

- September : Consultant 101. Speaker Al Gunther
- October: Topic and Book discussion on “Critical Conversations”

Past Meeting:

- 5/17/23: Topic and book discussion on “How to Change” by Katy Milkman. Seven participant.
- 6/28/23: Topic & book discussion on “Next! The power of Reinvention in Life and WORK”

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 second Technical Event April 26, 2023.
2. Having met the annual requirement, we are planning another event in the coming 2 months to present a Robofest Overview.
3. Also looking at alternative presentations videos, etc… for technical presentations later this year, if possible.

Chapter 13 (E25) Education Society
Chair: Sharan Kalwani, Vice Chair: Manohar Das (Oakland University), Secretary: Amar Basu (Wayne State University)

Past events (2023)

Held several events already, L31 quota ***more than complete!***

- ***Running total: 22 (was 20)***

1. Many recent events already completed!
   - May 5th - The Codebreaker - The until story of Elezebeth Friedman
   - May 19th - Electric Airplane Race
   - June - we had 4 tech events!
2. Future Plans
   - Inviting several distinguished speakers to visit us in the Fall 2023 time frame
     - end August/early September
3. Open to suggestions, possible joint events, etc.

Chapter 14 (RA24) Robotics and Automation Society

Chair: CJ Chung

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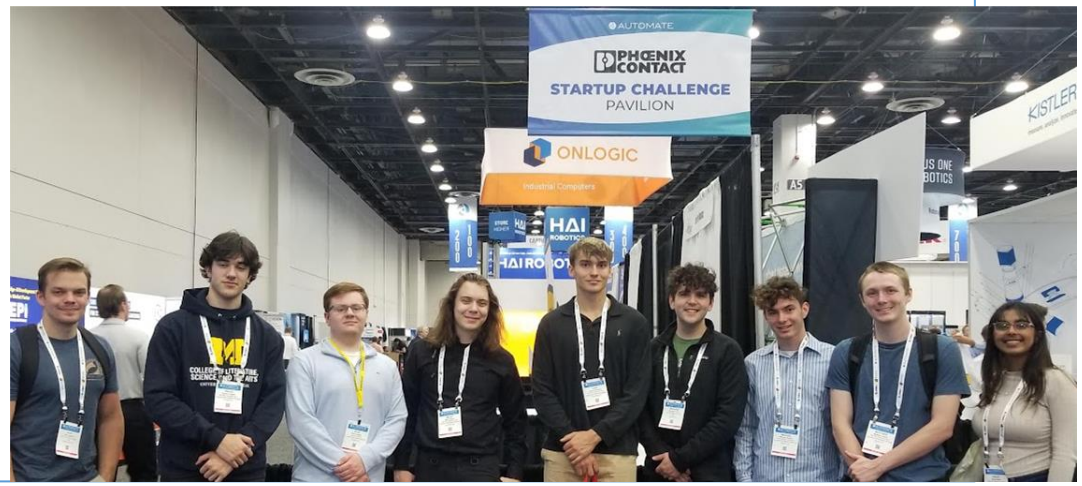
Past events:

Robofest World Championships, May 11-13

Automate Conference/Expo - Judging of best start-up challenge, May 25



Upcoming events

Fall technical meeting planning meeting

Chapter 15 (NPS05 or CH04144) Nuclear Plasma Sciences Society
Chair: Robert Hipple

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No updates at this time, two of the student members are helping with the Fall SEM conference, and their faculty advisor might be a speaker. MIPSE starting up in August.

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

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Past events

1. Held an administrative meeting to discuss technical meeting plans
2. Watching IEEE response to L31 report that submitted for event number 349694

Upcoming events

1. Plan to develop more content for general Chapter and Society interest
2. Plan to seek out other co-hosting opportunities.
3. Working with Ch 1 Circuits and Systems, Signal Processing for joint chapter content

Other: Planning an open discussion on human computer interaction

Chapter 17 (NANO42) Nanotechnology Council
Chair: Sharan Kalwani
Vice-Chair: Gordon Burkhead

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Past events

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

Upcoming events

1. *1 more Event - Being planned for September…..*

Other

Chapter 18 (MAG33) Magnetic Society Chapter
Chair: Steven Louis (out of town at the moment)

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Past events

1.

Upcoming events

1.

Other

Consultants Network Affinity Group: (CN40035)
Chair: Sharan Kalwani

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Completed events (2023)

1. 4 events conducted YTD.

Other

1. Open to more ideas: already collaborating with TEMS for future joint events

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

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Past events

Wayne State ECE Dept. Seminar Series - Winter Semester

- Dr. Tutuncuoglu,Gozde , Jan 25,2023 ,from 1:00 PM to 2:00 pm (The Engineering Devices for Novel Computing Paradigms)
  https://events.vtools.ieee.org/m/363545
- Dr. Xingyu ZhouFeb 15,2023 from 1:00 pm to 2:00 pm (Shuffle Private Linear Contextual Bandits)
  https://events.vtools.ieee.org/m/363546
- Dr Morteza Nazari-Heris March 22,2023 from 1:00pm to 2:00pm (Integrating EV Charging Infrastructure into Connected communities)
  https://events.vtools.ieee.org/m/363688
- Dr Alycen Wiacek , April 12,2023 from 12:30 PM to 2:00 pm (Data-driven Ultrasound and Photoacoustic Imaging)
  https://events.vtools.ieee.org/m/351689
- Dr Dimitrios Sounas April 19,2023 from 12:30 pm to 2:00 pm (Analog Computing with Waves)
  https://events.vtools.ieee.org/m/351691
- Dr. Kunal Ghosh April 26, 2023 from 12:30 pm to 2:00 pm (Next gen VLSI Ed-tech: Open-Source tool, RISC-V design)
  https://events.vtools.ieee.org/m/363548

Upcoming events

- Mohammad Asfar Khan, July 13 2023 from 11:00 PM to 12:0 PM (Introduction to Efabless-open source VLSI design tool)
  https://events.vtools.ieee.org/m/366838

Women in Engineering Affinity Group: (WIE)
Chair: Gozde Tutuncuoglu
Vice-chair: Ashfiqua Connie

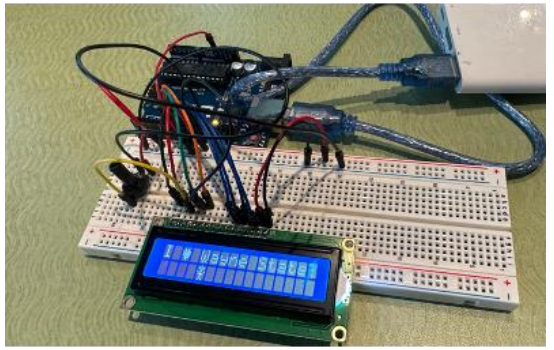
Past events

1. Wayne State STEM days
2. April, May admin meetings
3. Region 4 WIE Summit Meetings:

Upcoming events

1. June admin meeting
2. WIE Leadership Summit: Save the date **November, 3rd**

Other



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

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Past events

1. Admin meeting took place in July to plan upcoming event.

Upcoming events

1. Professional development event in late summer (likely early September).

Other

- Officer roster has been updated in vTools.

Technical Activities
Chair: *Jeffery Mosley*

Past events

1. Monthly meetings 3rd Monday at 12 Noon EST
2. Plan to use Google Meet for upcoming meetings

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. Plan to recommend career guidance discussions for the Section
4. Plan for to invite the Nomination Committee members to our March meeting (TBD)
5. Plan to develop a Section leadership (GA's and standing committee) survey to elicit concerns and successes

Technical Activities
Chair: *Jeffery Mosley*

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Proposed Survey

1. Are you attending the monthly SEM EXcom meetings; if so what's working? If not, why not
2. Regarding engaging your chapter or affinity group. What is working well. If you are not engaging with or receiving interest from your group, what help do you need?

Need EXCOM concurrence

Technical Activities
Chair: *Jeffery Mosley*

2023 IEEE SE Michigan Section Geo-unit Status (Till Jun 29th)

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	4	0	Consultants Network	0	4
LIFE	0	0	0	0	4	0	Life Members	0	5
WIE	25	15	1	5	2	0	Women In Engineering	0	8
YP	0	0	0	0	0	0	Young Professionals	0	0
1	0	0	0	1	0	0	Circuits & Systems, Signal Proc., Info Th.	0	1
2	24	7	4	0	0	0	Vehicular Technology	0	4
3	12	0	1	0	0	0	Aerospace & Elec. Sys., Communications	0	1
4	40	27	3	0	0	0	Trident (Ant, Elect Dev., uWave, Photo)	0	3
5	30	8	14	2	0	0	Computers	0	16
6	161	56	1	0	0	0	Geoscience & Remote Sensing	0	1
7	170	56	4	2	0	0	Power Engineering, Industrial App.	0	6
8	68	33	7	6	4	0	Electromagnetic Compatibility (EMC)	1	17
9	99	43	1	0	0	0	Power Electronics, Industrial Electronics	0	1
10	5	0	2	1	0	0	Engineering Management	0	3
11	0	0	0	0	0	0	Eng. in Medicine & Biology	0	0
12	17	1	2	1	0	0	Control Systems	0	3
13	19	0	20	4	0	0	Education	0	24
14	34	30	2	0	1	1	Robotics & Automation	0	4
15	40	27	3	0	0	0	Nuclear Plasma Science Society	0	3
16	0	0	0	1	0	0	Computational Intelligence / Sys.Man.Cyber.	0	1
17	27	0	1	0	0	0	Nano Technology Council	0	1
SEM	71	25	4	32	1	0	SEM (Section)	1	37
	840	329	70	55	16	1	NOTE: Highlight Green = Active	3	142
		39%					NOTE: Highlight clear = Concern		

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. Writing articles for SEM newsletter (2/Mo - Nominal)

Upcoming Actions

1. Review all Standing Committees ‘Charters’ to ensure alignment with Section Goals & Objectives.

   (Confirm each has been Approved by ExCom.))

Student Branch Mentors
Chair: Don Price

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Past events

1.

Upcoming events

1.

Other

Member Development
Chair: Mohamad Berri

Past events (2022)

1. Senior elevation took place on April 8th (https://events.vtools.ieee.org/m/343961)

New 2023 events

Next event is on July 22nd, 2023 https://events.vtools.ieee.org/m/365395 (9 folks have signed up already!)

Was: ‘Nominations & Appointments’ - Now: ‘Awards & Recognition’ Committee
Chair: ***Jerry Song***

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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.

1. **Need to advertise among the membership for new standing committee officers:**
   a. Web Communications (WebCom):
   b. Newsletter

1. **Begin to work to have <u>all Standing Committees</u> 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 (***P***rofessional ***A***ctivities ***C***ommittee for ***E***ngineers)
Chair: Sharan Kalwani

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Past events

1. Three PACE specific seminars to be scheduled in late summer 2023 (August), venue will be Oakland University
   - “Root Cause Analysis” and
   - “Introduction to Agile Methods”! Both very popular
   - “Critical Thinking”

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. JULY 2023 edition is now out! Working on AUGUST 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)

Sections Conference Committee

Team: Keyur Patel (Chair), Sharan K (Vice Chair), Robert Hipple (Co-Vice Chair), Ramesh (Finance), Jerry (Award), Mohammed Berri, Ryan Carthage

Past Events:

1. Fall Planning meeting started every Friday 12:00 PM to 1:00 PM - virtually (6/8/2023)
2. Fall Conference will include: Technical track, student poster competition, demo, technical presentation, dinner and networking
3. Requesting individual Chapter chair - Submit your proposal for track
4. **Upcoming events:**

MSU Kellogg Center available for **October 18, 2023 Wed**. **(Contract needs to be signed)**

Title to include all three student groups:

“Engineers Solving Megatrend and Nanotrend Challenges”

1. **Fall 2023 Section Conference Planning meetings**

held weekly from 12-1pm every Friday

registration link : https://events.vtools.ieee.org/m/360935

Section Student Representative

Chair: *Open*

Past events

Upcoming events

Michigan State University: (STB01111)
Chair: ***Kosta Sergakis,*** <sergaki1@msu.edu>
Vice Chair: Vacant
Faculty counselor: Wen Li, <wenli@egr.msu.edu>, Robert Hipple <hipple@msu.edu>

AVS is very interested in having IEEE participate in their upcoming

2023 AVS Michigan Chapter Spring Symposium. This all-day event is scheduled for June 7, 2023 from 8 a.m. – 7 p.m. at the North Campus Research Complex in Ann Arbor, MI.

Lawrence Technological University: (STB03921)
Chair: ***Lauren Hartline (new);*** Faculty Counselor: Nabih Jaber

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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)
Faculty Counselor: Laura Balzano

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University of Michigan-Dearborn: (STB94911)
Chair: Andrew Johnson <johnsoaa@umich.edu>
Faculty Counselor: Alireza Mohammadi <amohmmad@umich.edu>

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Eastern Michigan University: (STB11091)

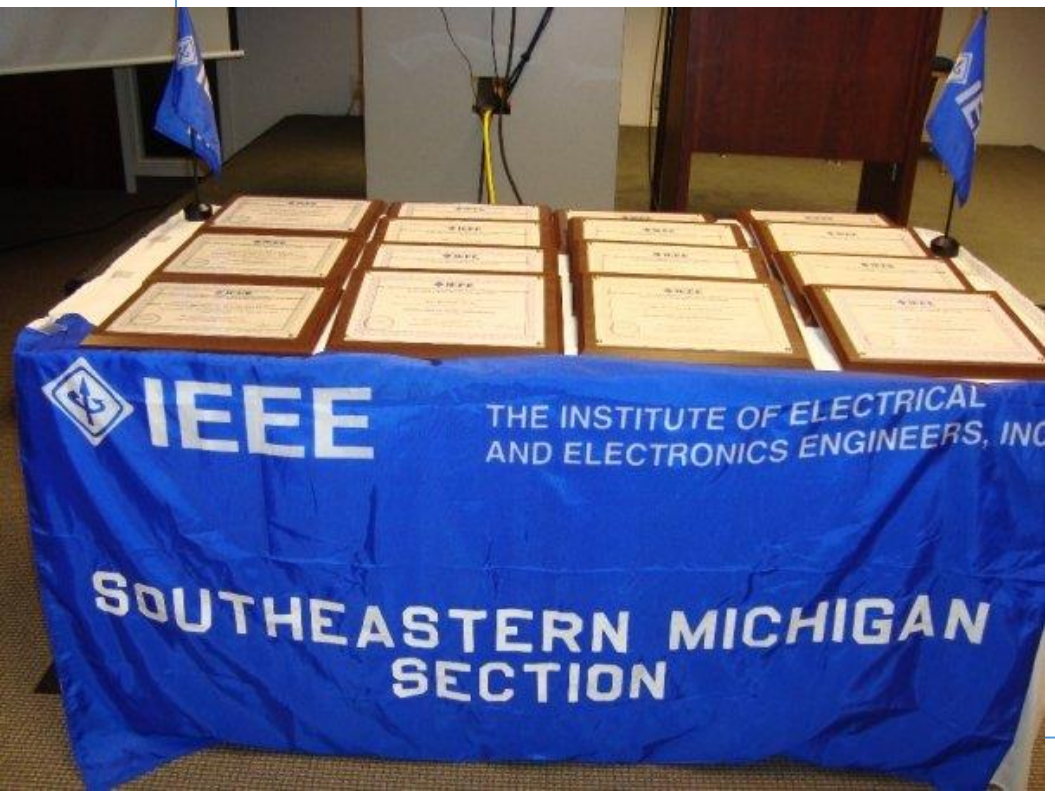
Chair: Caleb Johnson (new), J.T. Puszczewicz <jpuszcze@emich.edu> (vice chair)

Faculty Counselor: Ali Eydgahi <aeydgahi@emich.edu>

Section Level Overview:

Recent updates:

-



Section Level Overview:

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Other notable updates:

- ★ We have reached out to 8 student branches, .e.g
  - University of Detroit-Mercy, Detroit (**scheduled**) - meeting planned with ECE Chair

Section Level Overview:

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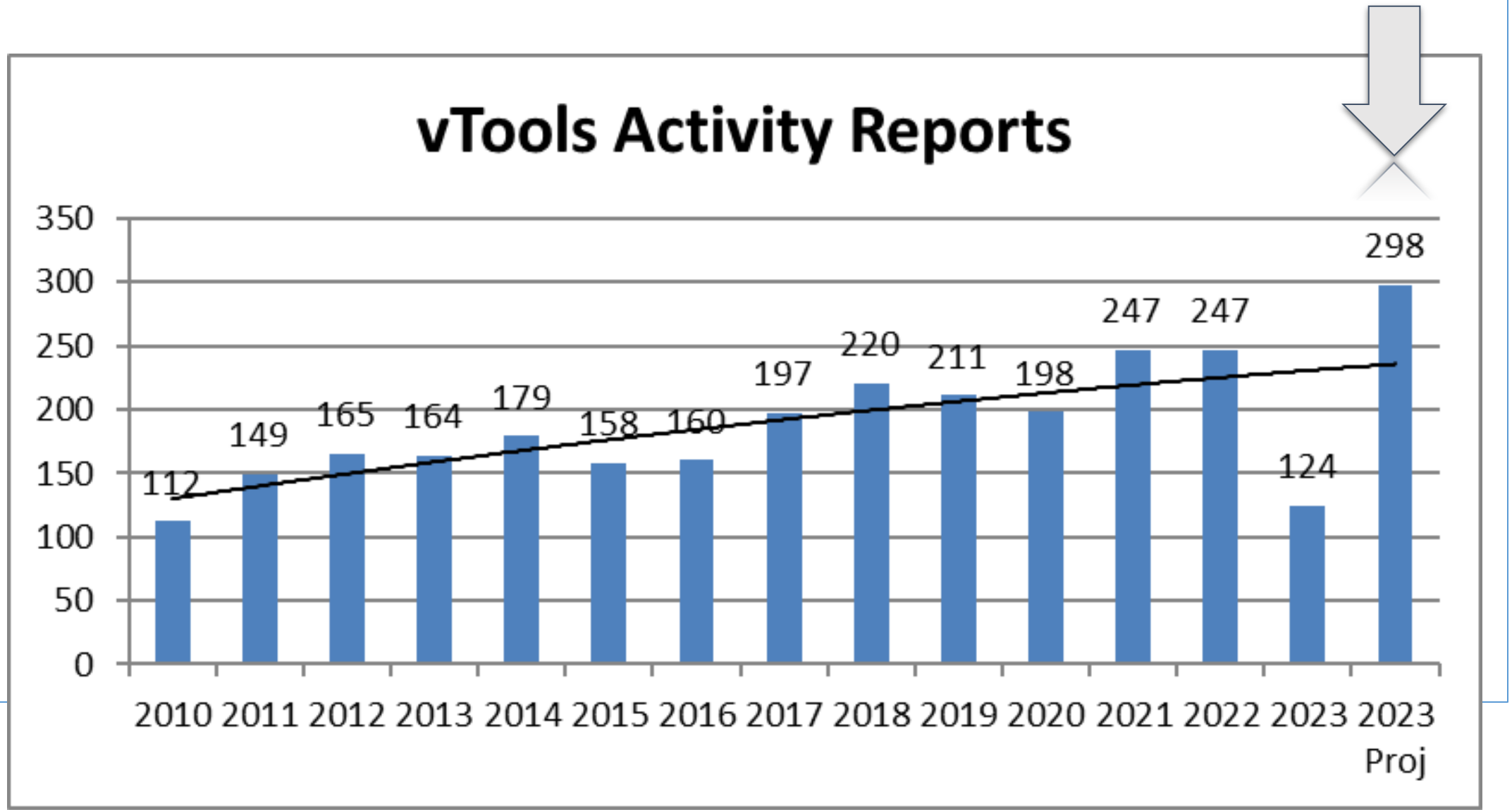
Events of note:

1. Planning soon to start for Fall 2023 conference AND Spring 2024 Conference
2. **Picnic - July 2nd - 18 people despite the rain!**
3. **NOVEMBER 4th - SAVE the date - 60th anniversary of our Section**
    a. Planning a major event, evening dinner/ tour of Museum/Science Center+awards and talks by IEEE leadership

(30th May 2023)



IEEE Southeastern Michigan

Year ? 2023

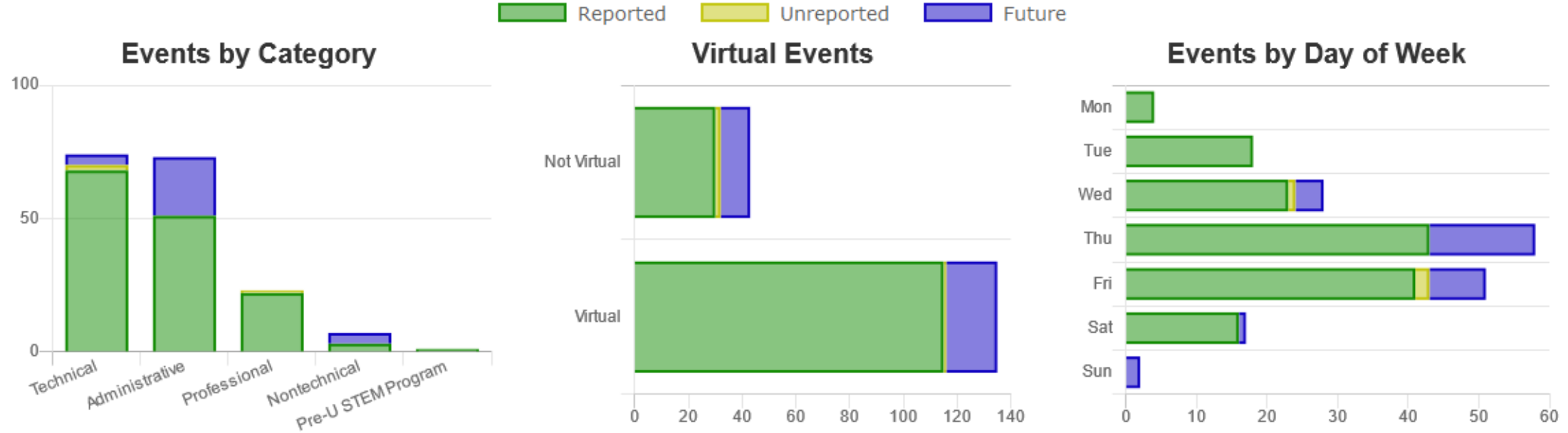
Organizational Unit ? R40035 - Southeastern Michigan Section

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	23	74	7	73	0	1	178



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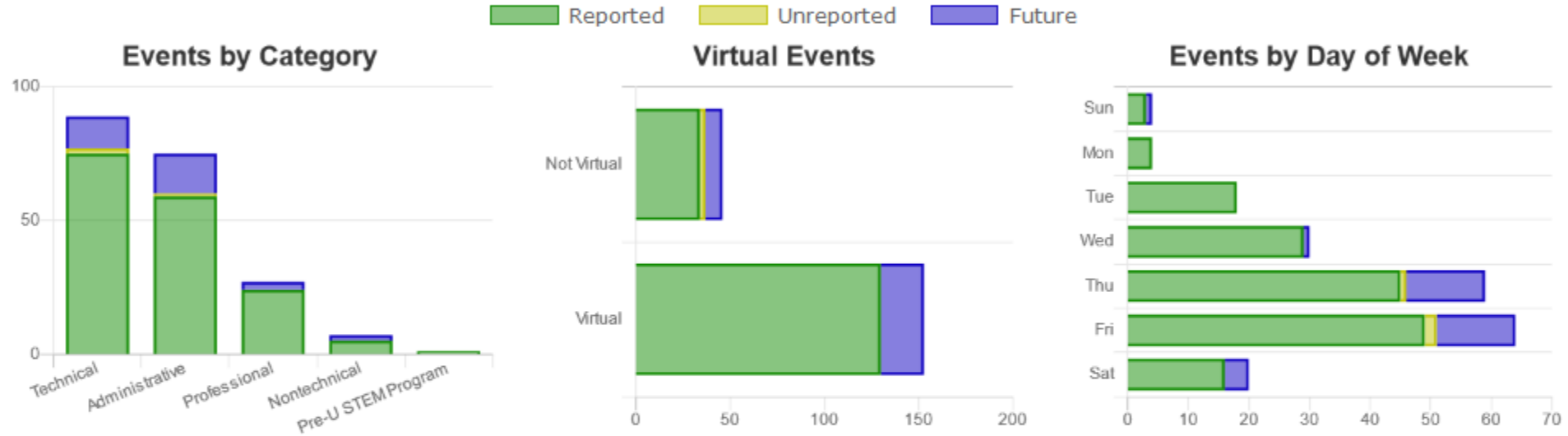
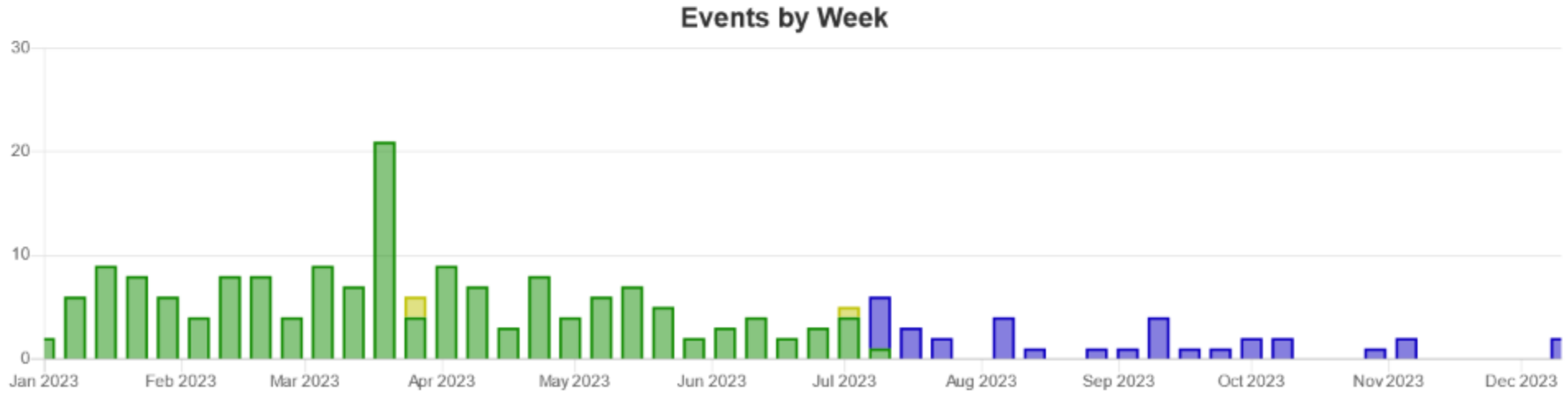
R40035 - Southeastern Michigan Section ts

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	27	89	7	75	0	1	199