Wavelengths

Volume 63 – Issue 07

Contents

Upcoming Events

We have several events coming up this month, all are listed below, FYI.
Note: All times are EST/EDT. If any events are missed do kindly bring them to the attention of wavelengths@ieee-sem.org. Enjoy!
You can also use this bookmark to view All of the links at a single glance
http://bit.ly/sem-upcoming

Event	Date	Time
2023 Summer Potluck Picnic!	02 Jul 2023	12:00 PM
Fall 2023 SECTION CONFERENCE Initial Planning Meeting	07 Jul 2023	12:00 PM
Documentary Night: Your Brain: Perception Deception	07 Jul 2023	04:45 PM
SEM Section ExCom Monthly Meeting (virtual) For JULY 2023	13 Jul 2023	06:30 PM
Fall 2023 SECTION CONFERENCE Initial Planning Meeting	14 Jul 2023	12:00 PM
Documentary Night: Your Brain: Who's in Control?	14 Jul 2023	04:45 PM
EMC Society Monthly tech Meeting	20 Jul 2023	05:30 PM
Fall 2023 SECTION CONFERENCE Initial Planning Meeting	21 Jul 2023	12:00 PM
Documentary Night: Chasing Carbon Zero	21 Jul 2023	04:45 PM
Senior Member Elevation (a Virtual Event!)	22 Jul 2023	09:00 AM
TEMS EXCOM meeting	26 Jul 2023	06:30 PM
Documentary Night: Weathering the Future	28 Jul 2023	04:45 PM

Chair's Column

Coming up this month!
Chapter 5 has scheduled a Summer Potluck Picnic on July 2nd at the Rochester Municipal Park. Several E-notices have been sent out, you can see the flyer.

We have 4 more very interesting documentaries scheduled for our Friday nights to help kick off our weekends. Several of them have been suggested/requested by our IEEE members – thank you for the feedback!

Last year Chapter 5 celebrated the 20th anniversary of their ESW (Embedded Systems Workshop). They have already begun planning to up the ante and are preparing for a massive 3-day event spread over October 14, 21 and 28th. Keep a weather eye out for announcements!

This month we are featuring several of our section members who have achieved senior status. Do feel free to reach out to them and congratulate them on this major milestone. We will be holding another senior elevation event soon (virtual of course – in order to get maximum participation). Look for it on the calendar or contact Mohamad Berri, who is also our Vice Chair of the section (besides being the membership Development chair).

IEEE Day – this year will be celebrated on October 3. I would like to invite ***a volunteer from our Section*** to become the **IEEE Day ambassador** to represent all of us on that day. This is plenty of guidance and tons of official support and assistance from IEEE-HQ available for this. I have done it thrice in the past few years and benefited immensely from this. Feel free to contact me or any of the IEEE Day organizers….

Last month at the Section Executive Committee meeting – I had shared that we may grow our Section by 1 more chapter. Well, the good news is that we did it! Now we are the LARGEST Section in IEEE Region 4 (by way of chapter count). Congratulations to the new IEEE Southeastern Michigan Section Magnetics Society Chapter. And their interim Chair – Steven Louis (he is right now traveling overseas). See the official notification in the member news portion of this newsletter.

Finally, I ask you to help share news about our IEEE Section to fellow engineers. This will help us fulfill the mission and goals, which is to use technology to help society. Do help us gain more visibility – word of mouth, invitations to our tech events, skills, join as members, post our events to your social media feeds, etc.

Sharan Kalwani
Via email: chair@ieee-sem.org
Section members are encouraged to engage using <u>any</u> of these online platforms:

Technical Activities Report

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		

**Status as of June 29, 2023*

Chapter and Affinity group leaders please reach out to the TAcom for any assistance. Chapter and Affinity group members if you have suggestions or requests to host or co-host technical meetings, please contact me via the email below. Your TAcom plans to conduct a survey of Geo-unit and committee leaders to elicit needs and desires to better engage our SEM membership. The TAcom also plans to offer career focused webinars and talks to equip our membership for seeking and or changing employment. These events are to be open to the entire SEM membership.

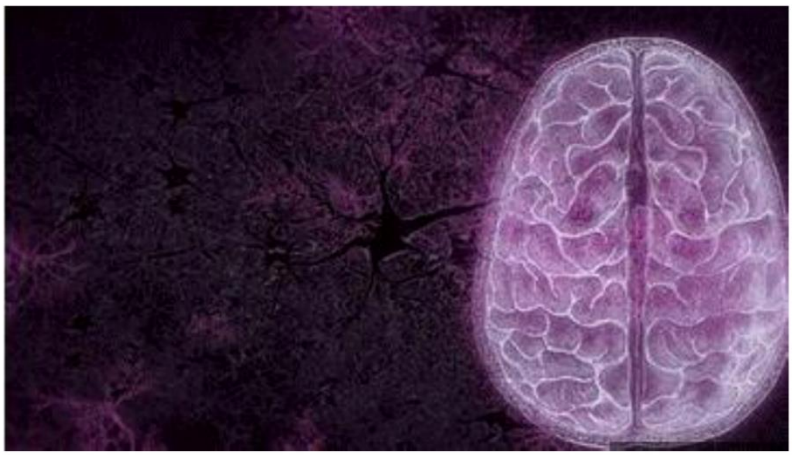
Your TAcom plans to continue contacting chapters and groups needing assistance in meeting IEEE and SEM Section goals for encouraging member participation and discussions related to the vast amounts of technical and engineering challenges facing our world.

V/r

Jeffery V. Mosley
TAcom Chairman
jvmosley@ieee.org

Documentary: Perception

IEEE Southeastern Michigan
Presents a Video Documentary on
Your Brain: Perception Deception



IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

Recommended by our fellow IEEE Southeastern Michigan member - Malcolm Lunn!

Is what you see real? Join neuroscientists on a quest to understand how your brain shapes your reality, and why you can't always trust what you perceive. Learn the surprising tricks and shortcuts the brain takes to help us survive.

Running time: 50 minutes ()

Quick Summary

- **When:**
  Date: July 7th, 2023
  Time: 04:45 – 5:45 PM (EST/EDT)
- **Where:**
  Online via Webex (to be shared only after you have a confirmed registration)
- **Audience: OPEN to ALL***

Sponsored by IEEE Southeastern Michigan Education Society Technical Chapter

***Pre-Registration Required!**

https://events.vtools.ieee.org/m/365098

IEEE Education Society

IEEE Southeastern Michigan Section

This Month in July

Or: Notable Events in Engineering & Science History, which I Did Not Know! ☺

***Alan Dower Blumlein; Died 6 Jun 1942 at age 38**, (born 29 Jun 1903).*

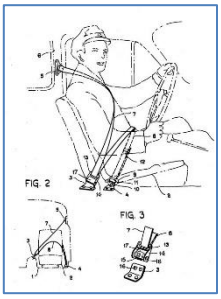
British electronics engineer whose 128 patents contributed greatly to a wide field of electronics, including mono and stereo sound reproduction and sound recording, as well as high-definition radar, telephony and electrical measurements. His profuse creativity was achieved within just 18 years, because he died at age only 38 (while flight-testing a radar project during WW II). He began working in 1924 for International Western Electric Co., and by 1929 was with Columbia Gramophone Co. which became EMI (1931) where he invented the stereophonic recording system. Although a few stereo recordings were made in the 1930's, EMI did not extensively develop the technology until the 1950's, when it built on Blumlein's work.

Rube Goldberg; Born 4 Jul 1883; died 7 Dec 1970 at age 87.

American cartoonist who satirized the American preoccupation with technology. His name became synonymous with any simple process made outlandishly complicated because of his series of "Invention" cartoons which use a string of outlandish tools, people, plants and steps to accomplish everyday simple tasks in the most complicated way. Goldberg applied his training as a graduate engineer and used his engineering, story-telling, and drawing skills to make sure that the "Inventions" could work, even though dozens of arms, wheels, gears, handles, cups, and rods were put in motion by balls, canary cages, pails, boots, bathtubs, paddles, and even live animals for simple tasks like squeezing an orange for juice or closing a window in case it should start to rain.

Edwin J. Houston; Born 9 Jul 1847; died 1 Mar 1914 at age 66.

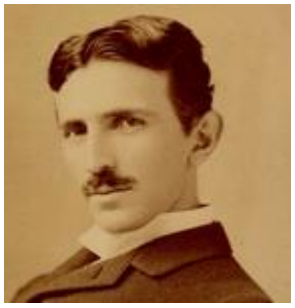
Edwin James Houston was an American electric al engineer who, together with Elihu Thomson (another Philadelphia high school teacher) experimented with electricity. Houston invented, patented in 1881 and manufactured arc street-lighting. He presented the first paper, Notes on Phenomena in Incandescent Lamps, to The American Institute of Electrical Engineers when it began in 1884 (AIEE - the predecessor society of the present IEEE, The Institute of Electrical and Electronics Engineers, Inc.). The merger of Thomson-Houston and Edison General Electric companies (1892) formed General Electric. In 1894 he joined with Arthur Kennelly (who resigned from Edison's laboratory) to form a consulting company



Seat-belt patent; July 1962

In 1962, a U.S. patent was issued to Swedish engineer, Nils Bohlen, for the three-point seatbelt (No. 3,043,625). His lap and shoulder design are now familiar as the passenger-restraint safety device in cars that has saved countless lives. His design replaced the earlier style of a single safety belts strapped across the body, with the buckle placed over the abdomen, which often caused severe internal injuries in high-speed crashes. Bohlin assigned the patent to Volvo, the car manufacturer for whom he worked. From Aug 1959, Volvo incorporated Bohlin's seat belt into the vehicles they manufactured. The company also made the design freely available to other car manufacturers to save more lives.

Nikola Tesla; Born 10 Jul 1856; died 7 Jan 1943 at age 86.

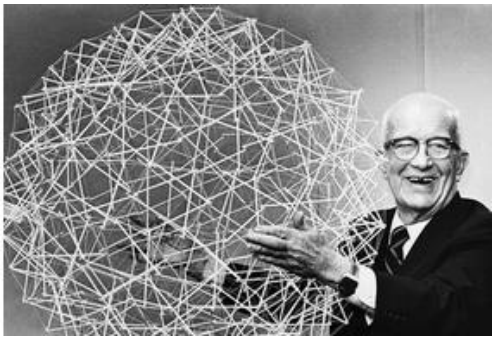


Serbian American inventor and researcher who designed and built the first alternating current induction motor in 1883. He immigrated to the United States in 1884. Having discovered the benefits of a rotating magnetic field, the basis of most alternating-current machinery, he expanded its use in dynamos, transformers, and motors. Because alternating current could be transmitted over much greater distances than direct current, George Westinghouse bought patents from Tesla the system when he built the power station at Niagara Falls to provide electricity power the city of Buffalo, NY. [Born in Croatia of Serbian parents. Some sources give birthdate as 9 Jul; he is said to have been born on the stroke of midnight. He celebrated his birthday as the 10th.]

Theodore Maiman, Born 11 Jul 1927; died 5 May 2007 at age 79.

Theodore Harold Maiman was an American physicist who built the first working laser. He began working with electronic devices in his teens, while earning college money by repairing electrical appliances and radios. In the 1960s, he developed, demonstrated, and patented a laser using a pink ruby medium. The laser is a device that produces monochromatic coherent light (light in which the rays are all of the same wavelength and phase). The laser has since been applied in a very wide range of uses, including eye surgery, dentistry, range-finding, manufacturing, even measuring the distance between the Earth and the Moon.

R. Buckminster Fuller; Born 12 Jul 1895; died 1 Jul 1983 at age 87.



Richard Buckminster Fuller was an American inventor, educator, author, philosopher, engineer and architect who developed the geodesic dome. This large dome can be set directly on the ground as a complete structure. There is no limit to the size to which it may be built and retain sufficient structural strength. Fuller also invented a wide range of other paradigm-shifting machines and structural systems. He was especially interested in high-strength-low weight designs, with a maximum of utility for minimum of material. His designs and engineering philosophy are part of the foundation of contemporary high-tech design aesthetics. He held over 2000 patents.

U.S. Electrical units

In 1894, eight units for the measurement of electrical magnitudes were adopted in U.S. law when President Grover Cleveland signed an Act of Congress “to define and establish the units of electrical measure” for the ohm, ampere, volt, coulomb, farad, joule, watt and henry. It was specified to be “the duty of the Academy of Sciences to prescribe ... such specifications of details as shall be necessary for the practical application of the definitions.” The Act followed an International Congress held at Chicago in 1893, in connection with the World's Fair. There, a Chamber of Delegates from various nations deliberated on the definitions. The International Congress was largely due to the Institute of Electrical Engineers and to local societies in the city of Chicago.

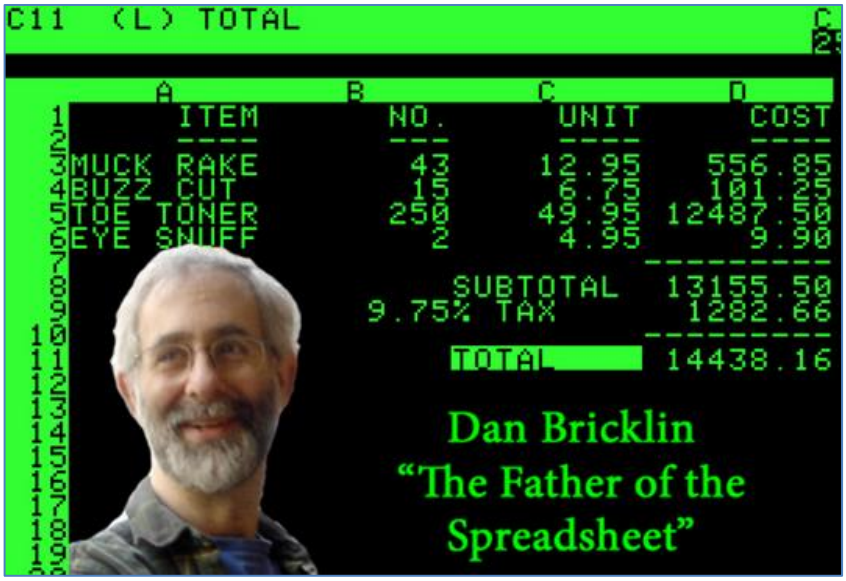
Jay W. Forrester; Born 14 Jul 1918.

Jay Wright Forrester is an American electrical engineer and management expert. In 1944-51 he supervised the building of the Whirlwind computer at the Massachusetts Institute of Technology, for which he invented the random-access magnetic core memory, the information-storage device employed in most digital computers. He also studied the application of computers to management problems, developing methods for computer simulation.

July 14th 2013, Last telegram in India

In 2013, the world's last telegram was sent in India. It was the last major country to shut down telegram service. India's 159-year-old telegram service was no longer needed, as e-mail and texting had replaced bicycle telegram messengers. In Great Britain, telegram delivery ceased in 2008, while the U.S., Western Union's dwindling service was terminated 27 Jan 2006. The first formal telegram was sent by Samuel Morse in Washington to his business partner Alfred Vail in Baltimore, on 24 May 1844. Seeking funding, he demonstrated to Congress the power of telegraphy through wires connecting cities with the message, “What hath God wrought.” In time, wires were strung across the U.S. and other countries, which eventually were connected by a Transatlantic cable under the ocean and more submarine cables.

Dan Bricklin; Born 16 Jul 1951.



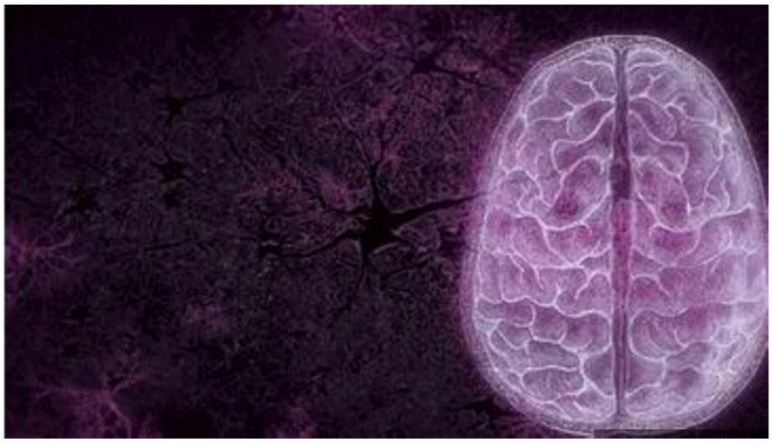
American computer scientist who with Bob Frankston created VisiCalc, the first spreadsheet computer program (1979) which created a market beyond hobbyists for the emerging personal computers. Businesses found the program very useful because of the speed and accuracy of its calculations. Originally written in 6502 assembly language to run on a 32K-byte Apple II, it was soon ported to virtually all major 6502- and Z80-based personal computers then available. They did not reap huge financial profits from the spreadsheet program, despite eventually selling over a half-million copies by 1983, because at the time, copyright protection was not generally sought for software, and it was subsequently surpassed by Lotus 1-2-3, later Microsoft Excel. It is anticipated that soon open source offerings such as LibreOffice may overtake Excel due to the extremely low (or zero cost) of entry.

This continues the yearlong feature of interesting ***engineering*** events or milestones that occurred in a specific month. Readers are invited to share their views and opinions (or suggestions) at the accompanying link. Submissions can also be made using direct email to the editors at: wavelengths@ieee-sem.org.

Sharan Kalwani
Just one of the Editors, Wavelengths,
2022-2023 Chair, Southeastern Michigan Section
Passionate Engineering History Buff/Aficionado

Brain: Who is in Control?

IEEE Southeastern Michigan
Presents a Video Documentary on
Your Brain: Who's in control?



IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

Are you in control of your brain, or is your brain controlling you? Dive into the latest research on the subconscious with neuroscientists to see what's really driving the decisions you make

Running time: 50 minutes ()

Quick Summary

- **When:**
  Date: July 14th, 2023
  Time: 04:45 – 5:45 PM (EST/EDT)
- **Where:**
  Online via Webex (to be shared only after you have a confirmed registration)
- **Audience: OPEN to ALL***

Sponsored by IEEE Southeastern Michigan Education Society Technical Chapter

***Pre-Registration Required!**

https://events.vtools.ieee.org/m/365099

IEEE Education Society

IEEE Southeastern Michigan Section

Chasing Carbon Zero

IEEE Southeastern Michigan
Presents a Video Documentary on
Chasing Carbon Zero

IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

Can the U.S. reach net-zero carbon emissions by 2050 and avoid the biggest impacts of climate change? Experts say it can be done. Here's the technology that could get us there

Running time: 50 minutes ()

Quick Summary

- **When:**
  Date: July 21st, 2023
  Time: 04:45 – 5:45 PM (EST/EDT)
- **Where:**
  Online via Webex (to be shared only after you have a confirmed registration)
- **Audience: OPEN to ALL***

Sponsored by IEEE Southeastern Michigan Education Society Technical Chapter

***Pre-Registration Required!**

https://events.vtools.ieee.org/m/365100

IEEE Education Society

IEEE Southeastern Michigan Section

Xtreme Weather

IEEE Southeastern Michigan Presents a Video Documentary on Weathering the Future

IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

As extreme weather in the U.S. impacts more people – with longer heat waves, more intense rainstorms, megafires, and droughts – discover how Americans are fighting back by marshaling ancient wisdom and innovating new solutions.

Running time: 50 minutes ()

Quick Summary

- **When:**
  Date: July 28th, 2023
  Time: 04:45 – 5:45 PM (EST/EDT)
- **Where:**
  Online via Webex (to be shared only after you have a confirmed registration)
- **Audience: OPEN to ALL***

Sponsored by IEEE Southeastern Michigan Education Society Technical Chapter

***Pre-Registration Required!**

https://events.vtools.ieee.org/m/365102

IEEE Education Society

IEEE Southeastern Michigan Section

Fall Conference '23

Dear IEEE members:

As we witnessed the recent great success of the IEEE Southeastern Michigan Spring Conference 2023 in-person event held on March 28th, at Lawrence Technological Institute after the COVID pandemic, I would like to give credit to all of those, for making it happen, and your active contribution and relentless effort. It is now time to buckle up for the next event, IEEE Southeastern Michigan Section Fall 2023 Conference – An in-person event at the Michigan State University on October 18th, 2023.

The conference will feature keynote presentations, a student research poster competition, a recruitment opportunity, a technical track, a section activity showcase, a technical demo, awards, a dinner, technical chapter active collaboration and social networking. The conference theme will be "Mega and Nano Trend Challenges".

Please access early event info here: https://events.vtools.ieee.org/m/364728 as we are carving out a detailed plan and putting the pieces together. I would invite you all to actively contribute and make it successful again. Please participate in the Fall conference planning meeting, which is already scheduled in the events.VTOOLs.ieee.org page for registration.

Please see the "SAVE the Date FLYER" and reach out to me for any comment, question, concern to *conference@ieee-sem.org.*

Thank you for your support and I look forward to meeting with you all.

Keyur Patel
Behalf of: Section Conference Team


IEEE Southeastern Michigan Fall Conference 2023
IEEE
Theme: Engineers Solving Mega- and Nano- trend Challenges
Topics planned are:
Mega Trends to Nano Trends Challenges
Areas of Electrical/Electronics/Computer/Mechanical/Power Engineering & Science
Keynote Presentations, Student Poster Competition, Recruitment Technical Track, Technical Demo, Section Activity, Dinner, Award, Social Networking & Chapters Collaboration
Event Date: October 18th, Wednesday, 2023 – 3:00 PM to 8:30 PM (EST)
Venue: Kellogg Hotel & Conference Center, Michigan State University, Michigan
Save the Date
October 18th, Wednesday, 2023
Contact: Conference@ieee-sem.org
https://events.vtools.ieee.org/m/364728

Looking for: Finance Chair for the Fall 2023 Section Conference Event

Dear IEEE members

As we work through Fall Section Conference 2023, the Section conference planning team has a need for a Finance Chair. We are looking for an enthusiastic volunteer who could help in tracking various financial transactions area between Vendor, Conference Team, and IEEE Section Treasurer and ensure these are be handled efficiently.

Key Responsibilities:

1. Conference Planning support
2. Budget Management Support
3. Sponsorship and Fundraising Management Support
4. Logistic and Operational expense handling
5. Evaluation and Reporting
6. Registration Expenses handling
7. Co-ordinational with Section Treasurer, reach out to IEEE organization, and Vendor / Supplier,
8. Active participation in the event planning meetings

Please reach out to "*conference@ieee-sem.org"* for more information.

Thank you.
Keyur Patel
IEEE Southeastern Michigan - Fall 2023 Section Conference Chair

Member News

This month we are featuring several of our colleagues who have achieved senior member status.

CONGRATULATIONS to all!

Dr. Karthik teaches primarily electrical engineering classes at Spring Arbor University. He is an enthusiastic teacher with more than seven years of industrial experience. He enjoys being with students and mentoring them to entrepreneurial design thinking ideas to generate social and economic impact.

After graduating from MSU with a doctoral degree, he led an engineering team at Avidhrt Inc to develop a handheld cardiac monitoring device capable of taking vitals such as ECG and Pulse oximetry. He is a co-inventor of 2 patent applications and authored many publications in peer-reviewed journals. His research interests are developing medical devices, computational electromagnetics, and building intelligent solar tracking systems.

Loren Schwiebert joined Wayne State University as a tenure-track Assistant Professor in 1995 and is currently a Professor in the Department of Computer Science at Wayne State University. He received a B.S. degree in Computer Science from Heidelberg University (Tiffin, Ohio) with a dual major in Mathematics, and the M.S. and Ph.D. degrees in Computer and Information Science from the Ohio State University in Columbus, Ohio.

Dr. Schwiebert's current research interests include software development and algorithm design for GPUs and multicore architectures to support high-performance scientific computing and machine learning. He is a co-developer of two open-source software packages: GPU-Optimized Monte Carlo (GOMC) and Jet Energy-loss Tomography with a Statistically and Computationally Advanced Program Envelope (JETSCAPE).

Dr. Ibrahim Haskara is a Staff Researcher at GM Global R&D, leading next-generation propulsion controls innovation at Propulsion Controls Group. Before joining GM in 2005, he worked a control research scientist at Visteon Corporation. Dr. Haskara received his Ph.D. degree in Electrical Engineering from the Ohio State University. He has over 70 patents & trade secrets, numerous technical publications and currently serves as an associate editor for Wiley, Advanced Controls for Applications. He is the recipient of 2010 GM R&D McCuen Award, 2020 GM Boss Kettering Award and 2022 IEEE Control Systems Technology Award. His main research interests are automotive modeling, control, and diagnosis for advanced propulsion, electric vehicle, and battery management systems and, most recently, AI-enhanced controls.

IEEE
Advancing Technology for Humanity

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Member and Geographic Activities
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Fax + 1 732 867 9943
c.jankowski@ieee.org

12 June 2023

Steven Louis
Oakland University/ECE

Dear Steven Louis:

Congratulations! On behalf of the IEEE Member and Geographic Activities Vice President, Jill Gostin, and IEEE Technical Activities Vice President, John Verboncoeur, it is a pleasure to inform you that the requirements of the MGA Board Operations Manual have been met, and the IEEE Southeastern Michigan Section, Magnetics Society Chapter has been formed. The effective date of this chapter formation is June 8, 2023.

You have been recorded as the Chapter Chair. When an election has been held, please report the name and member number of the new Chapter Chair to the IEEE using the online officer reporting tool at https://officers.vtools.ieee.org/. Valuable information regarding IEEE Society Chapters can be found at http://www.ieee.org/societies_communities/geo_activities/chapters. If we can assist you in any way in the planning of the chapter activities, please let us know.

We extend our best wishes for the successful operation of this chapter.

Sincerely,

Cecelia Jankowski

Cecelia Jankowski
Managing Director
Member and Geographic Activities

cc: J. Gostin – Member and Geographic Activities Vice President
J. Verboncoeur – Technical Activities Vice President
V. Ozburn – Region 4 Director
A. Hirohata – Magnetics Society President
S. Kalwani – Southeastern Michigan Section Chair
M. Ward-Callan – Technical Activities Managing Director

445 Hoes Lane, Piscataway, NJ 08854 USA • +1 732 981 0060 • Fax +1 732 981 0027 • www.ieee.org

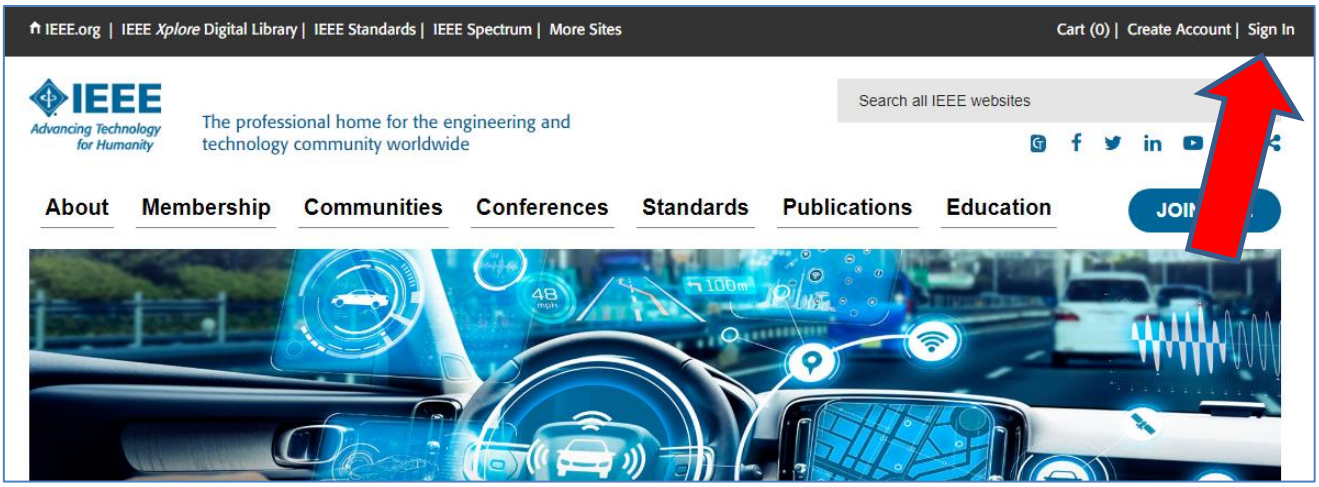
Lost Contact?

One of the items that Southeastern Michigan Section is lauded for is maintaining a monthly newsletter when most other Sections have none, or once a year or once a quarter, at most. I mention this to members and occasionally get the response; "I never see it!". Upon further discussion I am told that the members never get any notification of local events or meetings at all.

At this point I can usually guess what has happened. When renewing his or her membership, they checked something in the 'Personal Profile' which reduced their email load and cut them off from all IEEE local communications. (*Or they forgot to renew their membership!*)

So, how can you check your Personal Profile? Simple:

- Log into the main IEEE website at: **https://www.ieee.org**
- 'Sign in' using your IEEE email address and password. (Arrow below shows the 'Sign in' button.)



- Click on your name when it appears, and you will be taken to your IEEE Account page.
- Click on the Profile block.
- Click on the Communications Preferences and Policies link.

Under Communications Preferences, if the 'Expand All' button is shown, click on it to show you all your communications options. Often, I find that to limit their email, members have checked:
'Please remove me from IEEE communications not required legally or for the fulfillment of services.'

If that item is checked, you will certainly limit your email from IEEE. You will never hear of local, regional, national, or international events, or any interesting news about activities or technical topics at all.
You will also never see the monthly link to the SEM 'Wavelengths' newsletter.

For some members who have demanding careers as consultants involving lots of travel, personal visits and lots of focused work on behalf of clients and only need IEEE for such things as insurance or other services, this may be a viable option.

For the rest of us clicking that box cuts us off from the IEEE membership community and everything that IEEE works for on behalf of the members.

So, please check your IEEE setting today, and think carefully about your choices. You can open a cornucopia of opportunities for involvement with interesting and relevant happenings that align with your interests and goals. Or you may cut yourself off from many potentially wonderful opportunities and experiences. The choice is clearly yours.

Make a wise choice.

30 kw

EMC SIPI 2023

2023 IEEE INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC COMPATIBILITY & SIGNAL/POWER INTEGRITY

TECHNICAL PROGRAMS

A sampling of the technical program highlights planned for 2023!

EMC+SIPI 2023 GRAND RAPIDS, MICHIGAN JULY 31-AUGUST 4

SPECIAL SESSIONS

EMC Assessment and EMI Modelling for Electrical and Electronic Devices in the Low-Frequency Range
Co-Chairs:
Erjon Ballukja and Karol Niewiadomski, *University of Nottingham, UK*

Advanced EMC Design Based on Near-field Modeling and Metasurface
Co-Chairs:
Richard Xian-Ke Gao and Xing-Chang Wei, *Zhejiang University, China*

Stochastic Simulation for EMC and Signal Integrity
Co-Chairs:
Paul Bremner, *RobustPhysics, San Diego, CA*
Prof. Zhen Peng, *University of Illinois Urbana-Champaign, Urbana, IL*

ASK THE EXPERTS PANEL DISCUSSIONS

EMC Challenges of Automotive Electrification
Chair:
Craig Fanning, *Elite Electronic Engineering*

Signal Integrity Challenges of SERDES Interfaces
Chair:
James Drewniak, *Missouri S&T EMC Laboratory*

Challenges in Medical EMC
Chair:
Larry Banasky, *Stryker Medical*

EMI Issues and Solutions of Modern Power Electronics Systems with Wide Bandgap Semiconductor Devices
Chair:
Shuo Wang, *University of Florida*

SIPI SHORT COURSE

Presenter:
John Golding, *Siemens EDA*

For beginner and intermediate level learners. Our topics will include:

SIGNAL INTEGRITY
Basic Concepts
- What is Signal Integrity
- Transmission Lines
- Crosstalk
- Differential Pairs
- Vias and Impairments
- Termination
- Timing

Application Examples
- DDR Memory Interface
- High-Speed Serial Interface

POWER INTEGRITY
Basic Concepts
- What is Power Integrity
- DC Current and Voltage
- Decoupling
- Transient Performance

Application Examples
- DC (IR) Voltage Drop
- Decoupling and noise

Duration: 4 hours
Cost: $75 per person / $100 per person after the June 26th early deadline

CLAYTON R. PAUL GLOBAL UNIVERSITY

Advance your EMC knowledge and career with 20 hours of in-depth classes on EMC at the IEEE EMC Society's premier educational event.

Signal Spectra - Dr. Flavia Grassi, *Politecnico Milano*
Non-Ideal Behavior of Components - Dr. Anne Roc'h, *Eindhoven University of Technology*
Radiated Emissions - Mr. Lee Hill, *Silent Solutions LLC & GmbH*
Conducted Emissions - Dr. Arturo Mediano, *University of Zaragoza*
Electrostatic Discharge - Dr. Todd Hubing, *Clemson University*
PCB Design for EMC - Dr. Bruce Archambeault, *Missouri University of Science & Technology*
Shielding - Dr. Frank Leferink, *University of Twente*
Signal Integrity - Dr. Eric Bogatin, *University of Colorado, Boulder*
Crosstalk - Dr. Daryl G. Beetner, *Missouri University of Science & Technology*
Power Integrity - Mr. James Herrmann, *AppliedLogix, LLC*

Cost:
$350 per person/
$400 per person after the June 26th early deadline

SEE FULL DESCRIPTIONS OF OUR PROGRAMS:
emc2023.org/technical-programs.html

IEEE | EMC SOCIETY

SUMMER PICNIC!

SUMMER POTLUCK PICNIC!

The IEEE Southeastern Michigan Section invites all IEEE members & their families & friends, to join us for a Summer Potluck Picnic.*(In other words, we engineers also know how to play and are not all work all the time!!)*

Plan to join us on Sunday, July 2nd 2023
From 11:30 AM to 6:30 PM (SUMMER TIME) at:

Kiwanis Pavilion
400 Sixth Street
Rochester, Michigan
United States 48307

There is no charge for the gathering but, please register so we know who and how many to expect.

Register at https://events.vtools.ieee.org/m/356581

The event is open to all IEEE Southeastern Michigan Section members, their families AND friends! Please email the sponsors with what dish you will be bringing to share, approximately what time and how many members are expected to join in the fun (RSVP by June 30). We will help provide the napkins, plastic ware, paper plates, water, table covers, etc. Feel free to also let the organizers also know if you are bringing a board game, music, or group activity item, etc. As engineers we too know how to spend a relaxing day with family together! We look forward to seeing you on that Sunday.

About the Municipal Park
The City of Rochester's park system offers a wide variety of recreational opportunities. At Rochester Municipal Park, the recreation opportunities include:

- Open air shelter (the Kiwanis Shelter) - has electrical outlets, so we can use crockpots, etc.
- Duck Pond
- Over a mile of paved walkway
- Restrooms
- Sand volleyball
- Tot lot (at the south end at the end of Pine Street)

Do come join us!



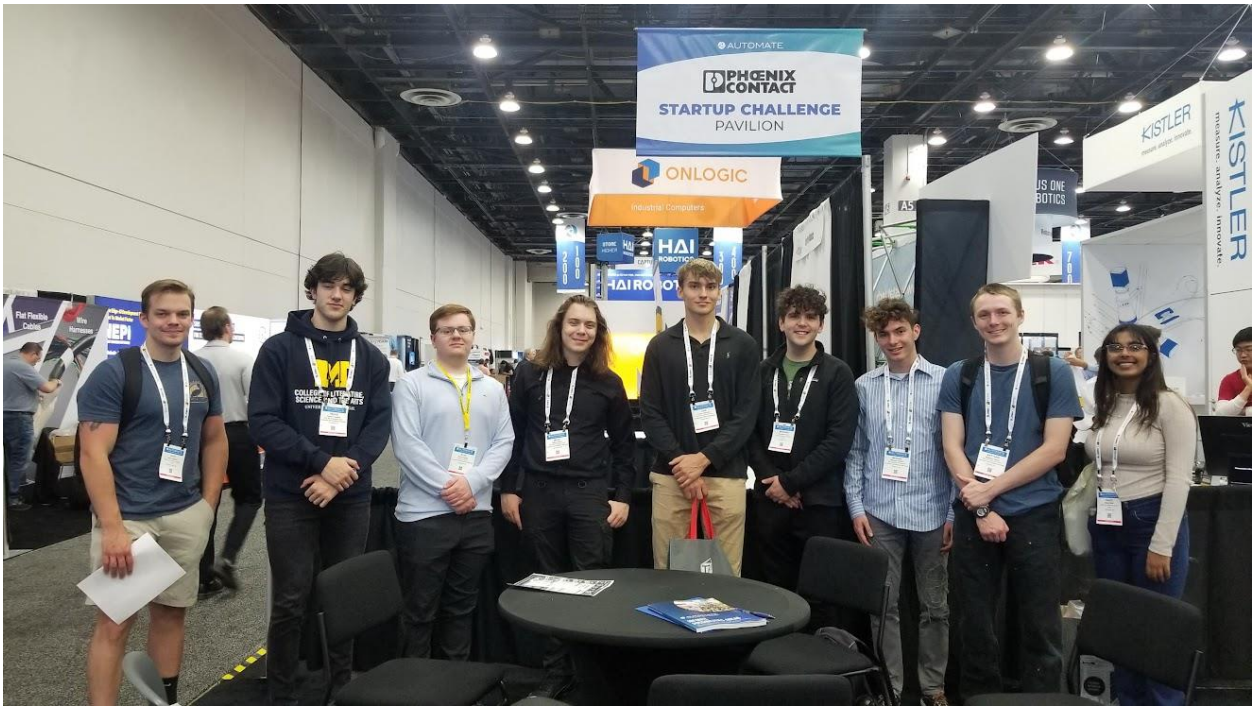
Automate 2023 Report

Automate Conference/Expo – Unofficial Judging of Best Start-Up Challenge, Chapter 14 Robotics & Automation Society

Automate is the largest and most inspiring showcase of robotics and *automation* in North America. It offers comprehensive cutting-edge robotics, vision, AI, motion control and other technologies. Automate 2023 was held at Huntington Place in Detroit. IEEE Southeastern Michigan Section Chapter 14 Robotics & Automation (R&A) members were invited to attend the conference on May 25, 2023. IEEE SEM R & A members together with guests first visited some of over 500 exhibition booths to see how R&A are transforming the industry & economy, observe the R&A technology trends, watch demos, learn more by asking questions, and network with industry experts. Then they visited each of 10 finalist booths in the Automate Start-Up Pavilion. The voting results from 11 submissions are:

- Deepview Corp (5 votes): All-in-one deep learning cameras—vision cameras that learn to inspect any part from as few as 40 examples!
- ESTAT (3 votes): Versatile gripping solutions that handle a wide variety of parts, including parts with holes or pores, while consuming very little power.
- Voaige Inc (2 votes): AI based vision software for robotic automation
- Sokul Automation (1 vote): Material Fulfillment System (MFS) that systematizes the material delivery process on the factory floor in manufacturing environments.

Please visit more details about 10 finalists on the web at: https://www.automateshow.com/trade-show/startup-challenge



Dr. CJ Chung, Robotics Society Chapter Chair, cchung@ltu.edu

IEEE Day 2023

In most areas outside IEEE-USA, IEEE Day has almost the status of a major holiday. Sections have major activities and there is strong participation in the Photo and Video Contests. Badges are earned and Collaboratec is full of information about the various celebrations of the day when engineers came together to share their technical expertise. But in Regions 1 through 6 activities are few and far between. Some sections in Region 10 have more IEEE Day Ambassadors than entire USA regions!

Our Section has anywhere between 2500 to 3000 members (it varies as folks retire, join, relocated in or out of the area, etc) AND can be as creative and productive as our counterparts anywhere else. We are just as clever as the members of any of these sections. The IEEE Day window is on October 3rd, during that week, which activities qualify as IEEE Day Activities provides an excellent opportunity for recruiting students returning to school and professional members regrouping after summer. It is also a great time to remind our industry partners of the educational opportunities available through ILN (IEEE Learning network) and IEEE.TV (our own streaming service for selected videos only), plus several other societies. The classes, workshops, and lectures available via the various IEEE avenues can be used to provide excellent continuing education to engineers working through out your section.

Once again there will be free presentations by the various societies and other IEEE entities like ILN. There will be free and discounted classes and mini-courses on a wide range of topics. Discounts on some future conferences will be offered when registration is done during IEEE Day window. New members will again be offered a discount to join. Many societies will be offering free or discounted fees for becoming society members. These should be great enticements for new members to join or lapsed members to return. In many cases the discount is extended to both professional and student members.

There will once again be prizes for photos and videos submitted to the contests. Badges will be offered to those who complete a series of tasks associated with IEEE and its long history.

The Region IEEE Day Lead will work with the Section IEEE Day Ambassadors to coordinate activities with the local society chapters, affinity groups and student branches. Publicizing the local activities and the national offerings in local media can attract new members and reinvigorate existing members. Sending information to local media, libraries, companies, and even schools can help to attract attendance from outside the organization.

October 3 – the date of IEEE Day for 2023 – seems like part of a distant future, but given the annual summer slowdown, it is much closer than one might think. This is a great time to start planning both activities and how to publicize them.

There will be additional guidance in the months leading up to IEEE Day to help Sections, Chapters, and Student Branches in the field, for IEEE Day celebrations to rival those in any Region. Now is the time to begin the discussions that will lead to a successful IEEE Day 2023. Let's prove that we can can be as successful with its IEEE Day observances as our IEEE colleagues all over the world.

ORG UNITS cheat sheet

Section Unit Name or Affinity Group or Chapter Name (Organizational Unit code is in parentheses)		
Consultants Network Affinity Group:	(CN40035)	
Life Members:	(LM40035)	
Young Professionals:	(YP40035)	
Women in Engineering:	(WE40035)	
Chapter: 01 (CH04049)	(SP01)	Signal Processing Society,
	(CAS04)	Circuits and Systems Society and
	(IT12)	Information Theory Society
Chapter: 02 (CH04051)	(VT06)	Vehicular Technology Society
Chapter: 03 (CH04053)	(AES10)	Aerospace and Electronic Systems Society and
	(COM19)	Communications Society
Chapter: 04 (CH04050)	(AP03)	Antennas and Propagation Society,
	(ED15)	Electron Devices Society,
	(MTT17)	Microwave Theory and Techniques Society,
Chapter: 05 (CH04055)	(C16)	Computer Society
Chapter: 06 (CH04056)	(GRS29)	Geosciences and Remote Sensing Society
Chapter: 07 (CH04057)	(PE31)	Power Engineering Society,
	(IA34)	Industrial Applications Society
Chapter: 08 (CH04088)	(EMC27)	Electromagnetic Compatibility Society
Chapter: 09 (CH04087)	(IE13)	Industrial Electronics Society,
	(PEL35)	Power Electronics Society
Chapter: 10 (CH04142)	(TEM14)	Technology and Engineering Management Society
Chapter: 11 (CH04099)	(EMB18)	Engineering in Medicine & Biology
Chapter: 12 (CH04103)	(CS23)	Control Systems Society
Chapter: 13 (CH04113)	(E25)	Education Society
Chapter: 14 (CH04115)	(RA24)	Robotics And Automation Society
Chapter: 15 (CH04144)	(NPS05)	Nuclear Plasma Sciences Society
Chapter: 16 (CH04125)	(CIS11)	Computational Intelligence Society,
	(SMC28)	Systems, Man and Cybernetics Society
Chapter: 17 (CH04128)	(NANO42)	Nanotechnology Council

Section Unit Name or Affinity Group or Chapter Name (Organizational Unit code is in parentheses)	
University Of Detroit-Mercy:	(STB00531)
Michigan State University:	(STB01111)
University Of Michigan-Ann Arbor:	(STB01121)
Wayne State University:	(STB02251)
Lawrence Technological University:	(STB03921)
Oakland University:	(STB06741)
Eastern Michigan University:	(STB11091)
University of Michigan-Dearborn:	(STB94911)

Use the Geo-unit ‘Code’ for faster access in the vTools system applications.

HKN Code	HKN Name (Student IEEE Honor Society)
HKN029	University of Michigan-Ann Arbor, Beta Epsilon
HKN042	University of Detroit-Mercy, Beta Sigma
HKN054	Michigan State University, Gamma Zeta
HKN073	Wayne State University, Delta Alpha
HKN163	University of Michigan-Dearborn, Theta Tau
HKN164	Lawrence Institute of Technology, Theta Upsilon
HKN190	Oakland University, Iota Chi
HKN244	Southeastern Michigan Alumni

Organization Unit IEEE Code	Student Technical Chapter name
SBC00531	University of Detroit-Mercy, Computer Society Chapter
SBC02251	Wayne State University, Computer Society Chapter
SBC03921	Lawrence Tech University, Computer Society Chapter
SBC06741	Oakland University, Engineering in Medicine & Biology

Why do we publish this? Well, this is most useful when searching the vTools page for entering L31s or creating new events or searching for existing events!

/*
NOTE _ we will be updating this next month when the newly formed Magnetic Society Chapter Chair returns back to Michigan
*/

Curated & Maintained By
Sharan Kalwani,
Chair, IEEE Southeastern Michigan Section (2022-2023)
Editor, Wavelengths (*Serving you as an active newsletter contributor since 2018)*
Enthusiastic IEEE volunteer since 2011

Use the Geo-unit ‘Code’ for faster access in the vTools system applications.

Field Day!

During the week of June 18, 2023 as members of IEEE Southeastern Michigan Section you should have received an eNotice letting you know how to locate local Field Day sites near you on the weekend of June 24 & 25. During this period members of the Amateur Radio community leave the comfort of their home radio stations and set up communications facilities away from the normal power grid, erect antennas and spend 24 hours making as many 'contacts' with other Amateur Radio operators as possible.

This is not just an outing 'for the fun of it' but a practical test of preparedness in case an actual emergency takes out the power grid, the cell phone towers and the roads. How would the world outside the disaster area know what had happened and what help would be needed?

One of my friends in the IEEE Electromagnetic Compatibiity Society, Domenico Festa, IZ2GAQ, tells me that last month one of the villages in the mountains of Italy was devastated by flooding which completely isolated them for four days. During that period, the only communications in or out was by local Amateur Radio operators.

Time after time the Amateur Radio Service and its communications capabilities have been the lifeline between communities is dire need of assistance and the public services organizations most able to provide needed help.
Preparations for possible emergency situations is part of the "Basis and purpose" written into the Code of Federal Regulations that established the Amateur Radio Service. That statement reads, in part; "…as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.". The Amateur Radio community takes that seriously, and Field Day is just one of many activities that continually exercise and maintain the network of links that form a world spanning communications safety net.

An Amateur Radio operator in Texas recently sent me an email commenting on one of my articles in the EMC Society magazine. Robert Karon, AA6RK of Wimberley, Texas wrote:
"*I've been a HAM since 1965 +- and have been involved with the hobby in many different ways over the years. Of note in terms of "service" is my rescue of a sailboat in the Caribbean for which I received a commendation from the Coast Guard and serviced many terrified people after the earthquake in the San Fernando Valley with Health and Welfare messages. Yes. Amateur Radio is fun, but it serves a vital purpose for the general welfare of the public."*

When hurricanes devastated island communities in the Caribbean in recent years, the Amateur Radio bands were full of messages to and from relatives in the US finding out what condition their family members living in the islands were since the 'official' communications channels were too full of needed disaster relief messages to provide personal contact message services. This is where the Amateur Radio community continues to support the 'official' communications during an extended disaster by taking those 'health and welfare' messages off the official channels. Many family members in the US have been relieved to have news of their extended family.

That history, and the 'official purpose' of Amateur Radio is a major reason for the Field Day exercise each year. Another equally important is as a demonstration of capabilities to the wider general public and a community outreach. Field Day is an educational opportunity in which many Field Day sites sponsored by local Amateur Radio clubs also provide a 'GOTA' station in which licensed operators can assist interested folks to '**G**et **O**n **T**he **A**ir' by talking with other amateurs through their radio station at the Field Day site.

As most Field Day sites visitors can also observe communications by Voice, by Morse code, by Digital, by High Frequency and Very High Frequency, and Ultra High Frequency means and if orbital conditions are right, by satellite with some of the many Amateur Radio satellites now in orbit about the earth.

I hope many of you reading this took the opportunity to visit a Field Day site this year and learn more about the Service which has become a 'Hobby' and an enjoyable avocation for many but still retains an awareness of its community support role in times of need.

73, 30 kw N8FNC

Activities & Events

We try to publish IEEE events in several places to ensure that everyone who may want to attend has all the available relevant information. **NOTE: The IEEE SE Michigan section website is located at http://r4.ieee.org/sem/**

SEM Wavelengths:
https://r4.ieee.org/sem/about-sem/sem-history/wavelengths-magazine-archive/

SEM Calendar of events:
https://r4.ieee.org/sem/sem-calendar/
Select "SEM Calendar" button in the top row of the website. This is our 'Active' event listing site where everyone should look first to see what events are scheduled for our Section in the near future.

SEM Collabratec Workspace:
https://ieee-collabratec.ieee.org/app/workspaces/5979/IEEE-Southeastern-Michigan-Section/activities
An IEEE supported space for online chat, discussions, connecting with other global IEEE entities, besides our local Michigan folks.

vTools Meetings:
http://sites.ieee.org/vtools/
Select "Schedule a Meeting" button in the left-hand column of buttons.

Other Happenings

Here are some of the non-IEEE functions that may be of interest to you or someone you know. Let us know if you have a special interest in a field that encourages technical study and learning, and wish to share opportunities for participation with members of the section. NOTE: Copy the URL and paste it into your browser address bar.
These websites were checked in June 2022 and found viable.
Send details to: wavelengths@ieee-sem.org OR letters@ieee-sem.org

Michigan Institute for Plasma Science and Engineering: Seminars for the academic year:
https://mipse.umich.edu/seminars.php

Model RC Aircraft
http://www.skymasters.org

Model Rocketry
https://www.nar.org/find-a-local-club/nar-club-locator/

Astronomy
http://www.go-astronomy.com/astro-clubs-state.php?State=MI

Experimental Aircraft Association
https://www.eaa.org/en/eaa/eaa-chapters/find-an-eaa-chapter

Robots
https://www.robofest.net/index.php/about/contact-us

Science Fiction Conventions
https://2022.penguicon.org/

http://www.confusionsf.org/

Mad Science
http://www.madscience.org/

ESD PE Review Class
https://www.esd.org/programs/pe/

Maker Faire:
https://swm.makerfaire.com/

It appears that the SouthWest Michigan Maker Faire was a casualty of the Global Pandemic, as were many of our friends and several organizations.

However, we retain this link for anyone wishing to make contact and consider pumping life back into what was a wonderful experience.

Executive Committee

The Executive Committee is the primary coordination unit for Southeastern Michigan (SEM) IEEE operations. The basic organization chart below shows the 2023 arrangement of communications links designed to provide inter-unit coordination and collaboration.

The SEM Executive Committee meets in a teleconference each month on usually on a Thursday at 6:30 pm. The specific meeting days, times, phone or WebEx numbers and log in codes are published on the IEEE SEM Website calendar: **http://r4.ieee.org/sem/** Click on the "Calendar" button in the top banner on the first page of the web site.

If you wish to attend, or just monitor the discussions, please contact **Christopher Johnson**, the section secretary at secretary@ieee-sem.org and request to be placed on the distribution list for a monthly copy of the agenda and minutes. More meeting details are available on the next page of this newsletter.

Other Meetings:
About half of our members maintain memberships in one or more of the IEEE technical societies, which automatically makes them members of the local chapter which is affiliated with that society. As a result, they should receive notices of the local chapter meetings each month.

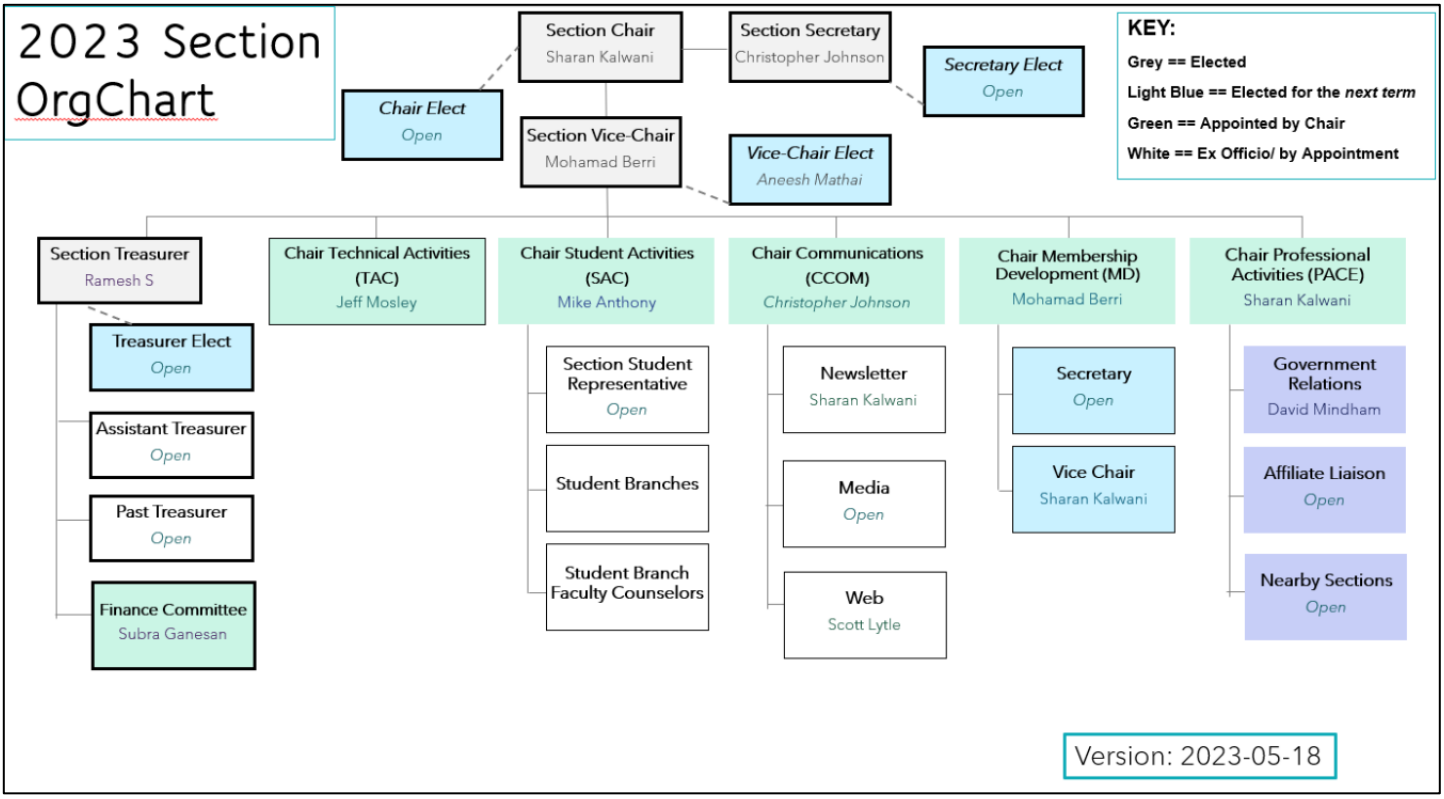
However, members of the section may have multiple technical interests and would like to have meeting information of other chapters. In order to communicate the meeting dates of all the chapters, affinity groups etc., to our members to facilitate their attendance, leaders of the groups are requested to send meeting information to our webmasters for posting on section's calendar.

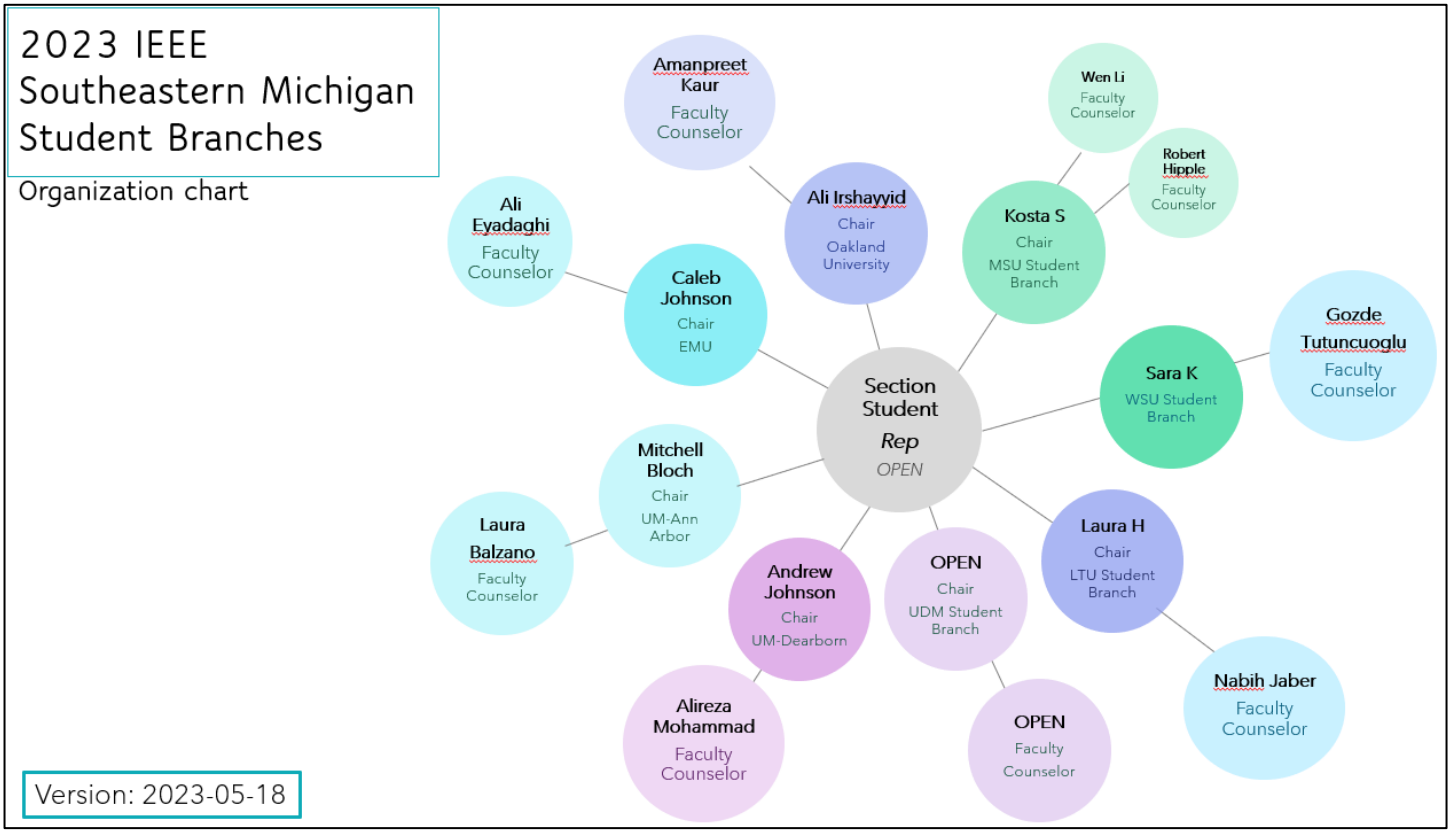
More detailed information on meetings may be found through the IEEE SEM Website: **http://r4.ieee.org/sem/** and clicking on the **SEM meetings list** button near the bottom of the left-hand banner.

Automatic e-mail notification of web updates may be received using the "**Email Notifications**" button at the top of the **SEM Tools/Links** side banner.

Christopher Johnson (Secretary)
Email: secretary@ieee-sem.org

If you wish to download the complete SEM Organization Chart, in PDF format, it will be made available soon at http://r4.ieee.org/sem/ . In the meantime, you may use the diagram below (recently refreshed!)





ExCom Meeting Schedule

NOTE: All SEM members are invited to attend ALL ExCom (Executive Committee) meetings:

Below is the 2023 schedule for the Section ExCom meetings with links to add the events to your calendar. It is important that ***at least one person*** from each Chapter/Affinity Group attends each scheduled ExCom meeting. Please mark your calendars for the 2023 meetings. Or, link your personal calendar to the SEM Web calendar.

Section Administrative Committee (ExCom) Meeting Schedule for 2023: (clickable links)

Note: All IEEE Members are welcome at any IEEE meeting, at any time but please register so we can be sure to accommodate you. This month's meeting is highlighted in **Bold**.

ExCom Meeting (all clickable links)	*Date & Time*
SEM Section ExCom Monthly Meeting (virtual) For JULY 2023	13 Jul 6:30 PM
SEM Section ExCom Monthly Meeting (virtual) For AUGUST 2023	10 Aug 6:30 PM
SEM Section ExCom Monthly Meeting (virtual) For SEPTEMBER 2023	14 Sep 6:30 PM
SEM Section ExCom Monthly Meeting (virtual) For OCTOBER 2023	12 Oct 6:30 PM
SEM Section ExCom Monthly Meeting (virtual) For NOVEMBER 2023	9 Nov 6:30 PM
SEM Section ExCom Monthly Meeting (virtual) For DECEMBER 2023	14 Dec 6:30 PM

Christopher Johnson (Secretary)
Email: secretary@ieee-sem.org

Section Administrative Committee (ExCom) Meeting Schedule for 2023: (screen snapshot)

Title	Date	Host	Location	Options
SEM Section ExCom Monthly Meeting (virtual) For JUNE 2023	08 Jun 2023 06:30 PM	R40035		View
SEM Section ExCom Monthly Meeting (virtual) For JULY 2023	13 Jul 2023 06:30 PM	R40035		View
SEM Section ExCom Monthly Meeting (virtual) For AUGUST 2023	10 Aug 2023 06:30 PM	R40035		View
SEM Section ExCom Monthly Meeting (virtual) For SEPTEMBER 2023	14 Sep 2023 06:30 PM	R40035		View
SEM Section ExCom Monthly Meeting (virtual) For OCTOBER 2023	12 Oct 2023 06:30 PM	R40035		View
SEM Section ExCom Monthly Meeting (virtual) For NOVEMBER 2023	09 Nov 2023 06:30 PM	R40035		View
SEM Section ExCom Monthly Meeting (virtual) For DECEMBER 2023	14 Dec 2023 06:30 PM	R40035		View

Editorial Corner

Previous editions in this series may be found on the IEEE SEM website at: http://r4.ieee.org/sem/. Click on the "Wavelengths" button in the top row of selections.

Comments and suggestions may be sent to the editorial team at wavelengths@ieee-sem.org
OR
sharan.kalwani@ieee.org
d.romanchik@ieee.org
nilesh.dudhaia@ieee.org
k.williams@ieee.org
cgjohnson@ieee.org
lunnmalcolm@me.com
akio@emcsociety.org

We rely on our officers and members to provide the 'copy' that we finally present to readers of the newsletter.
The **Wavelengths Focus Plan and Personal Profiles** plan shown in the matrix below is presented to ensure coverage of section activities and events.

We try to complete the newsletter layout a week before the first of the month to allow time for review and corrections. If you have an article or notice, please submit it two weeks before the first of the month or earlier if possible.

The plan below relies on the contributions of our members and officers, so please do not be shy. If you have something that should be shared with the rest of the section, we want to give you that opportunity.

We always encourage all chapters and student branches to share news of activities (both past and future) in their arenas. Please feel free to share any and all information so your peers, colleagues can hear about all the good work you do.

Quote:
"If a tree falls in a forest and no one hears it, how do you know it actually fell??"

So, publicize your work, one never knows when it can pay off!

Editors:

We are always looking for members interested in helping to edit the newsletter. The process is always more fun with more people to share the duties. Having more participants and contributors also helps us keep the newsletter interesting.

Join the Team:

If you feel you might like to join the team, or would like to train with us, please contact one of us at:
wavelengths@ieee-sem.org

Sharan Kalwani,
Chair, IEEE SE Michigan Education Society Chapter
Vice-Chair, IEEE SE Michigan Computer Society Chapter
Co-Editor, Wavelengths,
2018~2019~2020~2021~2022-2023

Wavelengths Annual Publication Plan for Articles

Month	AG's	Ch's	Ch's	SB's	Special Notice	Reporting Events	Monthly Focus	Awards
Jan		*1*		*OU*	*New Year Officers*	*Officer's Welcome*	*The Year Ahead*	
Feb	*Cons*	*2*		*MSU*	*Science Fair Judges*	*National Engrs Wk.*	*Surviving Winter*	
Mar		*3*	*13*	*EMU*	*Elections - Prep*			
Apr		*4*		*U/M-D*		*ESD Gold Awards*	*Chapter Focus*	
May	*Life*	*5*	*14*			*Science Fair*		
Jun		*6*					*Leadership Skills*	
Jul		*7*	*15*				*Students Issues*	
Aug	*WIE*	*8*			*Nominations Call*		*Womens Issues*	
Sep		*9*	*16*	*LTU*	*Ballots*	*Engineers Day?*	*Professional Skills*	
Oct		*10*		*U/M-AA*	*Elections!*	*IEEE Day*		
Nov	*YP*	*11*	*17*	*WSU*	*Election Results*	*New Fellows*		
Dec		*12*		*U/D-M*	*IEEE-Com Apmts.*		*Happy Holidays*	*R4 Nom*

Wavelengths Annual Publication Plan for Personal Profiles

Month	Profiles	Profiles	Committees
Jan	Chair	New Officers	ExCom
Feb	Treasurer		Communications
Mar	Secretary		Conference
Apr	Stud-Rep		Education
May	V-Chair		Executive
Jun	Sect-Adviser		Finance
Jul	Sr Officers		Membership
Aug			Nominations
Sep			PACE
Oct			Student Activiies
Nov			Technical Activiies
Dec	Editor-WL		

IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

Web & Social Sites

Southeastern Michigan Section Website
http://r4.ieee.org/sem/

Each of the sites below may be accessed through the Website:

Section Website Event Calendar
(Select the "SEM Calendar" button - top row)

SEM Facebook Page
(Select the "f" button under the top row)
https://www.facebook.com/groups/ieeesemich

SEM LinkedIn Page
(Select the "in" button under the top row)
https://www.linkedin.com/groups/1766687/

SEM Twitter Account (new)
(Select the "t" button under the top row)
https://www.twitter.com/ieeesemich

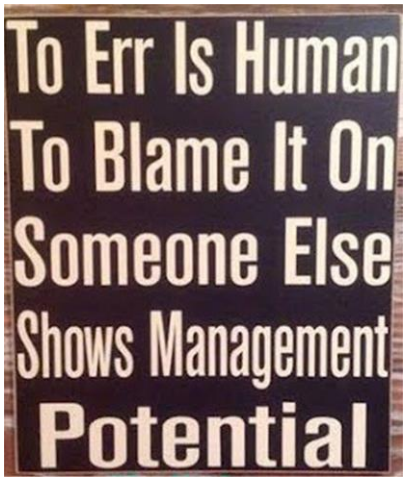
SEM Collabratec Workspace (new)
https://ieee-collabratec.ieee.org/app/workspaces/5979/IEEE-Southeastern-Michigan-Section/activities

SEM Officers:
For a complete listing of all - Section - Standing Committee - Affinity Group - Chapter and Student Branch Officers, see the SEM Officers Roster on the web page (top banner)

IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

IEEE Southeastern Michigan

Visit Us on the Web at:
http://r4.ieee.org/sem



Leadership Meetings

SEM Executive Committee Monthly Teleconferences:

- 2nd Thursday of Each Month @ 6:30 PM
- Check the Section Web Calendar at:
  http://r4.ieee.org/sem/sem-calendar/
  (Select the "SEM Calendar" button in the top row.)

OR

SEM Executive Committee Meetings:

- Find the location, and Registration at:
  http://bit.ly/sem-ieee

SEM Standing Committee Meetings:
SEM Affinity Group Meetings:
SEM Technical Society/Chapter Meetings:
SEM University Student Branch Meetings:

- Meeting schedules are announced on SEM Calendar
  http://r4.ieee.org/sem/
  (Select the "SEM Calendar" button in the top row.)

- Registration for all at:
  http://bit.ly/sem-upcoming