

Wavelengths



Volume 62 – Issue 04

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Upcoming Events

We have several events coming up this month. Listed below are some of the events, FYI.

Event	Date	Time
MOVIE: Predictions by the Numbers	01 April	05:00 PM
MOVIE: REVOLUTION OS	05 April	06:00 PM
Progress Toward Understanding Turbulence and Transport in I-mode Plasmas	06 April	03:30 PM
SEM Section ExCom Monthly Meeting (TELECONFERENCE) for April 2022	07 April	06:30 PM
Revenge of the Electric Car: Movie	08 April	05:00 PM
Senior Member Elevation (a Virtual Event!)	09 April	10:00 AM
Ch8: AdCom Teleconference	14 April	11:00 AM
MOVIE: CODE RUSH	14 April	06:00 PM
How can Neuroscience help AI/ML	19 April	06:00 PM
EMC Society Monthly tech Meeting	21 April	05:30 PM
EMC Fest 2022	12 May	08:00 AM

Note: All times are EST/EDT. If any events are missed do kindly bring them to the attention of wavelengths@ieee-sem.org. Thank you!

Chair's Column

This is the 4th column I am now sharing with all of our IEEE Southeastern Michigan community. We continue to refresh our website and post more events to the social media sites. I repeat a major new item – which we have seen in the past – is often new and sometimes existing members ask – how can I contact the chair or who is the treasurer or secretary etc.? Going forward, to ensure business continuity, we are creating email aliases, so one need not try to remember or hunt for the contact information! Thus, one can use the following:

- 📧 Chair is chair@ieee-sem.org
- 📧 Vice Chair is vicechair@ieee-sem.org
- 📧 Treasurer is treasurer@ieee-sem.org
- 📧 Secretary is secretary@ieee-sem.org!

I encourage you to add us to your twitter feed:

- ✓ Twitter ~ <https://www.twitter.com/ieeesemich>

In March our Computer Society Chapter honored 4 industry partners: Intrepid Control Systems, MathWorks, Infineon and Beningo Embedded Group. IEEE at the highest levels is encouraging industry engagement and Chapter 5 is doing that in spades. So, congrats to all the industry folks!

I would like to encourage all our members to consider **volunteering** to the role of our social media moderators, which is easy to do, and we would be happy to show you're the ropes. Essentially it involves noticing articles of EE technical interest and sharing it on those sites. Of course, our Section events take top priority 😊! Feel free to reach out to any of the section officers and connect so we can put you in touch with the right people.

Upcoming events in our region are plenty. You can find announcements on ALL of public facing sites (you can use the icons below as well). We have another eclectic crop of informative documentary movies. On April 19th, Dr KP Unni from eNeuroLearn (an Ann Arbor based startup) is going to talk about using AI & Machine Learning, taking inspiration from nature. EMCFest is coming up in May as also a PACE event – this time to learn on matters concerning us engineers and things happening at the government level.

The next ExCom meeting is on the 7th of April, you will get reminders from me and Christopher Johnson as well. I would love to hear from everyone, the full list of ExCom meetings and their links has been published in this and every newsletter as well as on vtools. One of the major topics will be the 2022 Budget. I also plan to reach out to all the Student branches and re-engage them with our Section. In these days of pandemic restrictions, it is important NOT to lose touch with our past, current, future potential members and remain engaged w/ our community!

Sharan Kalwani

Via email: chair@ieee-sem.org

Section members are encouraged to engage using any of these online platforms:



Technical Activities Report

2022 IEEE SE Michigan Section Geo-unit Status (Till March 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	0	0	Consultants Network	0	0
LIFE	0	0	0	0	0	0	Life Members	0	0
WIE	0	0	0	2	0	0	Women In Engineering	0	2
YP	0	0	0	0	0	0	Young Professionals	0	0
1	78	0	1	0	0	0	Circuits & Systems, Signal Proc., Info Th.	0	1
2	78	0	1	0	0	0	Vehicular Technology	0	1
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	27	5	13	1	1	1	Computers	0	16
6	0	0	0	0	0	0	Geoscience & Remote Sensing	0	0
7	0	0	0	2	0	0	Power Engineering, Industrial App.	0	2
8	43	21	3	3	0	1	Electromagnetic Compatibility (EMC)	0	7
9	58	10	1	0	0	0	Power Electronics, Industrial Electronics	0	1
10	0	0	0	0	0	0	Engineering Management	2	0
11	55	37	1	0	0	0	Eng. in Medicine & Biology	0	1
12	0	0	0	0	0	0	Control Systems	0	0
13	14	3	10	0	0	1	Education	0	11
14	0	0	0	0	0	0	Robotics & Automation	0	0
15	42	27	4	0	0	0	Nuclear Plasma Science Society	0	4
16	78	0	1	0	0	0	Computational Intelligence / Sys.Man.Cyber.	0	1
17	0	0	0	0	0	0	Nano Technology Council	0	0
SEM	67	10	2	4	0	0	SEM (Section)	3	6
Tot	540	113	37	12	1	3	NOTE: Highlight Green = Active	5	53
		21%					NOTE: Highlight clear = Concern		

The monthly Section Health report now includes columns representing the numbers of Unreported Meetings see Column I, (#Unreported) as well as Total Meetings Column J see (Total Mtgs) for each GA. GA leaders are requested to review the report and clarify any unreported meeting activity by either submitting the appropriate L31 status report or by contacting the undersigned for assistance.

Our Section receives funds to support our technical meetings as a result of the reported meetings from our GAs. Let's start this year as strong as possible, by getting our meeting reports into the system. Remember that our technical chapters and societies can request Section funds for snacks and beverages etc. in support of live meetings. Please contact our Section Treasurer or myself

Please endeavor to engage your group membership by: 1. Meeting live or virtually to discuss IEEE presentations or other technical content germane to your group; 2. Invite members or outside speakers to present relevant technical achievements and or issues; and 3. Collaborate with other GAs on relevant joint technical topics of interest via webinar. These are just a few suggestions to maintain healthy technical interchanges within our Section. Your Technical Activities Committee (TACom) stands ready to assist as needed. Stay well and stay safe.

Jeff Mosley
 Chair, Technical Activities Committee, R4 IEEE SE Michigan, jvmosley@ieee.org

EMCFest 2022

EMCFest 2022Register at <http://www.emcfest.org>

Date: 12 May 2022

Time: 08:00 AM to 05:00 PM EDT

Location: Embassy Suites 19525 Victor Parkway, Livonia, Michigan, 48152

Chapter website: <http://www.emcsociety.org>Event Website: <http://www.emcfest.org>

Program Outline:

6:00	Vendor Table Setup (till 8:30)
8:00	REGISTRATION & EXHIBITS
8:30	CONTINENTAL BREAKFAST
9:00	<i>Session 1 – EMC Concepts: Case studies of Passive Components, Power Distribution Network, and EMC Filters</i>
10:00	Break & Exhibits
11:00	<i>Session 2 – Developing a practical EMC pre-compliance test laboratory and key diagnostic tools/methodology</i>
12:00	LUNCH
1:00	<i>Session 3 – Practical and applied simulation examples (EMC test models, PDN analysis, PCB design rule checker)</i>
2:00	Break & Exhibits
3:00	<i>Session 4 – Switch-mode power supplies: EMC Design, Diagnostics & Emissions Control</i>
4:00	Reception

FEE SCHEDULE

IEEE Members Before April 17	\$50
Non-Members Before April 17	\$75
IEEE Students Before April 17	\$25
Vendor Extra Staff Before April 17	\$50
Retired Before April 17	\$25
Unemployed Before April 17	\$25
Life Members Before April 17	\$25
CEU Units *	\$25
All Late or At the Door	\$100

See complete information on the EMCFest website using the link above.

EMCFest (Continued)**EMCFest Speakers:**

Dr. Bogdan Adamczyk is professor and director of the EMC Center at Grand Valley State University where he develops EMC educational material and teaches EMC certificate courses for industry (www.gvsu.edu/emccenter/). He is an iNARTE certified EMC Master Design Engineer. He has taught numerous EMC courses for industry and authored over 50 publications on EMC education, measurement and testing. He is a technical editor for *Interference Technology Magazine* and writes a monthly column “EMC Concepts Explained” for *In Compliance Magazine*. He can be reached at adamczyk@gvsu.edu



Jim Teune is a co-founder and EMC Specialist at E3 Compliance which focuses on EMC and High-speed design, analysis and pre-compliance testing. He is an iNARTE certified EMC Engineer and Master EMC Design Engineer. Jim is an industrial partner of the EMC Center at Grand Valley State University and supports STEM activities. He has co-authored several papers for IEEE and ASEE (American Society of Engineering Educators) as well as articles for *In Compliance Magazine*. He can be reached at jim@e3compliance.com



Scott Mee is a co-founder and EMC specialist at E3 Compliance which focuses on EMC and High-speed design, analysis and pre-compliance testing. He is an iNARTE certified EMC Engineer and Master EMC Design Engineer. He has co-authored and presented numerous technical articles through the IEEE EMC symposia and publications. Scott is an industrial partner of the EMC Center at GVSU and supports academic and student activities to further EMC learning at the University. He can be reached at scott@e3compliance.com

2022 IAS Annual meeting



Invitation Message for 2022 IAS Annual Meeting

Dear Electrical Colleagues:

We are excited to invite your attendance and participation at the IEEE's 57th IAS Annual Meeting to be held October 9-13, 2022. The conference will be in Detroit, Michigan USA.

The IAS Annual Meeting has established a long tradition of providing a platform for practicing engineers, researchers, and technical experts to present and discuss current developments and future trends in applications of electrical technology to fields such as electrical standards, industrial and commercial power systems, data centers, process controls, robotics and automation, electrostatics, mining, metals, smart grid, smart cities, and smart manufacturing.

Our conference venue and meeting space will be at the world-class Detroit convention center, which has been newly renamed as "Huntington Place". City of Detroit is known for being historical birthplace of the modern automobile industry. Our IAS Annual Meeting will be co-located with the 2022 Energy Conversion Congress and Exposition (ECCE). IAS Annual Meeting delegates are invited to attend some selected ECCE activities, such as the Monday Plenary Session and the ECCE Technical Expo, which are open to attendees from both conferences. With such a great setting for our two conferences, there will be ample opportunities for attendees to enjoy social events and networking amongst other engineers, industry folks, academic faculty, and of course students.

Our "Call for Papers" with deadline dates has been posted on our conference website at: <https://ias.ieee.org/2022annualmeeting/call-for-papers.html> It incorporates a "Call for Tutorials" as well. And for more general information regarding the overall conference, please visit the conference website at: <https://ias.ieee.org/2022annualmeeting>

On behalf of the entire conference organizing committee, we look forward to your participation in the 2022 IAS Annual Meeting!

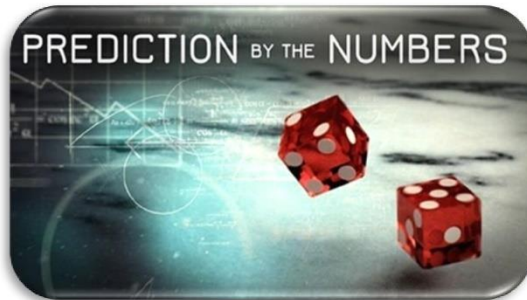
Sincerely,

David Eng
General Chair, IAS AM-2022
Email: engdd412@ieee.org

Predictions by the Numbers

IEEE SE Michigan Computer Society Chapter

Presents:

Predictions by the Numbers*Prediction by the Numbers (PBS NOVA Special):*

Predictions underlie nearly every aspect of our lives, from sports, politics, and medical decisions to the morning commute. With the explosion of digital technology, the internet, and “big data,” the science of forecasting is flourishing. But why do some predictions succeed spectacularly while others fail abysmally? And how can we find meaningful patterns amidst chaos and uncertainty? From the glitz of casinos and TV game shows to the life-and-death stakes of storm forecasts and the flaws of opinion polls that can swing an election, “Prediction by the Numbers” explores stories of statistics in action. Yet advances in machine learning and big data models that increasingly rule our lives are also posing big, disturbing questions. How much should we trust predictions made by algorithms when we don’t understand how they arrive at them? And how far ahead can we really forecast?

Documentary Highlights:

Running Time: 53 minutes, first aired February 2018.

At Glance

- **When:**
Date: April 1, 2022
Time: 05:00 – 6:30 PM
(EST/EDT)
- **Where:**
Online via Webex (to be shared only after you have a confirmed registration)
- **Audience: OPEN to ALL***

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***Pre-Registration Required!**

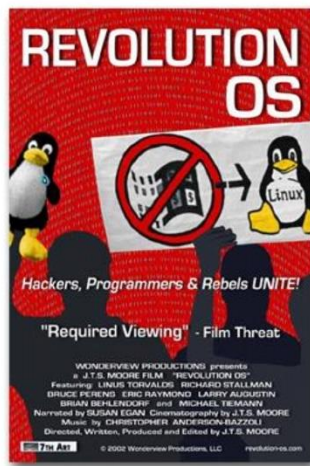
<https://events.vtools.ieee.org/m/308204>



IEEE Southeastern Michigan Section

Revolution OS: movie

IEEE SE Michigan Computer Society Chapter
Presents:
Revolution OS



At Glance

• When:

Date: April 5, 2022

Time: 06:00 – 7:30 PM
(EST/EDT)

• Where:

Online via Webex (to be shared only after you have a confirmed registration)

• Audience: OPEN to ALL*

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Revolution OS is a documentary film that traces the twenty-year history of GNU, Linux, open source, and the free software movement.

Documentary Highlights:

Running Time: 1 hour 20 minutes, first aired 2001. Directed by J. T. S. Moore, the film features interviews with prominent hackers and entrepreneurs including Richard Stallman, Michael Tiemann, Linus Torvalds, Larry Augustin, Eric S. Raymond, Bruce Perens, Frank Hecker and Brian Behlendorf.

***Pre-Registration Required!**

<https://events.vtools.ieee.org/m/308205>



IEEE Southeastern Michigan Section

2022 Volunteers

Because, of the meeting restrictions during the covid pandemic, many if not most, of our members have never met our Geo-unit officers 'face-to-face'. Of course, that also means our officers have not met most of their members either. This presents problems in several areas that need to be considered and addressed.

In the normal course of events, members change jobs and move to other parts of the world. When that happens, our Standing Committees and Geo-units lose valuable talent and the contributions that were being made by those absent members. The same often happens when students graduate and find employment in other locals. Of course, we wish our members well in their new adventures. But it leaves a gap in our ability to function as a professional society.

To fill vacancies in any organization we usually first call on those members we know who would be interested and capable in handling the tasks needed to fill a manpower gap. The lack of close contact over the last two years has meant that our leadership is less familiar with all our members, and their talents and abilities than we would normally be. Which makes filling gaps in our Committee and Geo-unit rosters 'difficult'. Also, since our members have less contact with the leaders of the society, they are in the same difficulty trying to determine where their skills might best be used.

Each of us can view the current roster of elected and appointed officers in our Section as a downloadable PDF file on the SEM Website under the 'About SEM' TAB. If you do not know how to find the SEM Website, you may download the Roster directly using the link below:

<https://r4.ieee.org/sem/wp-content/uploads/sites/6/2022/03/Organization Roster 3.23.2022 Rev0.pdf>

Once you have opened the Roster PDF file, notice how it is arranged:

- First the Executive Committee (primary Section leadership).
- Then the Standing Committees which carry on most of the work of the Section.
- The Affinity Groups follow next, (Consultants / Life Members / Women in Engineering / Young Professionals)
- Our 17 Technical Chapters follow – with their represented Societies clearly shown in the titles.
- Student Branches at our Universities (we have eight).
- Student Technical Chapters (four of these) and
- HKN (Eta Kapa Nu) IEEE Honors Society Chapters (7 University Chapters and the Alumni Chapter).

An example of the information that can be found in the 'Roster' is shown below for one of our technical chapters:

Southeastern Michigan Section		Officers Name	Access Code	e-mail
Industrial Electronics and Power Electronics: Ch9			CH04057	
Chair	Van Wagner			wagnerv3@gmail.com
V-Ch				
Director(IndElect)				
Director(Pwr Elect)				
Secretary	Shanelle Foster			hogansha@egr.msu.edu
Treasurer				
Past-Ch				

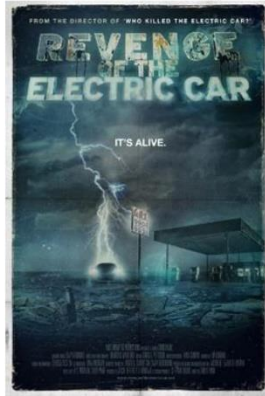
The vacant positions are shown in bright yellow. Here is where we can all help make a difference. Contact the current Chair, or Vice-Chair and talk with them to find out if your abilities and interests might be a good fit for that position. In addition, check out the 'Volunteer Portal' on the SEM Website, to find out just what the qualifications for the position might be. <http://r4.ieee.org/sem/about-sem/volunteer-portal/> Serving in an IEEE position is both a service to your professional organization but also a training experience in areas of learning that will expand your view of the world.

Revenge of the Electric Car

IEEE SE Michigan Computer Society Chapter

Presents:

Revenge of the Electric Car



Revenge follows 4 entrepreneurs from 2007 through the end of 2010 as they fight to bring the electric car back to the world market in the midst of the 2008 global recession. The film has unprecedented access to Tesla, Inc. co-founder Elon Musk during this time period, Also featured are Bib Lutz, Carlos Ghosn and Greg Abbott. They make the case for independent electric car conversions in California.

Documentary Highlights:

Running Time: 88 minutes. Released in 2011.



At Glance

- **When:**
Date: April 8, 2022
Time: 05:00 – 6:30 PM (EST/EDT)
- **Where:**
Online via Webex (to be shared only after you have a confirmed registration)
- **Audience: OPEN to ALL***

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***Pre-Registration Required!**

<https://events.vtools.ieee.org/m/308207>



IEEE Southeastern Michigan Section

Feedback

Giving Feedback at Work:

When you feel you've been wronged, it's natural to want to lay into the offending person, give negative feedback, and tell him exactly what you think. The problem with doing this is that as soon as a person feels accused, he becomes defensive. And when people are put on the defensive and feel threatened, they stop listening. And you've potentially damaged your workplace relationship.

When someone **does something for the first time** that violates your expectations, use the lowest level of intervention necessary. Allow the person to save face, and ask for what you want, without giving an abundance of negative feedback and pointing out all the things he's done wrong.

Likewise, when you cut your finger while cooking, you put a Band-Aid on your finger. You don't cut off the finger. This is true with business communication too.

When you're facilitating a meeting, you can ask the two people who are side talking to stop, or you can go third grade on them and ask, "Is there something you want to share with the rest of us?" Both methods will stop the behavior. But one embarrasses the side talkers a lot, the other only a little.

Likewise, when one of your coworkers takes credit for your work, **you can give feedback** and say, "I noticed you told Mike that you worked on that project, when we both know that you didn't. Why did you do that?" Or you can skip the accusation and ask a question instead, saying, "I noticed you told Mike you worked on that project. Can I ask why you did that?" From there you can have a discussion, give feedback if you need to, and negotiate.

When your boss doesn't make time to meet with you, rather than saying, "You don't make time for me. That makes it hard for me to do my job and makes me feel unimportant." Instead consider saying, "I know how busy you are. Your input is really important in helping me move forward with projects. How can we find 30 minutes a week to connect so I can get your input and stay on track?"

In each of the situations above, you'd be justified in calling the person out and **giving negative feedback**. And it might feel good in the moment. But being right doesn't get you closer to what you want, and it can damage your workplace relationships.

Practice good business communication –say as little as you have to, to get what you want. If this method doesn't work, then escalate, communicate more directly, and give direct feedback. The point is to get what you want, not to make the other person look bad. The better the 'offender' feels after the conversation, the more likely you are to get what you want in the future.

Shari Harley is the founder and President of *Candid Culture*, a Denver-based training firm that is bringing candor back to the workplace, making it easier to give feedback at work. Shari is the author of the business communication book *How to Say Anything to Anyone: A Guide to Building Business Relationships that Really Work*. She is a keynote speaker at conferences and does training throughout the U.S. Learn more about Shari Harley and *Candid Culture's* training programs at www.candidculture.com.

Senior Elevation!

**IEEE SE Michigan Section
Presents
“Senior Membership Elevation: 2022 Kickoff”**



IEEE Southeastern Michigan Section will commence for the 2022 season, its Senior Member Round up event (virtual) on April 9th between 10 AM and 12 noon (EST/EDT). Senior Member Reviewers will assist interested member candidates with significant years of experience in their profession.

The way it works is:

- At least a 10 years of significant experience with Bachelor’s degree needs be established to initiate the senior elevation.
- If you have a PhD that is considered to be 5 years of significant experience, so you need 5 additional years beyond that.
- If you have a master’s, that is considered to be 2 years of significant experience. So you will need 8 additional years to qualify.

There is no cost to becoming a Senior Member, and this step is a necessary prelude to seeking the IEEE ‘Fellow’ level. For a complete description of the Senior Member process and its benefits, see the link: http://www.ieee.org/membership_services/membership/grade_elevation.html

Potential senior members, please register on this site for the event and be ready with digital copies of your resume, and relevant supporting materials, to share with reviewers.

Existing Senior Members are requested to also register and assist potential new members with their application processing.

At Glance

- **When:**
Date: April 9th, 2022
Time: 10 am to 12 noon
- **Where:**
Online using Webex breakout rooms
- **Audience:** All Eligible Members, Senior members, and *potential* Members

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IEEE
SE Michigan Section
Membership Development*

Pre-Registration Required!
<https://events.vtools.ieee.org/m/307464>



Member News

Possible embedded job opportunities at [ARI](#).

They have 1 trainee and 2 experienced (2~3years) positions available. Please forward this to anyone who might benefit from this opportunity. They can forward the resumes to kvenisetty@ariglobalsolutions.com

Job Responsibilities

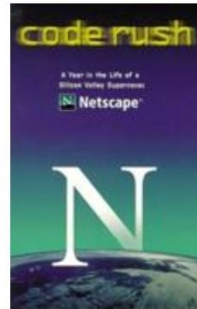
- Resolve software defects in C language
- Develop relevant test cases for software validation.
- Complete embedded software development processes including developing, testing, production, and product support.
- Perform code reviews for the peers.
- Develop high level and detailed documentation.
- Experience in MATLAB is preferred.

Curated by

Sharan Kalwani,
Co-Editor, Wavelengths,
2017~2018~2019~2020~2021~2022
Email: Sharan.Kalwani@ieee.org

Code rush: movie

IEEE SE Michigan Computer Society Chapter
Presents:
Code Rush



Code Rush is a documentary following the lives of a group of Netscape engineers in Silicon Valley. It covers Netscape's last year as an independent company, from their announcement of the Mozilla open-source project until their acquisition by AOL. It focuses on the last-minute rush to make the Mozilla source code ready for release by the deadline of March 31, 1998, and the impact on the engineers' lives and families as they attempt to save the company from ruin.

Documentary Highlights:

Running Time: 56 minutes, March 2000 release. Features interviews with Jim Barksdale (CEO), Scott Collins (now known as Wolf), Tara Hernandez, Stuart Parmenter, then a 16-year-old open-source volunteer, Jim Roskind, Michael Toy (co-author of Rogue), Jamie Zawinski and Brendan Eich.

***Pre-Registration Required!**

<https://events.vtools.ieee.org/m/308206>



IEEE Southeastern Michigan Section

At Glance

- **When:**
Date: April 14, 2022
Time: 06:00 – 7:30 PM (EST/EDT)
- **Where:**
Online via Webex (to be shared only after you have a confirmed registration)
- **Audience: OPEN to ALL***

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IFIP Intelligent Vehicle Workshop



WG.10.4



Second Workshop on Intelligent Vehicle Dependability and Security

IFIP Working Group 10.4

23-26 June 2022, Alexandria, Virginia USA (National Capitol Region)

The Intelligent Vehicle Dependability and Security (IVDS) project of [IFIP Working Group 10.4](#) (Dependable Computing and Fault Tolerance) will host its 2nd workshop in June 2022. This follows a successful [First IVDS Workshop](#), held (virtually) in January 2021. Working Group 10.4, through its workshops, its affiliations with larger conferences, and landmark publications by many of its members, has contributed significantly to both R&D and application of highly dependable and secure computing systems since its establishment in 1980.

Workshop Objective: The workshop focus is: “**How to Survive Cyber Attacks on Safety-Critical Functions of Intelligent Vehicles.**” Our objective is to discuss design solutions, quantitative cyber-survivability measures, verification and validation, and regulatory issues with regard to impact of cyber attacks on autonomous vehicle safety.

Specific topics and issues and other details concerning the workshop can be found [here](#).

The expected workshop outcome is a set of specific actions, both short term and long term, to achieve the IVDS project's vision, mission and goals.

When: Thursday, 23 June (evening reception) to Sunday, 26 June noon (lunch).

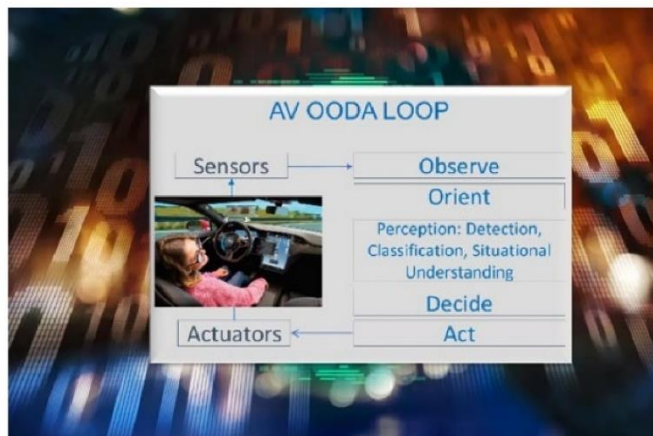
Where: [Hilton Old Town Alexandria](#), Virginia, USA.

Format: Each session will be organized as several presentations or a panel, followed by a lengthy discussion with presenters/panelists.

Registration & Fees: Workshop is limited to WG10.4 members and invited guests. This is an in-person workshop. There will be no virtual speakers or attendees. Registration fee TBD.

IVDS Project Vision: The vision of this project is the realization of highly dependable and secure operation of intelligent vehicles, verified and validated with respect to quantifiable dependability (particularly safety) and security requirements by rigorous state-of-the-art methods. Types of vehicle intelligence assumed in the vision are principally those associated with SAE Driving Automation Levels 3-5. Additional information regarding the project's activities can be found on the [IVDS Project home page](#).

Organizing Committee: Dr. Jaynarayan Lala, jay.lala@rtx.com (Project Lead); Prof. John Meyer jfm@umich.edu, Prof. Carl Landwehr carl.landwehr@gmail.com, Dr. Charles Weinstock weinstock@conjelco.com, Prof. Homa Alemzadeh ha4d@virginia.edu, Prof. Cristina Nita-Rotaru c.nitarotaru@northeastern.edu and Dr. Wilfried Steiner wilfried.steiner@tttech.com



Student EMC contest



2022 Student EMC Hardware Design Contest

The Education Committee (EdCom) of the IEEE EMC Society would like to invite students currently enrolled in a college or university at either the graduate or under-graduate level to submit a short video (max 10 minutes) that demonstrates a fundamental concept of Electromagnetic Compatibility (EMC), Signal & Power Integrity (SIPI), or related topic. Submitted videos should be both entertaining and educational. They should be hardware demonstrations, not software simulations. The contest is designed to provide an opportunity for student competitors to showcase their creative skills while informing other students or the general public about a topic relevant to EMC or SIPI. Videos should be designed and produced by a student or a small group of students working together. Advisors should limit their help to answering basic EMC questions from the student once the project has begun.



Competition Coordinators

Pavithrkrishnan Radhakrishnan
Mohammad Kameli
Zhao Chen

KU Leuven
Bruges, Belgium

2022 IEEE INTERNATIONAL SYMPOSIUM ON
ELECTROMAGNETIC COMPATIBILITY, SIGNAL & POWER INTEGRITY



emc2022.emcss.org

SCHEDULE

Student EMC Hardware Design Contest Schedule

- Enrollment period is open from: January 3, 2022
- Deadline to submit videos: April 29, 2022
- Notification of winners: June 17, 2022
- Top 3 finalists will be listed in the conference program.
- Winning entries will be recognized at the Awards Luncheon IEEE EMC + SIPI 2022: August 4, 2022

STUDENT HARDWARE DESIGN COMPETITION GENERAL RULES

1. The Team should include a mentor (i.e academic advisor, industry professional, etc.). Entries are limited to one team per mentor.
2. Student groups are expected to complete the work on their own.
3. The student(s) should use the corresponding institutional email address rather than their personal emails for all correspondence.
4. All submittals will be judged by a team comprised of several EMC Society Education Committee members based on technical design, creativity and educational merit/value.
5. The winning team will receive a first prize of \$1,000 USD plus a travel grant of a maximum of \$2,000 USD to cover the cost for one member or more members to attend the conference. The best runner up will receive a prize of \$500 USD. Award recipients will need to complete the appropriate US Department of the Treasury Internal Revenue Service forms as required by the IEEE. Travel stipend recipients will need to complete an expense account report for reimbursement.
6. The winning team will be asked to submit a brief article to IEEE EMC Magazine in order to share their design experience with the greater EMC Community.

STUDENT HARDWARE DESIGN COMPETITION INSTRUCTIONS

Submit the video or a link where the video can be viewed to:

Student Design Competition Coordinator
Pavithrkrishnan Radhakrishnan
(pavithrkrishnan.radhakrishnan@ieee.org)

Submissions should include the names of all team members and their institutional email addresses along with the mentor's name, title and email address. Submissions will be accepted anytime between January 3, and **April 29, 2022**. Prepare the video as instructed (title, team members, mentor name and institution name in the beginning with institutional background) and have the mentor prepare a letter stating that the video is the original work of the students. **This letter is mandatory.** The submitter will receive an email confirming reception of the contest entry.

Evaluation Criteria: Entries will be judged on technical design (35%), creativity (35%), and educational merit (30%).

How NeuroScience can help AI/ML?

IEEE SE Michigan Computer Society Chapter

Presents:

How Can Neuroscience Help AI/ML? by Dr KP Unnikrishnan

Inspired by complex systems in nature, we will present some unique features of mammalian sensory systems from a Neuroscience perspective. Many of these algorithmic and architectural features are not in current generation Deep Learning systems. Drawing from our recent work on Neural Networks and Capsule Networks with Generative and Attentional mechanisms, we show how these features can be incorporated into next generation Deep Learning systems.

Real-time sensory processing, scene analysis, and object recognition are needed before vision systems can become practical in Autonomous Vehicles. Multi-modal integration is natural in the next generation Deep Learning systems and we discuss how auditory signals can help with vision in these systems. We end the talk with a discussion on how such systems, with “Neuroscience Inside”, can make Autonomous Vehicles see like humans.

Speaker Bio:

KP Unnikrishnan is the co-founder and scientific director of eNeuroLearn, an Ann Arbor based AI/ML startup. eNeuroLearn brings architectures and algorithms from Neuroscience to enhance Deep Learning. He has worked in Neural Networks, Computational Neuroscience, Data Mining, and Deep Learning for the past 35 years. He has a PhD in Physics from Syracuse University and has worked at Bell Labs, Caltech, University of Michigan, General Motors Research, NorthShore University Health System and Ford Motor Company.

Pre-Registration Required!**<https://events.vtools.ieee.org/m/310139>**At a Glance*• When:**Date: April 19th, 2022Time: 06:00 – 7:30 PM
(EST/EDT)**• Where:**Online via Zoom (link sent
via email after your
register)**• Audience: OPEN to ALL***

ORG UNITS cheat sheet

Section Unit Name or Affinity Group or Chapter Name (Organizational Unit 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 SocietyChapter: 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 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)

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!

Curated & Maintained By
Sharan Kalwani,
Chair, IEEE SE Michigan Education Society Chapter
Vice-Chair, IEEE SE Michigan Computer Society Chapter
Editor, Wavelengths,
2018~2019~2020~2021~2022

Profile: Section Treasurer**Ramesh Sethu**

Ramesh S, has been with General Motors Global R&D in Warren, MI, where he currently holds the position of Senior Technical Fellow and thrust area lead for model based embedded software. At General Motors, he is responsible for providing technical leadership for research and development in several areas related to Electronics, Control & Software processes, methods, and tools.

Earlier he was in India Science Lab serving as the lab group manager for two research groups on Software and System Verification and Validation. During this time, he led several projects on next generation rigorous verification and testing methods for control software which resulted in proof-of-concept methods and tools that were piloted on several SW subsystems across different domains like BCM, HVAC and Active Safety.

His broad areas of interests are Rigorous Software Engineering, Embedded Systems and Real-Time Systems. He is the author of several patents and has published more than 100 papers in peer-reviewed international journals and conferences. He is on the editorial boards of the International Journal on Real-Time Systems and EURASIP Journal on Embedded Systems and earlier on IEEE Journal on Embedded System Letters.

Prior to joining GM R&D, he was on the faculty of the department of Computer Science & Engineering at the Indian Institute of Technology (IIT) at Bombay, for more than fifteen years. At IIT Bombay, he played a major role in setting up a National Centre for Formal Design and Verification of Software. As the founding head of this Centre, he carried out many projects on verification of embedded software, for several Government organizations. He is a fellow of the Indian National Academy of Engineering and was visiting/adjunct faculty of many institutions.

Ramesh earned his B.E. degree in Electronics and Communication Engineering from the *Indian Institute of Science, Bangalore* and his PhD degree in Computer Science & Engineering from *IIT, Bombay*.

Ramesh can be reached at treasurer@ieee-sem.org

RoboFest Update

(1) Robofest Online World Championship Events

(2) [Dr. Chung to lead NSF Research Experience for Undergraduates – Looking for Candidates](#)

(3) **Summer Camp Dates Announced**

(4) [Robofest 2022 Sponsors](#)

(5) **In Search of 5, 10, 15 and 20 Coach Award Recipients**

(6) [Coach Shipping Address Required for ROWC Teams](#)

Note: All times are listed in EDT unless noted

(1) Robofest Online World Championship Events

Space is available in the Robofest Online World Championship Open Categories. Registration is open. International teams in member countries will be selected by the International Director. The events will be hosted either through an online synchronous format OR video submission with the following schedule:

ROWC OPEN CATEGORY	DATE	ROWC OPEN CATEGORY	DUE DATE
Sr UMC (Online)	Fri Apr 8	RoboArts (Video Submission)	May 6
Jr UMC (Online)	Sat Apr 9	RoboMed (Video Submission)	May 6
Sr Bottle Sumo Time Trials (Online)	Fri Apr 22	RoboParade (Video Submission)	May 6
Jr Bottle Sumo Time Trials (Online)	Sat Apr 23		

Teams are currently competing in the 2022 Robofest Qualifiers and the winners will advance to the ROWC Game and Exhibition Finals:

ROWC FINALS	DATE	ROWC FINALS	DATE
Sr Exhibition Finals	Fri Apr 29	Sr Game Finals	Fri May 13
Jr Exhibition Finals	Sat Apr 30	Jr Game Finals	Sat May 14

The season will culminate with the ROWC Award Ceremony on Saturday, May 21. All events begin at 8:00 am EDT. Invite your friends and family to register for the webinars and watch the excitement! Zoom webinar links for each synchronous event are posted on the World Championship page of the Robofest.net website. <https://www.robofest.net/index.php/online-world-championship>

(2) [Dr. Chung to lead NSF Research Experience for Undergraduates – Looking for Candidates](#)

Congratulations to Dr. CJ Chung, Robofest Founder, for receiving a grant from the NSF (National Science Foundation) to conduct an 8-week Research Experience for Undergraduate Students this summer at LTU. Selected students will develop, test, analyze, and evaluate self-drive algorithms on street legal vehicles.

Participants will receive a stipend (\$4,800) and living expenses. For more information and directions to apply please visit: https://www.ltu.edu/arts_sciences/mathematics_computer_science/nsf.asp

Please share this information with your former Robofest students and anyone else who may be interested in applying.

Deadline is April 15.

(3) Robofest Summer Day Camps for Beginners

We are once again hosting one-day beginner summer camps for students to get hands-on experience with LEGO EV3 or VEX IQ robots. Each camp runs from 9:00 am to 3:30 pm in our Computer Science Robotics Lab on Lawrence Tech campus. Registration will open on April 29 for students going into 4th through 8th Grades. More dates may be added if interest is high.

Beginning RoboParade for EV3: Tuesday, June 21
Beginning BottleSumo for Vex IQ: Thursday, June 23
Beginning BottleSumo for EV3: TO BE ANNOUNCED

\$40 registration fee per team of up to 3 students / Bring your own lunch (water and snack provided). More information can be found under "Get Involved/ Camps" on the Robofest.net website. <https://robofest.net/index.php/current-competitions/camps0> Registration will open on April 15.

(4) Robofest 2022 Sponsors

Robofest would not be possible without the support from our generous sponsors. Thank you to all of our sponsors, past and present! Complete list can be found on the web at <https://www.robofest.net/index.php/about/current-sponsors>

If you would like to sponsor Robofest and have your name/organization included on all the Robofest marketing materials, please submit the Sponsorship Form: <https://www.robofest.net/images/SponsorshipForm22.pdf>

(5) In Search of 5, 10, 15 and 20 Coach Award Recipients

We would like to acknowledge our coaches who have coached Robofest teams for 5, 10, and 15 and ad now 20 years!

To submit your name, please send an email to robofest@ltu.edu with the subject *Coach Award*. Please include the coach name, coach ID (include all IDs used), and number of years coaching. We will recognize these dedicated coaches at the ROWC Awards Ceremony on May 21.

(6) Coach Shipping Address Required for ROWC Teams

US Coaches with teams in all ROWC events will need to be sure to update or add a current shipping address to their coach profile (Under the Coach Management menu). Robofest office will be automatically shipping team's participation certificates and medals as well as awards, so we need to have your current address on file. International teams may receive their materials from their International Director.

Lawrence Technological University / Robofest / J-233 / 21000 W. Ten Mile Rd, Southfield, MI 48075

Dr. Christopher Cartwright, Director, ccartwig@ltu.edu

Elmer Santos, Assistant Director, esantos@ltu.edu

Shannan Palonis, Coordinator, spalonis@ltu.edu

Pam Sparks, Coordinator, psparks@ltu.edu

Dr. CJ Chung, Advisory Board Chairperson (Volunteer), cchung@ltu.edu

<http://www.robofest.net>

<http://facebook.com/robofest>

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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: You may need to copy the URL and paste it into your browser address bar.**

Send details to: wavelengths@ieee-sem.org OR letters@ieee-sem.org

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Michigan Institute for Plasma Science and Engineering: Seminars for the 2021-2022 academic year:

https://mipse.umich.edu/seminars_2122.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/ea/ea-chapters/find-an-eea-chapter>

Robots

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

Science Fiction Conventions

<https://2021.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/>

Executive Committee

The SEM Executive Committee is the primary coordination unit for Southeastern Michigan (SEM) IEEE operations. The basic organization chart below shows the 2019/2020/2021/2022 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.

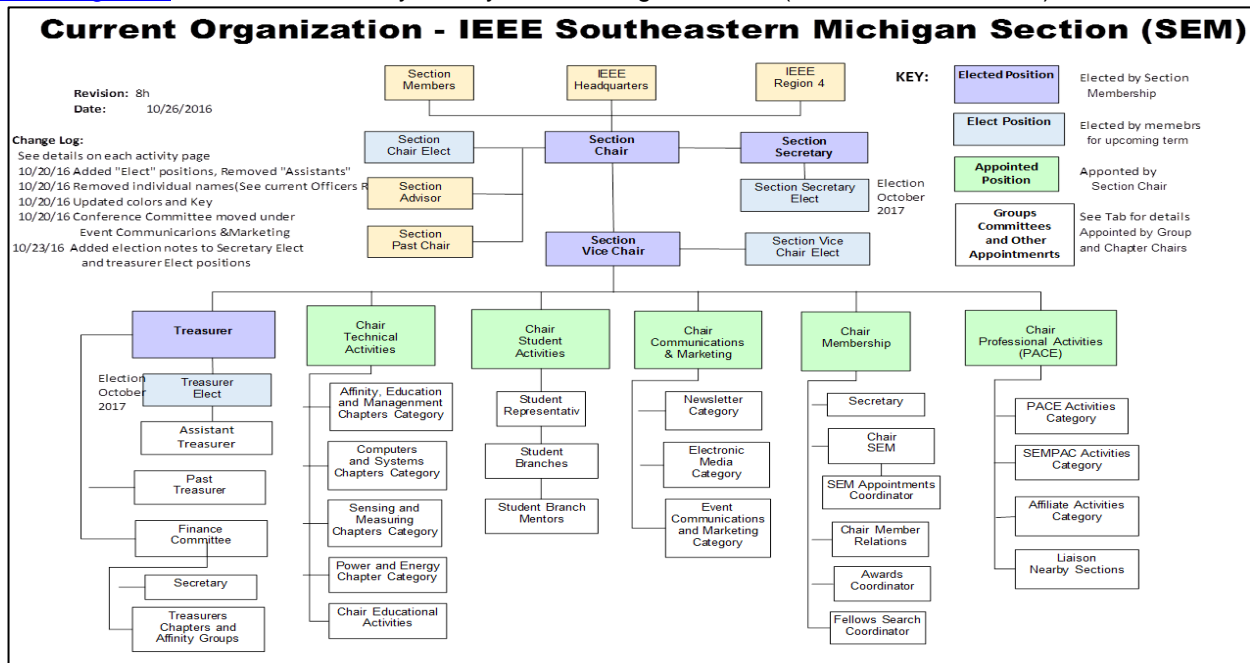
However, members of the section may have multiple technical interests and would like to have meeting information of other chapters. In order to communicate the meeting dates of all the chapters, affinity groups etc., to our members to facilitate their attendance, leaders of the groups are requested to 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-Elect)
 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 (soon to be refreshed!)



ExCom Meeting Schedule

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

Below is the 2022 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 2022 meetings. Or, link your personal calendar to the SEM Web calendar.

Section Administrative Committee (ExCom) Meeting Schedule for 2022:

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**.

<i>ExCom Meeting</i>	<i>Date & Time</i>
April 07,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for April 2022 https://events.vtools.ieee.org/m/289868	6:30 PM
May 05,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for May 2022 https://events.vtools.ieee.org/m/289869	6:30 PM
June 02,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for June 2022 https://events.vtools.ieee.org/m/289870	6:30 PM
July 07,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for July 2022 https://events.vtools.ieee.org/m/289871	6:30 PM
August 04,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for August 2022 https://events.vtools.ieee.org/m/289872	6:30 PM
Sept 01,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for September 2022 https://events.vtools.ieee.org/m/289873	6:30 PM
October 06,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for October 2022 https://events.vtools.ieee.org/m/289875	6:30 PM
Nov 03,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for November 2022 https://events.vtools.ieee.org/m/289876	6:30 PM
Dec 01,2022 - SEM Section ExCom Monthly Meeting (Teleconference) for December 2022 https://events.vtools.ieee.org/m/289877	6:30 PM

Christopher Johnson (Secretary Elect)

Email: secretary@ieee-sem.org

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

cjohnson@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

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		



Web & Social Sites

SEM Website

<http://r4.ieee.org/sem/>

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

Section Website Event Calendar

(Select the “SEM Calendar” button - top row)

SEM Facebook Page

(Select the “” button under the top row)

<https://www.facebook.com/groups/ieeesemich>

SEM LinkedIn Page

(Select the “” button under the top row)

<https://www.linkedin.com/groups/1766687/>

SEM Twitter Account (new)

(Select the “” button under the top row)

<https://www.twitter.com/ieeesemich>

SEM Collabratec Workspace (new)

<https://iee-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 SEM web page under the “About SEM” button and select “Organization Roster”

Section Officers

Section Chair

Sharan Kalwani

Section Vice-Chair

Mohammad Berri

Section Secretary

Chris Johnson

Section Treasurer

Ramesh Sethu

Standing Committees:

Section Adviser

Don Bramlett

Wavelengths Editor

Sharan Kalwani

Chair Educational

Christopher Guirlanda

Chair Finance Committee

Subra Ganesan

Chair Membership

Development
Mohamad Berri

Chair Nominations & Appointments

Kimball Williams

Chair PACE

Sharan Kalwani

Chair Student Activities

Mel Chi

Student Communications Coordinator

Michael Anthony

Student Representative

Open!

Chair Technical Activities

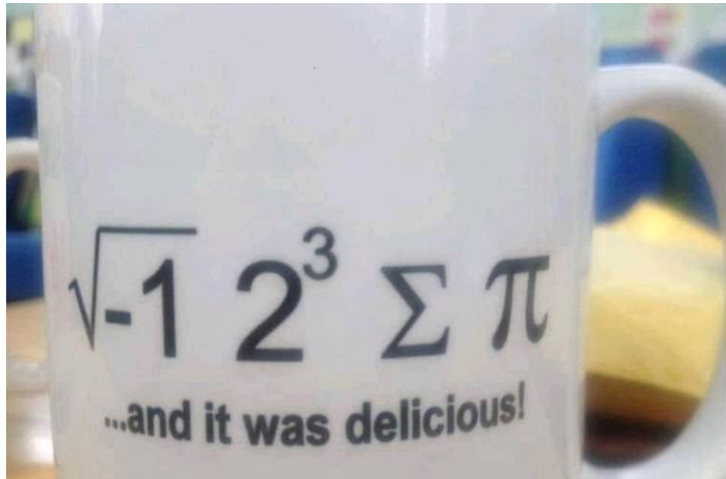
Jeffery Mosley



IEEE Southeastern Michigan

Visit Us on the Web at:

<http://r4.ieee.org/sem>



Advertising Rates

SEM Website & Newsletter

Leadership Meetings

SEM Executive Committee Monthly Teleconferences:

- 1st 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.)

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>