

Wavelengths



Volume 60 – Issue 01

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Upcoming Events

We have a number of events coming up this month. Be sure to check out the Section Website

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

As well as vtools:

[IEEE Region 4 - SE Michigan Section Upcoming](#)

Listed below are some of the events, FYI.

Event	Date	Time
Ch8: AdCom Teleconference	09 Jan 2020	11:00 AM
SEM Administrative F2F Meeting	22 Jan 2020	5 PM
Ch8: AdCom Teleconference	13 Feb 2020	11:00 AM
SEM Section ExCom Monthly Meeting (F2F) for March 2020	04 Mar 2020	06:00 PM

Chair's Message**A new year, a new chance to get involved!**

On January 22nd, the Southeastern Michigan Section will be hosting its quarterly Face to Face meeting of officers. The January meeting is a special one because it is the first meeting for many new officers.

Register for the meeting at:

<https://events.vtools.ieee.org/m/216751>

This meeting represents an excellent opportunity to get involved with the Section. Activities include:

- A meet and greet to get to know volunteers within the section. Some of our volunteers have been with the Section for decades, but for many, this will be their first meeting. Regardless of how long they've been involved; everyone is looking to meet new engineers!
- Training sessions for new volunteers. These will focus on expectations for volunteers. More detailed training is available on our section website.

- A guest speaker. Details will be announced, but it will be someone with broad appeal to our section membership.
- And last, but not least: Free food!

I hope you will consider attending the meeting and learning how you can become involved with Section activities. We hold face to face meetings quarterly, so if you miss this one, there will be opportunities in the future. For details or to RSVP, feel free to contact me at [dmindham –AT- ieee.org](mailto:dmindham-AT-ieee.org)

David Mindham: [dmindham -At- ieee.org](mailto:dmindham-At-ieee.org)

Officers - 2020

In the listings below you will find the positions and officer names of our elected leaders for the Section Executive committee, followed by our Affinity Groups, our Technical Society Chapters and finally our IEEE Student Branches.

Executive Committee (ExCom):	
Chair	David Mindham
Chair-Elect	
Secretary	Christopher Johnson
Secretary-Elect	Bhupinder Mavi
Asst Secretary	
V-Ch	Sharan Kalwani
V-Ch-Elect	
Treasurer	Michael Follan
Treasurer-Elect	Colleen Chmielewski
Asst Treasurer	
Section Adviser	Don Bramlett
Past-Ch	Kimball Williams
Standing Committees: *	
Affinity Groups: *	
Chapters: *	

Affinity Groups	
Consultants Network Affinity Group: (CN40035)	
Chair	Ian Hutt
V-Ch	Sharan Kalwani
Secretary	Charles Albrecht
Treasurer	Benjamin Doerr
Past-Ch	Sharan Kalwani
Life Member Affinity Group: (LIFE)	
Chair	Harpreet Singh
V-Ch	Bhupinder Mavi
Secretary	
Treasurer	
Past-Ch	
Women in Engineering Affinity Group: (WIE)	
Chair	Tia Twigg
V-Ch	
Secretary	
Webmaster	
Treasurer	Chaitali Naik
Past-Ch	Kimball Williams
Young Professionals Affinity Group: (YP)	
Chair	Ian Hutt
V-Ch	Colleen Chmielewski
Secretary	Chaitali Naik
Treasurer	Aparna Addada
Past-Ch	

Note: This is not the complete listing with the contact e-mail for the officers. To see the full listing, use the SEM Wavelengths website at:

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

Select 'About SEM' and drop down to the Organization Roster for the current officers through the end of 2019, or to the Draft 2020 Organization Roster for the officers who will take command in 2020.

If you notice places where you know someone's name should appear but, is missing or in error, please contact Kimball Williams – Chair of the Nominations & Appointments Committee with the proper information at: k.williams@ieee.org.

Chapters	
Chapter 01 (SP01) Signal Processing Soc, (CAS04) Circuits and System	
Chair	Robert Adams
V-Ch	
Director (SP Soc)	
Director (C&S Soc)	Kenji Aono
Director (IT Soc)	Jeffrey Dulzo
Secretary	Milad Moosavifar
Treasurer	
Past-Ch	Jeffrey Dulzo
Chapter 02 (VT06) Vehicular Technology Soc	
Chair	Mohamad Berri
V-Ch	Jennifer Dukarski
Secretary	
Meeting & Facility Organizer	Jennifer Dukarski
Treasurer	Eugene Saltzberg
Past-Ch	Lawrence Baczkowski
Chapter 03 (AES10) Aerospace and Electronic Systems Soc, and (COM)	
Chair	Patrick Seeling
V-Ch	
Director (AE Soc)	
Director (Com Soc)	
Secretary	
Treasurer	Jeffrey Dulzo
Past-Ch	Malcolm Lunn
Chapter 04 (AP03) AP03 Antennas and Propagation Soc, (ED15) Elec	
Chair	Rebecca Peterson
V-Ch	
Director (AP Soc)	Anthony Grbic
Director (ED Soc)	Fan-hsuan Meng
Director-Tech (MTT Soc)	Najme Ebrahimiseraji
Director (Photonics Soc)	Somin Eunice Lee
Secretary	Navid Barani Lonbani
Treasurer	Xiuzhang Cai
Past-Ch	Kimball Williams
Chapter 05 (C16) Computer Soc	
Chair	Subramanian Ganesan
V-Ch	Sharan Kalwani
Secretary	S Ramesh
Treasurer	Ashok Prajapati
Co-Treasurer	S Ramesh
Director: Admin & Member Development	Nizar Atholou
Director: Technical Activities	Sharan Kalwani
Director: Software Activities	Ashok Prajapati
Director: Auto relations Liaison	S Ramesh
Tech activities Co-ordinator:	Jesus Salvador
	Almanza Garcia
Student & Education Liaison	Carla Gerst
Industrial Liaison	S Ramesh
Webmaster	Sharan Kalwani
Past-Ch	Subramanian Ganesan
Chapter 06 (GRS29) Geosciences and Remote Sensing Soc	
Chair	Leland Pierce
V-Ch	Adib Nashashibi
Secretary	Mostafa Zaky
Treasurer	Michael Benson
Past-Ch	Adib Nashashibi
Chapter 07 (PE31) Power Engineering Soc, (IA34) Industrial Applicati	
Chair	Looja Tuladhar
V-Ch	Chaitali Naik
Director (Tech Activity)	Chaitali Naik
Director (Pwr Eng)	Looja Tuladhar
Director (Ind Appl)	Binaya Joshi
Secretary	Binaya Joshi
Treasurer	Chris Nelson
Past-Ch	David Mindham

Officers – 2020 – Continued:

Chapters Continued	
Chapter 08 EMC (EMC27) Electromagnetic Compatibility Soc	
Chair	Scott Lytle
V-Ch	Akio Fujimaki
Director(Prof Activity)	Akio Fujimaki
Director(Tech Activity)	Candace Suriano
Director(Awards)	James Woodyard
Director(Communications)	Scott Lytle
Director(Marketing)	Steve Tomba
Secretary	Steve Tomba
Treasurer	Matthew Fousse
Past-Ch	Dennis Barberi
Chapter 09 (IE13) Industrial Electronics Soc, (PEL35) Power Electronics Soc	
Chair	Sridhar Nalla
V-Ch	
Director(IndElect)	
Director(Pwr Elect)	
Secretary	
Treasurer	
Past-Ch	
Chapter 10 (TEM14) Technology and Engineering Management Soc	
Chair	Mark Robinson
V-Ch	Raymond Sasinowski
Secretary	David Werden
Treasurer	Kellee Christensen
Past-Ch	David Werden
Chapter 11 (EMB18) Engineering in Medicine and Biology Soc	
Chair	Maurice Snyder
V-Ch	
Secretary	Yan Yan
Treasurer	
Past-Ch	Maurice Snyder
Chapter 12 (CS23) Control Systems Soc	
Chair	
V-Ch	Khalid Rahman
Secretary	
Treasurer	
Past-Ch	Rajeev Verma
Chapter 13 (E25) Education Soc	
Chair	Sharan Kalwani
V-Ch	
Secretary	Nizar Alholou
Treasurer	
Past-Ch	Richard Johnston
Chapter 14 (RA24) Robotics And Automation Soc	
Chair	Grant Kruger
V-Ch	
Secretary	Jonathan Berent
Treasurer	Chan-Jin Chung
Past-Ch	ALI EYDGAHI
Chapter 15 (NPS05) Nuclear Plasma Sciences Society	
Chair	Nicholas Jordan
V-Ch	
Secretary	
Treasurer	
Past-Ch	
Chapter 16 (CIS11) Computational Intelligence Soc, (SMC28) Systems Soc	
Chair	Jeffrey Dulzo
V-Ch	
Director(CI Soc)	
Director(SMC Soc)	
Secretary	
Treasurer	
Past-Ch	Osman Ahmed
Chapter 17 (NANO42) Nanotechnology Council	
Chair	Randy Boone
V-Ch	
Secretary	Wen Li
Treasurer	Amar Basu
Past-Ch	Wen Li

Student Branch:	
University Of Detroit-Mercy: (STB00531)	
Chair	
V-Ch	
Secretary	
Treasurer	
Faculty Counselor	Michael Santora
Mentor	Jennifer Dukarski
Mentor	Don Bramlett
Michigan State University: (STB01111)	
Chair	
v-Ch	
Secretary	
Treasurer	
Graduate Advisor	Thassyo Pinto
Faculty Counselor	Premjeet Chahal
Mentor	Shiu Chan
Mentor	Philip Fanson
University Of Michigan-Ann Arbor: (STB01121)	
Chair	
V-Ch	
Secretary	
Treasurer	Kyle Bartley
Faculty Counselor	Laura Balzano
Mentor	Michael Anthony
Wayne State University: (STB02251)	
Chair	
V-Ch	
Treasurer	
Secretary	
ESFB Rep	
Student Advisor	
Corp Com Ch	
Web-Admin	
Seminar Coordinator	
Faculty Counselor	
Faculty Mentor	Weisong Shi
Mentor	
Lawrence Technological University: (STB03921)	
Chair	Naim Shandi
V-Ch	Carrieann Towne
Secretary	Amar Dabaja
Treasurer	Amar Dabaja
Faculty Counselor	Jaber Nabih
Mentor	Benjamin Sweet
Mentor	Don Price
Oakland University: (STB06741)	
Chair	Marwan Oro
Secretary	
V-Ch	Neven Nizar
Treasurer	Joshua Creech
Faculty Counselor	Amanpreet Kaur
Mentor	Neven Nizar
Mentor	Michelle Knight
Mentor	Sharan Kalwani
Mentor	Daniel Aloi
Mentor	OSAMAH RAWASHDEH
Eastern Michigan University: (STB11091)	
Chair	David Menard
Secretary	
V-Ch	
Treasurer	
Faculty Counselor	ALI EYDGAHI
Mentor	
University Of Michigan-Dearborn: (STB94911)	
Chair	Aaron Ustes
V-Ch	
Secretary	
Treasurer	David Liang
Webmaster	
Faculty Counselor	Stanley Baek
Mentor	
Mentor	Kimball Williams

Amateur Radio Classes

**January Classes by Hazel Park Amateur Radio Club**

We're pleased to announce NEW classes that will start in the second week of January. Check the ARRL website or contact:

Jerry Begel, W9NPI@comcast.net or [248-543-2284](tel:248-543-2284)

.....
TECHNICIAN: Every Thursday for 10 weeks, starting January 9, ending March 12.

FCC Exam at the last session.

Time: 7-9 PM Location: Southfield, MI Recreation Center (Basement)

Contact: W9NPI@comcast.net

GENERAL: Every Tuesday for 14 weeks, starting January 7 and ending April 21.

FCC Exam at the last session.

Time: 7-9 PM Location: Southfield, MI Recreation Center (Basement)

Contact: W9NPI@comcast.net

EXTRA: Every Tuesday for 14 weeks, starting January 7 and ending April 21.

FCC Exam at the last session.

Time: 6-9 PM Location: Hazel Park Schools Administration Building

Contact: W9NPI@comcast.net

Feedback

GIVE FEEDBACK OR SAY NOTHING?

Most of us grapple with whether or not we should give feedback when someone else does or says something frustrating.

Here are a few criteria to help you decide whether or not you should give feedback or say nothing:

1. Do you have a relationship with the person? Do you know each other well enough to share your opinion? Aka, have you earned the right?
2. Has the other person requested your opinion? Unsolicited feedback is not typically received well.
3. If the other person has not requested your opinion, does he appear open to hearing feedback?
4. Are you trying to make a difference for the other person or just make him look or feel bad?
5. Do you want to strengthen the relationship?

Before you give feedback, do something I call, 'check your motives at the door.' If your motives are pure – you want to strengthen the person or the relationship, and you have a good enough relationship that you've earned the right to speak up — then do it.

People are more open to feedback when they trust our motives. If we have a good relationship with the person and he knows we're speaking up to make a difference for him or for the relationship, you'll be able to say way more than if your motives are questionable – aka you want to be right.

Shari Harley

About [Shari Harley](#)

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.

RoboFest 2019

Robofest 2019 Report

IEEE Southeast Michigan Section and Region 4 PACE sponsored Robofest 2019 inspired & recruited a total of 2,489 potential future IEEE members in 829 teams. They were from 14 countries in addition to 10 US States (California, Florida, Hawaii, Illinois, Indiana, Michigan, Minnesota, Nigeria, Ohio, Oregon, and Washington). IEEE members served as volunteers for multiple events include: Josh Siegel, Wuming Jing, Grant Kruger, Jeffery V. Mosley, Benancio Gonzalez, Naim Shandi, Austin Wexler, Thassyo Pinto, Benjamin (“Ben”) Sweet, Matthew McAllister, Robert Neff, Douglas C. MacKenzie, CJ Chung, Sean Denny, Bill Collins, Russel Grieshop, Michael Okneski, and Donna Howard.



Potential future IEEE members - World Robofest Contestants at LTU, May 18, 2019



Maria Vaz, LTU Vice President & Provost and Robert Neff, IEEE SEM Chair

Maria Vaz, LTU Vice President & Provost and Douglas C. MacKenzie, MOBIS Sr. Manager & IEEE Member



(Left to right) CJ Chung, Naim Shandi, Matthew McAllister, Benancio Gonzalez, Josh Siegel, Grant Kruger



(Left to right) Benancio Gonzalez, Naim Shandi, Thassyo Pinto, Matthew McAllister, Ben Sweet

(Left to right) A prospective IEEE member and Thassyo Pinto, IEEE member



(Left to right) CJ Chung, Naim Shandi, Matthew McAllister, Benancio Gonzalez, Jeffery V. Mosley, Josh Siegel, Grant Kruger



A sample of IEEE sponsored personalized medal awarded to every registered contestant

FIRST Robotics Scholarship@CMU

From our colleagues in Northern Michigan Section comes this very useful news, worth sharing with all of our potential future engineers in the SE Michigan section! We encourage all readers to share similar news for the benefit of our IEEE SE Michigan Section readers!

Sharan Kalwani,
Editor, Wavelengths
 2017 ~ 2020

CENTRAL MICHIGAN UNIVERSITY
FIRST® Robotics Scholarship

Up to \$10,000
over four years
 (\$2,500 per year)

DEADLINE EXTENSION
 Apply by **February 15, 2020**
go.cmich.edu/FIRSTscholarship

10 scholarships will be awarded to qualifying students in the Fall 2020 incoming class who have competed in a FIRST® Robotics Competition and enroll in any program within CMU's School of Engineering & Technology.

MAJORS INCLUDE:

- » Computer engineering
- » Electrical engineering
- » Environmental engineering
- » Industrial engineering technology
- » Mechanical engineering
- » Mechanical engineering technology
- » Product design engineering technology

CMU, an AA/E/O institution, strongly and actively strives to increase diversity and provide equal opportunity for all individuals, irrespective of gender identity or sexual orientation and including but not limited to minorities, females, veterans and individuals with disabilities. UConn# 3814468 (12/19) 500

Scholarship: In the times of rising college-tuition, they are important more than ever before. The Central Michigan University School of Engineering and Technology is proud to announce multiple \$10,000 scholarships. Please help spread the word and encourage all you know to apply for this prestigious scholarship.

A total of 10 scholarships will be awarded to qualifying students in the Fall 2020 incoming class who have competed in a FIRST® Robotics Competition and enroll in any program within CMU's School of Engineering & Technology. The Majors include: » Computer engineering, Electrical engineering, Environmental engineering, Industrial engineering technology, Mechanical engineering, Mechanical engineering technology and Product Design engineering technology.

More details at: <http://go.cmich.edu/firstscholarship>

Kumar Yelamarthi
 Director, School of Engineering and Technology, CMU
 Email: kumar.yelamarthi@cmich.edu

Promoting student and faculty excellence

Darrel Chong Award



Recognizes and certifies

Michigan State University

with the Darrel Chong Student Activity Award 2019 - Bronze for the
activity

“IEEE RAS Humanitarian Technology Day”

25th October 2019



José Manuel Fonseca de Moura

José M. F. Moura
IEEE President 2019

Sharan Award



IEEE
computer
society

South Eastern Michigan Chapter

November 19, 2019

We would like to share with you all – a great news that one of our active Section members, recently received a major IEEE award.

Mr. Sharan Kalwani, has been selected as the recipient of the 2018 MGA Achievement Award.

This is only 1 of 4 awarded each year for major contributions towards objectives of the IEEE. Indeed, it is also one of the most prestigious IEEE awards, as it recognizes the member most responsible for an extraordinary amount of contributions towards local activities.

Although awarded in 2018, it was not until recently at ESW 2019 that we were able to give him this award for all his achievements, not only in 2018 but which continued unabated in 2019 as well. We hope this will inspire others to also step forward and engage in various endeavors (like in this section for example!).

I have enclosed a few pictures of his award, a letter of commendation from the IEEE MGA Vice President Martin J Bastiaans, and the award event from ESW 2019. Please join me in congratulating Sharan.

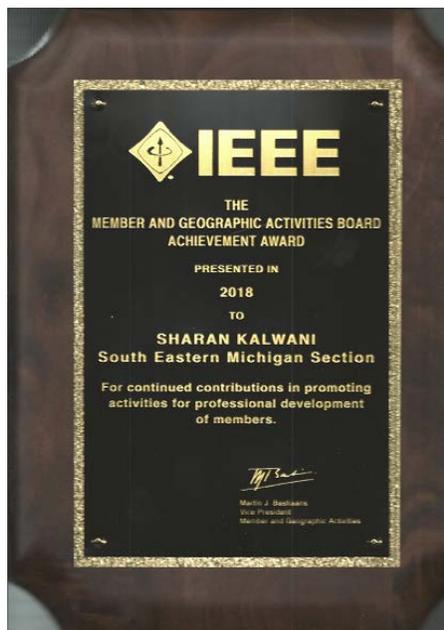
Subra Ganesan

Dr. Subra Ganesan

Chapter V chair, IEEE SEM

ganesan@oakland.edu

Phone: 248 635 5890





8 February 2019

Dear Professor Subra Ganesan:

As requested, enclosed please find the plaque to be awarded to Sharan Kalwani, 2018 MGA Achievement Award recipient. Please present this award to Mr. Kalwani at an appropriate occasion. We encourage you to take photos of the presentation and email them to mga-awards@ieee.org, so that we may use them in our efforts to increase publicity and solicit more nominations.

On behalf of the entire IEEE Member and Geographic Activities Board, please convey our congratulations to Sharan Kalwani for having achieved this honor.

Sincerely,

A handwritten signature in black ink, appearing to read 'M J Bastiaans', written over a horizontal line.

Martin J. Bastiaans
2018 Vice President, IEEE Member and Geographic Activities
Chair, IEEE Member and Geographic Activities Board

TEMSCON 2020



Call for Papers

2020 International Conference
IEEE Technology and Engineering Management Society (TEMS)



TEMSCON 2020
The Embassy Suites by Hilton Detroit
Livonia Novi, Michigan (USA)
19525 Victor Parkway
Livonia, MI 48152
2020.temskon.org



June 3-6, 2020

Managing the Development of Connected Systems

The greater Detroit area has a long history as a hub for engineering and manufacturing automobiles. With the ever-accelerating progress on innovation and a push for market-ready automated, connected and electrified vehicles, Detroit remains the heart of the automotive industry. Southeast Michigan has also diversified its economic base in emerging technology areas including information technology, health care and biomedical, power and energy, advanced manufacturing, and higher education and research. We invite contributions from engineering leaders, researchers, educators, innovators, entrepreneurs, and students to help advance the understanding and the state of practice related to successful technology and engineering management. Contributions may be research or practical. Research papers may be conceptual, empirical, or theoretical, but they must discuss how the results could be applied in practice. Practice-focused papers may consist of case studies, description of best practices, or application experiences, but they should also shed light on new challenges and unresolved future issues, which could be addressed by the research community. We thus provide a venue where different points of view interact to yield new understanding and ideas on leading innovation as well as the future of technology and engineering management.

- Paper Submissions Due: 29 Feb 2020
- Notification of Acceptance: 28 Mar 2020
- Revisions Due (For Papers Requiring Revisions): 18 Apr 2020
- Final Papers Due: 2 May 2020

Selected papers will be invited to submit to the *IEEE Engineering Management Review* or *IEEE Transactions on Engineering Management*.

Topic areas include, but are not limited to, the following:

- *Innovating in rapidly changing markets and sectors, e.g., biotech and health systems, manufacturing, etc.*
- *Leading and managing innovation and transformation*
- *Adopting new technologies: challenges and risk mitigation*
- *Management of software versions and their interoperability among different vehicle ages and makers*
- *Understanding trends and applicability of new technologies*
- *Leveraging enterprise data, e.g., successful use of AI, analytics, blockchain, IoT*
- *Leading societal change, e.g., mobility, intelligent transportation, health care, public policy*
- *Enhancing industry, university, and/or government collaboration*
- *Developing personal skills for leading innovation initiatives*

In addition, we invite proposals for half-day workshops, including special sessions from other technical societies, related to the conference theme.

Industry perspectives will be featured throughout the meeting via panels and plenary talks.

Conference attendees will have the opportunity to visit nearby Detroit area landmarks including the Henry Ford Museum, Greenfield Village, Detroit Institute of Arts, Motown Museum, and Automotive Hall of Fame.

Organizing Committee:

Conference Chair – Liang Downey, lxdowney@ieee.org

Program Co-Chairs – Jason Hui, jason.k.hui@ieee.org, Tugrul Daim, t2td@pdx.edu

Publications Chair – Ed Perkins, e.perkins@ieee.org

TEMSCON 2020 Planning Partnership Gathering

The Technology Engineering Management Society (TEMS) Executive Committee held their quarterly board meeting at the Embassy Suites Livonia Michigan on Saturday November 16, 2019. One of the topics reviewed on the board's agenda was the TEMSCON 2020 conference which be held in southeastern Michigan June 3rd thru June 6th, 2020 (described further below and at <https://temscon.org/>).

TEMSCON 2020 Conference Chair Liang Downey along with TEMS EXCOM members, Organization committee members and conference partners met face to face for the first time to discuss the impending spring conference. Partners included representatives from local companies, Universities, and government. Mark Robinson (TEMS S.E. Michigan vice chair) and Kimball Williams (S.E. Michigan IEEE EXCOM) and I represented S.E. Mich. IEEE & local TEMS Chapter. The gathering was held at the Embassy Suites Livonia which is the same venue TEMSCON2020 will be held at. The picture shows some of the participants at partnership event.



Going L to R:

- John Bukowicz, President & CEO, Corporate Consulting Assoc. Board Member - LIASE Group IoT & Automotive Executive Search
- Luke Maki, Boeing Corporation, IEEE TEMS Nomination Committee Chair, TEMS Past resident
- Dilip Kotak, IEEE TEMS Treasure
- Liang Downey, DTE Energy, IEEE TEMS Vice President of Conferences 2020
- Gus Gaynor, IEEE TEMS Vice President of Publications 2020, Retired from 3M
- Joanne Wong, IEEE TEMS Secretary
- Simon Ng, Associate Dean, School of Engineering, Wayne State University
- Ben Sweet, Embedded Mngr. Engineer, Denso

S.E. Michigan TEMS Society Chapter 10 Challenge:

I had the privilege of meeting and talking with some of the TEMS Society EXCOM members during the event and the reoccurring topic was the support by the local chapter for TEMSCON2020. I strongly believe that for our chapter members to grow and stay well-informed with changes in managing people and technology you need to take an active role & support this event. You will have the opportunity to network, hear great paper presentations, and speakers. Your role in support of this event can be limited to a small block of time helping the day to day running of the event. I encourage you to

contact Mark Robinson or myself to help with the conference. Our contact Information can be found in an issue of Wavelengths.

Ray Sasinowski

TEMSCON 2020

TEMSCON 2020 will bring together 200+ engineering leaders, researchers, educators, innovators, entrepreneurs, and students to gather at the conference to help advance the understanding and the state of practice related to successful technology and engineering management from around the world and focuses on the art and science of management and leadership driving innovation and change.

TEMSCON 2020's theme is *Managing the Development of Connected Systems*. The greater Detroit area has a long history as a hub for engineering and manufacturing automobiles. With the ever-accelerating progress on innovation and a push for market-ready automated, connected and electrified vehicles, Detroit remains the heart of the automotive industry. Southeast Michigan has also diversified its economic base in emerging technology areas including information technology, health care and biomedical, power and energy, advanced manufacturing, and higher education and research.

The conference provides a venue where different points of view interact to yield new understanding and ideas on leading innovation as well as the future of technology and engineering management.

About [IEEE TEMS](#)

TEMSCON 2020 topics include

- Innovating in rapidly changing markets (e.g. biotech and health care, manufacturing)
- Leading and managing innovation and transformation
- Adopting new technologies: challenges and risk mitigation
- Management of in-vehicle software versions and interoperability among different vehicle ages & brands
- Understanding trends and applicability of new technologies
- Leveraging enterprise data, e.g., successful use of AI, analytics, blockchain, IoT
- Leading societal change, e.g., mobility, intelligent transportation, health care, public policy
- Enhancing industry, university, and/or government collaboration
- Developing personal skills for leading innovation initiatives

Call for papers TEMSCON 2020!!

On the TEMSCON 2020 website you find information on paper topics and submission dates.

- Paper Submissions Due: 29 Feb 2020
- Notification of Acceptance: 28 Mar 2020
- Revisions Due (For Papers Requiring Revisions): 18 Apr 2020
- Final Papers Due: 2 May 2020

<http://www.ieee-tems.org/>

Member Elevation FYI

As a follow up to the recently held Senior Elevation event, here is a timely article which discusses the elevation 'round up'. This is done in anticipation of the potential number of inquiries on the status of those applications. Here is the general outline of what you can do, and how you can check on this (online):

1. Login in to your IEEE.org portal
2. Locate the Senior member area.
3. Scroll down till you locate the "Track Status of Application and References"
4. Review Senior Member Status Report; and finally
5. Notification of Result

Reproduced here are relevant sections for your perusal.

Track status of application and references

Once your application has been received and is in the Submitted and Pending Referrals or Submitted and Pending Review status, your name will appear on the Senior Member Status Report. Please allow about five to seven business days after submission for this to occur, as reports are not updated automatically upon submission. You can also sign in to your application at any time and view the status. (Applications in "Draft" are not posted to the web.)

After your application has reached the **Complete** stage (applications in Word or PDF) or Submitted and Pending Review, it will be scheduled for review at the next available Senior Member Elevation Review Panel. This must occur at least ten days prior to the Review Panel meeting to allow ample time for processing. This year the Review Panel meets on Feb 16th, 2020.

Notification of results

You will receive a congratulatory letter and email if you have been approved or an email notification as to whether you have been deferred or denied.

About two weeks following a review panel meeting, an update report with the names of the newly elevated Senior members is published on the web as well as sent electronically to individual subscribers and group mailing lists comprised of Section chairs and newsletter editors.

Approved applicants will:

- Have their name posted in the newly elevated Senior members report after all applicants have been notified
- Receive a formal letter confirming grade elevation after approval
- Receive a wood-and-bronze commemorative plaque and a voucher for up to US\$25, which can be used to join a new IEEE Society of your choice
- Request for employer to be notified using the employer notification form

Denied or Deferred applicants will normally be asked to submit additional documentation in support of their application. This generally means the committee was unable to ascertain whether all the requirements have been met. Failure to document relevant dates of positions or details of how your experience is to be considered significant are frequent reasons that applications are deferred. The meaning of job titles varies from company to company and may not be sufficient to confirm significant performance. For example, if you were a Team Leader, describe the size and scope of the projects worked on. Once further documentation has been submitted, the application will be sent for reconsideration at the next available A&A Review Panel.

Applicants who have resubmitted information and are still not elevated after multiple panel reviews have the right to an appeal of the decision through the Appeal Committee. The Appeal Committee is comprised of the Vice President of

Member and Geographic Activities, the Vice President of Technical Activities, and the Vice President of Educational Activities. Appeals are not automatic and must be requested by the applicant.

The Appeal Committee shall review documentation submitted to the Review Panel and make a determination to uphold or overturn the Panel's decision. The applicant is allowed, but not required, to send along further documentation in support of his/her case. For example, if the Review Panel determined that the applicant had only nine years of professional experience, it may be helpful to provide a calculation of how you meet the requirement. Overlapping work and education experience will not be counted in both categories.

If that is not sufficient for any inquiries, we suggest you can phone the IEEE

Contact Center phone number is (1 800 678 4333) for assistance.

Sharan Kalwani,
Chair, Membership Development Committee
Wavelengths
2017 ~ 2020

Receiving Wavelengths?

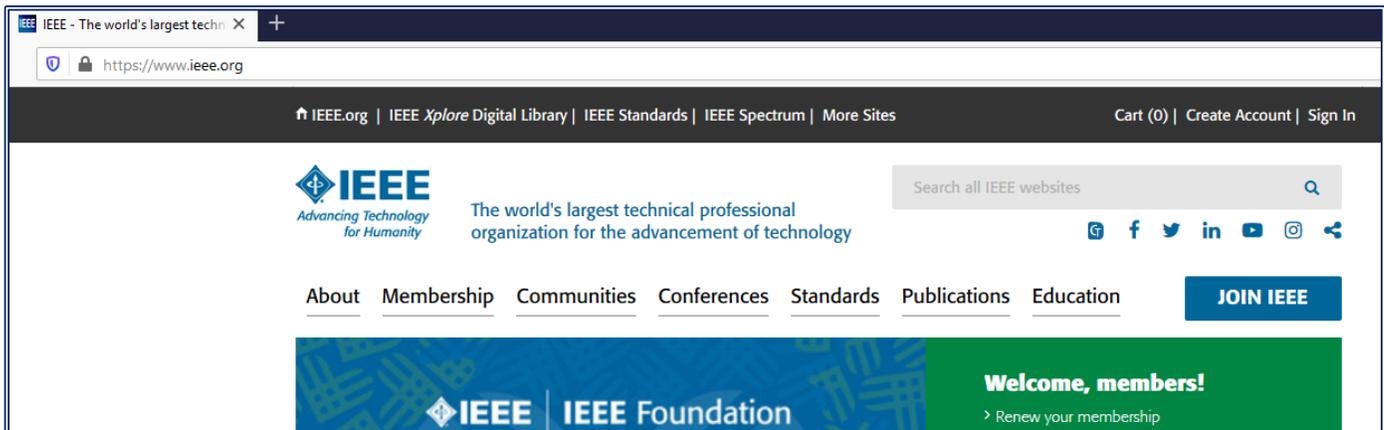
How to receive Wavelengths - our local IEEE Section newsletter?

Recently it has come to our attention – that several of you are not receiving our once a month newsletter – affectionately known as Wavelengths. Some initial probing uncovered that many IEEE members have perhaps (unknowingly) not enabled the **opt-in flag** on their IEEE.org profiles! Well in order to ensure that the monthly newsletter actually shows up, we are sharing the following steps with our membership.

The fix is quite easy, allow us to illustrate.

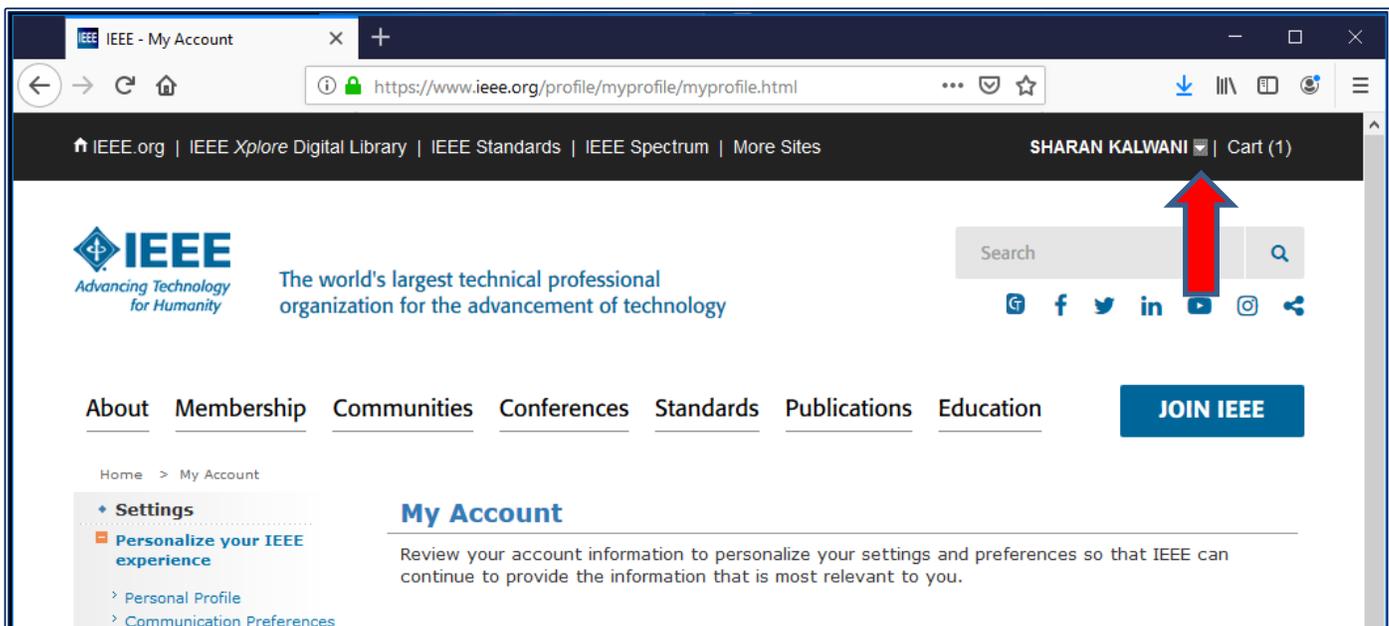
a) Step One - Login

Login in to your IEEE.org profile. It should look something like this:



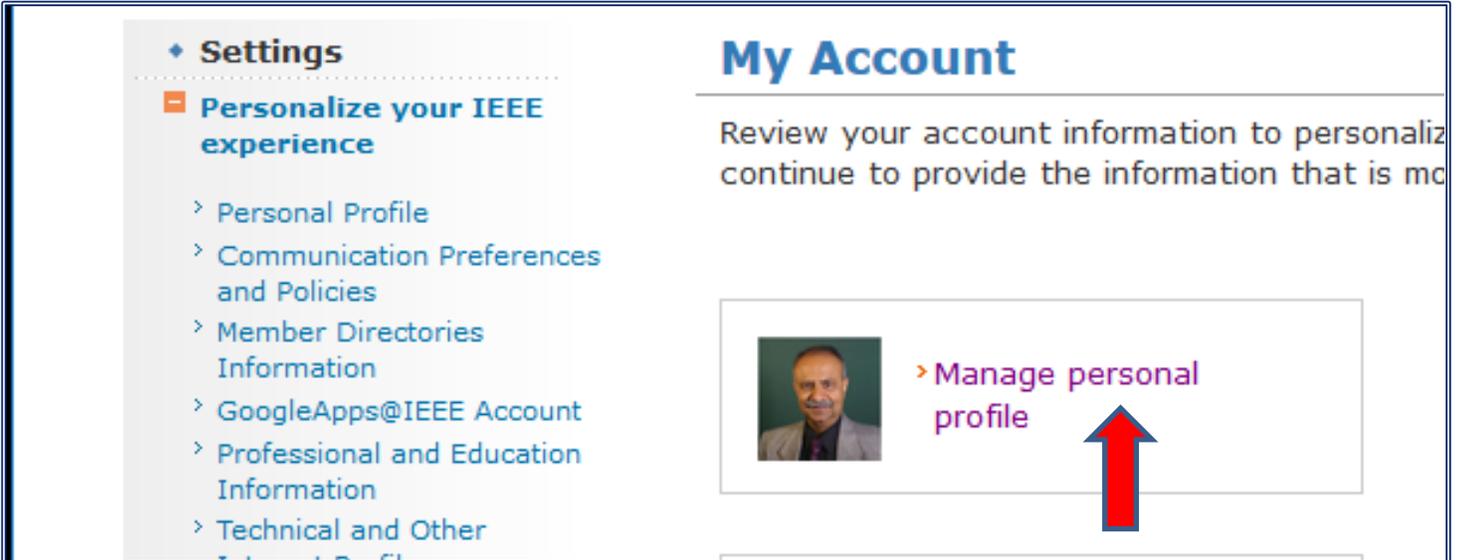
b) Step Two

Go to your Account Profile



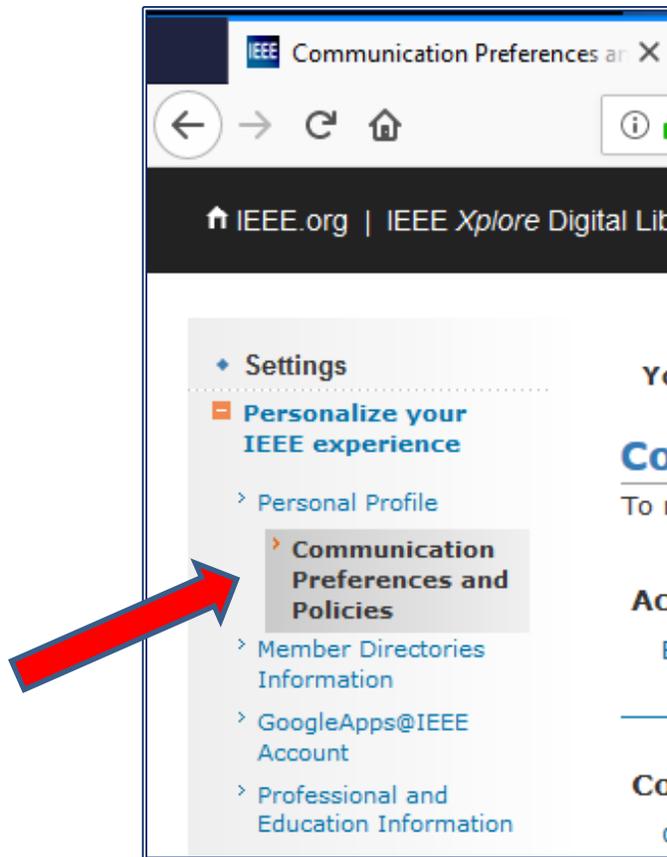
c) Step Three

Now click on the area which states: "Manage personal profile"



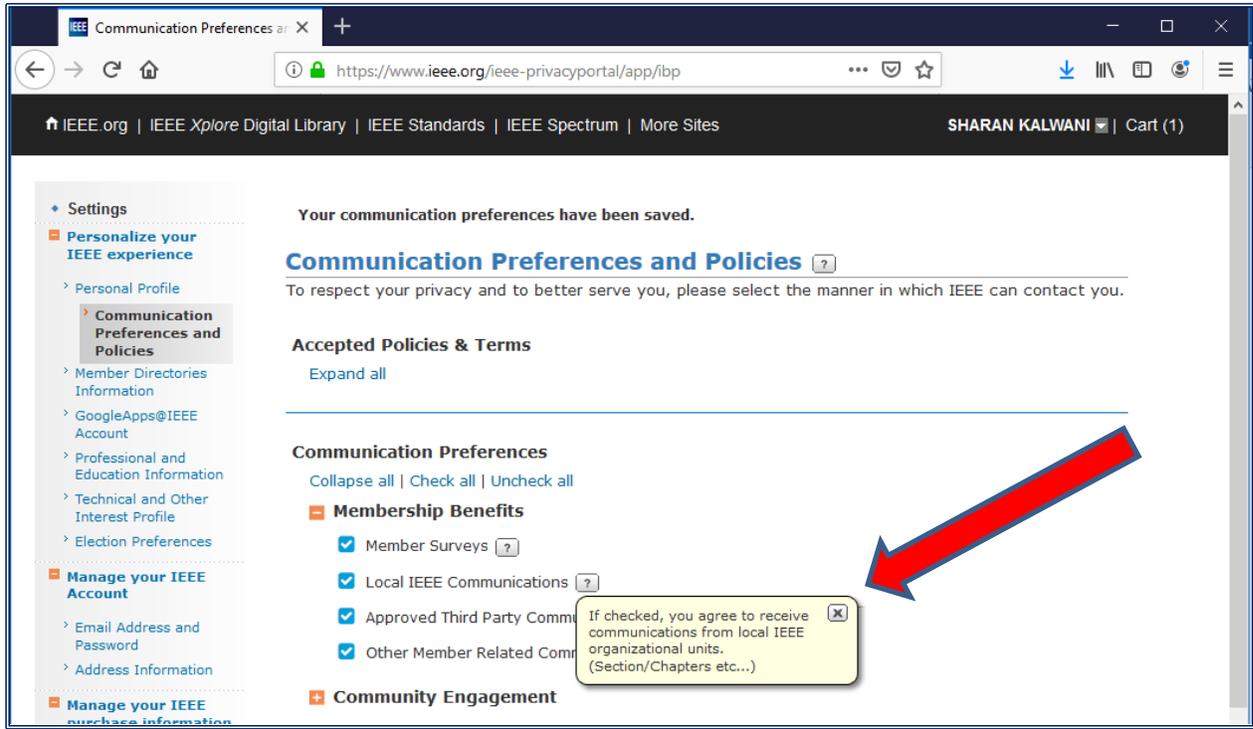
d) Step Four

On the left hand side of the screen, you will find: "Communications Preferences...", click there



e) Step Five

Enable “Local IEEE Communications” by ensuring that the box is selected!



f) Step Six: Save this preference!

The most important step of all.....located at the bottom of your screen



Curated & Formatted By

**Sharan Kalwani,
Contributing to IEEE SE Michigan & Wavelengths
2017-2018-2019-2020**

ZF Employment Ad



WHAT'S NEXT?

JOIN ZF

WORK AT THE FOREFRONT OF
AUTOMOTIVE INNOVATION WITH ZF,
ONE OF THE WORLD'S LEADING
AUTOMOTIVE SUPPLIERS.

[ZF.COM/CAREERS](https://www.zf.com/careers)

Future City 2020**IEEE-SEM SECTION SPECIAL AWARD JUDGES NEEDED FOR JANUARY 2020 FUTURE CITY COMPETITION**

by Don C. Bramlett, PE, LSMIEEE, FESD, FMSPE –
IEEE-SEM Section Advisor

This is the twentieth year that IEEE-SEM will provide a dedicated team of judges and a special professional organization award for the project having the most innovative application of electro-technology in the design of a city in the future. Judging for the 2020 Michigan Regional Future City Competition will be on Tuesday, January 28, 2020 at the Suburban Collection Showplace in Novi, just off I-96 on Grand River between Novi Road and Beck Road. Orientation and breakfast for judges will start at 7:30 am. Judging will be from 9:00 AM to 11:00 AM, followed by lunch. A complimentary continental breakfast and lunch are provided that day for the judges. This pleasurable and fulfilling task only takes half a day.

The theme in 2020 for the Future City Competition is “Clean Water: Tap into Tomorrow”. The student teams will design a water resilient city prepared to address a wide range of risks including drought, flooding, population change, natural and manmade disasters and economic recession. The team’s challenge is to choose

a threat to the city’s water supply and design a resilient system to maintain a reliable supply of clean water.

This is one of the premier pre-university programs for energized middle school aged students. Please volunteer to be among those to comprise the team of IEEE-SEM Section special award judges. I encourage anyone who has an interest in the science and math education of our youth or an interest in pre-university education programs to consider being a judge at the Michigan Regional Future City Competition. IEEE Student Branch members as well as regular IEEE members have found this to be a fulfilling experience in past years. As a judge myself in previous years, I have found the experience of talking with the students, finding out their interests and observing their projects/presentations to be very rewarding. So come out and spend the morning with us as we meet with some of the potential engineers, scientists and city planners of the future.

If interested in more information concerning being a member of the team of judges for the IEEE-SEM professional award at the Michigan Regional Future City Competition, contact Don Bramlett at cell (313) 608-6223, or at home at (734) 591-1452 or by email at d.bramlett@ieee.org.

Construction Bee

Active Attenuator Construction Bee

Stan Briggs – K8SB, will be conducting a Construction Bee to satisfy the many requests to build his **universal active attenuator**. (Photo at right.)

The attenuator is a powerful tool for use in radio direction finding and amateur radio 'Fox Hunts' and will work with any radio receiver.

Date: Saturday February 1, 2020

Time: 9:00 am to noon

Location: Trenton Faith United Method Church, 2530 Charlton Rd, Trenton, MI 48183

All parts and components to build the attenuator, including the enclosure, will be provided ready for attendees to solder and assemble their own units. Each unit will be tested / demonstrated to verify correct operation at the conclusion of the program.



Note: Attendees must bring their own soldering equipment

(Soldering Iron—15 watts, solder, needle nose pliers, etc.)

Registration / Order is required by **January 15, 2020**

Advance registration is required via the Motor City Radio Club website at:

Or, use: <http://www.w8mrm.net/event-3603333>

Or the QR Code at the right.

Fee: \$25.00 in advance to Motor City Radio Club via the club website (above).

Or... \$28.00 in cash, at the door.

There is no charge for attending the construction bee. The fee will pay for components and parts only.



bre.is/vxY2pDks

attenuator



Stan Briggs, K8SB, was first licensed in 1953 as WN8MPD and W8MPD. Stan was active in the Kalamazoo Amateur Radio Club while attending Western Michigan University. He joined the Motor City Radio Club after obtaining a Physics teaching position in Wyandotte, MI in 1958. Stan taught Electronics at Henry Ford Community College in Dearborn, MI starting in 1973 and was the trustee of the college club station K8EEH until his retirement in 1999. Stan consults in technical training in automotive instrumentation and testing.

Stan held the ARRL leadership positions as Emergency Coordinator for Wayne County and the Section Communications Manager for one term in 1978-79. K8SB operates on all bands and holds down a regular net control slots on the Michigan QMN CW net. He operates QRP on a regular basic and still enjoys Field Day. Stan's XYL is WB8AFO, Oldest daughter is WB8WGP, 2nd oldest daughter is KB2EHU and his son holds his old call; W8MPD. He has been doing Radio Direction Finding since the mid-1950s.

Section Matters**Joint Chapter Meetings: A Painless Way to Keep Current**

Engineering, as are most disciplines in the world, is evolving. Electrical engineering is evolving very rapidly. How many of today's EEs know the function of a suppressor grid or the task of a 6SN7? Software was the domain of mathematicians and the occasional scientist. Solid state was the domain of physicists and chemists. The challenge for today's engineer is to stay apace with rapid technological advancements.

IEEE has Sections that focus on EEs staying current in their field and exploring other areas through a variety of ways, including conferences, meetings and courses. IEEE SEM has all of these available. Since there is a finite amount of time to attend meetings, conferences and take courses, the challenge is to become more efficient in staying current and expanding one's networks of contacts and interests. Holding joint meetings with other Chapters is an easy solution. Joint Chapter meetings lighten the administrative burden while reducing the cost for each Chapter. A joint meeting can allow exploration of an area that is a complimentary field of interest, or is one you always wanted to know about. What better way to do this than by having a joint meeting?

Chapter officers should contact one (or more) of their fellow Chapter officers to explore scheduling a joint meeting. Chapter members should let their officers know which Chapters they would like to join with for a meeting. Joint meetings are easy, reduce administrative burden and expenses, and can even be fun. Joint meetings are a painless way to expand everyone's horizon.

Joe Giachino

Section Focus

The IEEE SEM Section Officers have reaffirmed the Mission and Goals of the section with the guidance of the Region 4 leadership. The Mission and Goals conform to those of IEEE worldwide.

You have probably seen the Mission and Goals before. However, it is important to keep these clearly in mind and remind ourselves often that this is what we are about and what we are trying to accomplish.

Section Mission

Inspire – Enable – Empower and Engage Members of IEEE at the local level.

For the purpose of:

- Fulfilling the mission of IEEE to foster technological innovation and excellence for the benefit of humanity,
- Enhancing the members' growth and development throughout their life cycle, and
- Providing a professional home,

Section Goals

- Increase member engagement,
- Improve relationships with and among members,
- Increase operational efficiency and effectiveness, within the section and its interfaces,
- Enhance collaboration – serve as the local face of IEEE to the community,
- Increase membership, and
- Ensure the collection of appropriate information necessary to assist the IEEE to become a data driven organization.

It is now the task of the section leadership to guide and coach all section officers and elements to focus their activities on achieving those goals

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:

Young Professionals:

Women in Engineering:

Chapter: 01 (SP01) Signal Processing Society,
(CAS04) Circuits and Systems Society and
(IT12) Information Theory Society

Chapter: 02 (VT06) Vehicular Technology Society

Chapter: 03 (AES10) Aerospace and Electronic Systems Society and
(COM19) Communications Society

Chapter: 04 "Trident" (AP03) Antennas and Propagation Society,
(ED15) Electron Devices Society,
(MTT17) Microwave Theory and Techniques Society,

Chapter: 05 "Computer" (C16) Computer Society

Chapter: 06 (GRS29) Geosciences and Remote Sensing Society

Chapter: 07 (PE31) Power Engineering Society,
(IA34) Industrial Applications Society

Chapter: 08 "EMC" (EMC27) Electromagnetic Compatibility Society

Chapter: 09 (IE13) Industrial Electronics Society,
(PEL35) Power Electronics Society

Chapter: 10 (TEM14) Technology and Engineering Management Society

Chapter: 11 (EMB18) Engineering in Medicine & Biology

Chapter: 12 (CS23) Control Systems Society

Chapter: 13 (E25) Education Society

Chapter: 14 (RA24) Robotics And Automation Society

Chapter: 15 (NPS05) Nuclear Plasma Sciences Society

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

Chapter: 17 (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)

Curated & Formatted By

Sharan Kalwani,
Wavelengths,
2017 ~ 2020

Non-IEEE 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 changing to its new home, kindly make a note of it! The new home is located at <http://r4.ieee.org/sem/>.** The old links will continue to work for some time, but will be changing permanently in the near future.

SEM e-Wavelengths:

www.e-wavelengths.org

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 Web Calendar:

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

Select "SEM Calendar" button in the top row of the website.

SEM Web Meetings:

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

Select "SEM Meeting List" button in the left-hand column.

vTools Meetings:

<http://sites.ieee.org/vtools/>

Select "Schedule a Meeting" button in the left-hand column of buttons.

Other IEEE Local Meetings:

<http://www.e-wavelengths.org/>

Other Happenings

Here are some of the non-IEEE events 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.

Send details to: wavelengths@ieee-sem.org

Michigan Institute for Plasma Science and Engineering: Seminars for the 2018-2019 academic year: <http://mipse.umich.edu/seminars.php>

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

Model Rocketry
<http://team1.org/>

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
<http://www.therobotgarage.com/about-us.html>

Science Fiction Conventions
<https://2019.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 arrangement of communications links designed to provide inter-unit coordination and collaboration.

The SEM Executive Committee meets in a teleconference each month on either the first Wednesday or first Thursday at noon. 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 Eric George, the section secretary at: eric.george.us@ieee.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.

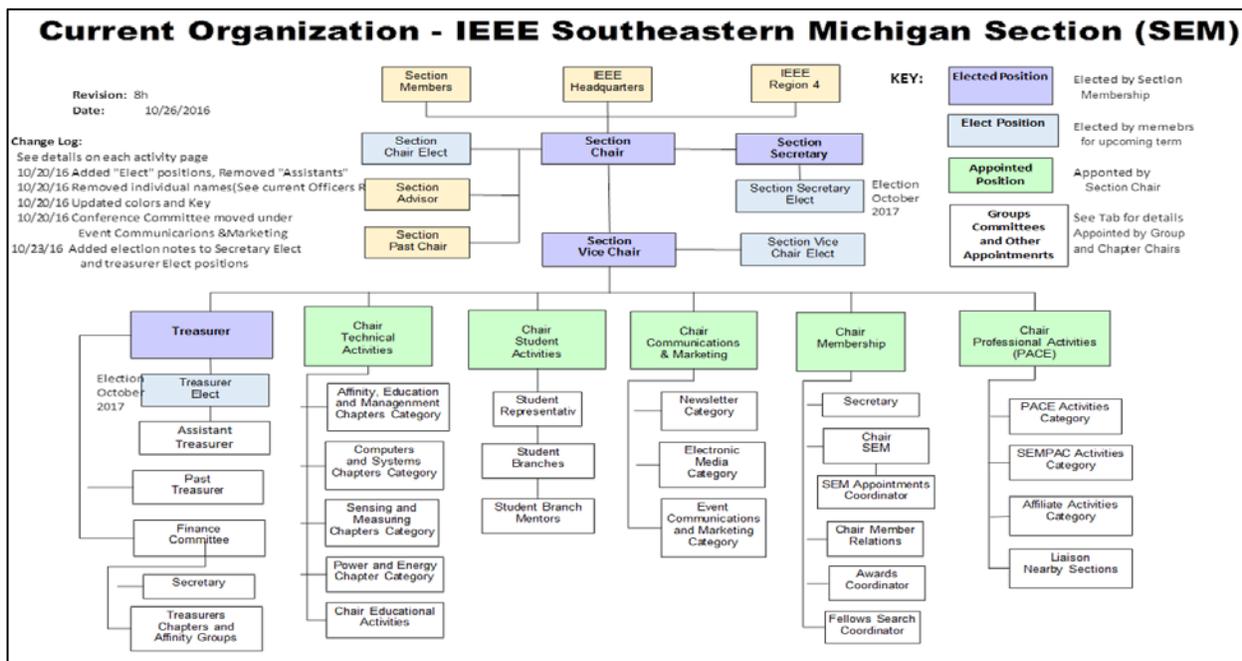
However, members of the section may have multiple technical interests and would like to have meeting information of other chapters. In order to communicate the meeting dates of all the chapters, affinity groups etc., to our members to facilitate their attendance, leaders of the groups are requested to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

Eric George - SEM 2019 Asst. Secretary

Download the complete SEM Organization Chart, in PDF format, from our Website at: <http://r4.ieee.org/sem/> Click on “About SEM” Tab and “Current Officers” (*NOTE: this is now password protected*)



ExCom Meeting Schedule

Below is the 2020 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. Information on each Face-to-Face (in-person) Meeting will be sent out once the venue is confirmed.

Please mark your calendars for the 2020 meetings. Or, link your personal calendar to the SEM Web calendar.

Section Administrative Committee (ExCom) Meeting Schedule for 2020:

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**.

FACE TO FACE, Wednesday, Jan 22nd, [New Officers Meet and Greet]

Register at: <https://events.vtools.ieee.org/m/216751>

Teleconference, Wednesday Feb 5

Teleconference, Thursday March 5

FACE TO FACE, Thursday, April 2

Teleconference, Wednesday May 6

Teleconference, Thursday June 4

FACE TO FACE, Wednesday July 8

Teleconference, Thursday August 6

Teleconference, Wednesday September 2

FACE TO FACE, Thursday October 7

Teleconference, Wednesday November 4

Teleconference, Thursday December 2

Chris Johson
SEM Secretary

Editor's 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

nilesh.dudhaia@ieee.org

k.williams@ieee.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.

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.

Heads Up

We are contemplating making the submissions of articles and events for the Wavelengths, a little easier and a little more inviting. Ideas are of course welcome and to this end, we are toying with setting up a little "newsletter portal". Stay tuned for some news on that end!

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 OR any one of the following:

sharan.kalwani@ieee.org

nilesh.dudhaia@ieee.org

k.williams@ieee.org

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	Future Cities Judges	Election Results	Resolutions	
Feb	Cons	2		MSU	Science Fair Judges	Officer's Welcome	Surviving Winter	Future Cities
Mar		3	13	EMU	Spring Conf. Flyer	Spring Conference	Spring Conference	Science Fair
Apr		4		U/M-D	National Engrs Wk.	Future Cities	Chapter Focus	ESD - GOLD
May	Life	5	14		Outstanding Eng Awd	Science Fair	Elections - Prep	New Fellows
Jun		6			IEEE-USA Apmts.	ESD Banquett	Leadership Skills	SEM Awards
Jul		7	15		Nominations Call	MD-Webcasts	Students Issues	Region 4
Aug	WIE	8			MGA - Apmts.	Tech-Webinars	Womens Issues	
Sep		9	16	LTU	Region 4 Apmts.	Engineers Day	Professional Skills	
Oct		10		U/M-AA	Fall Conf. Flyer		Fall Conference	
Nov	YP	11	17	WSU	ELECTIONS!		Humanitarian	
Dec		12		U/D-M	IEEE-Com Apmts.	Fall Conference	Happy Holidays	

Wavelengths Annual Publication Plan for Personal Profiles

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

SEM LinkedIn Page

(Select the “” button under the top row.)

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 “Current Officers.”

Section Officers

Section Chair

David Mindham

Section Secretary

Chris Johnson

Section Vice-Chair

Sharan Kalwani

Section Treasurer

Michael Folian

Standing Committees:

Section Adviser

Don Bramlett

Chair Communications & Marketing

Chair Educational Activities

Christopher Guirlanda

Chair Finance

Nevrus Kaja

Chair Membership Development

Sharan Kalwani

Chair Nominations & Appointments

Kimball Williams

Chair Professional Activities (PACE)

Sharan Kalwani

Chair Student Activities

Mel Chi

Student Representative

Chair Technical Activities

Jeffery Mosley



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



Advertising Rates

SEM Website & Newsletter
Advertising is coordinated through
our e-Wavelengths website at:

http://www.ieee-sem.org/ewavelengths/?page_id=181.

Please see the information listed on the site, and contact our web editor of e-Wavelengths, Nevrus Kaja, for further details.

Leadership Meetings

SEM Executive Committee Monthly Teleconferences:

- 1st Wednesday or Thursday of Each Month @ Noon
- 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 Face-to-Face Meetings:

- Once every Qtr. Find the location, and Registration at:
<https://meetings.vtools.ieee.org/main>

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:
• <https://meetings.vtools.ieee.org/main>