

Wavelengths



Spring Conference

Volume 59 – Issue 4

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2019 IEEE SEM Spring Conference

The Next Big Thing

May 2, 2019



U of M Dearborn
Fairlane Center North
19000 Hubbard Dr
Dearborn, Michigan



Register at: <https://events.vtools.ieee.org/m/191793>

Section Chair's Message



Monthly Wavelengths Newsletter:

This first issue of 2019 renews our commitment to publish this newsletter on a monthly basis. We apologize for the missing issues over the last couple of months.

Busy Spring:

There are many activities planned by your Chapters, Affinity Groups and our Section this spring. See the IEEE-SEM web site at <https://r4.ieee.org/sem>.

Inter-chapter activities and participation is highly encouraged. Often there are technology or general interest overlaps for our members.

Please feel free to invite non-IEEE members. It's a great recruiting opportunity and offers the ability to network with others outside of IEEE

Volunteering:

Just because it is Spring and Summer is approaching does not diminish the need for volunteers in our Section or in our Chapters and Affinity Groups. Much of the planning for Fall and Winter take place during the summer months.

To volunteer, please contact leaders in the areas of your interests, see roster at https://r4.ieee.org/sem/wp-content/uploads/sites/6/2019/03/Organization_Roster_2.8_2019b.pdf, or visit the Volunteer Portal at <https://r4.ieee.org/sem/about-sem/volunteer-portal/> and we will help you find a position of interest to you.

The benefits of volunteering include, but are not limited to, building your network, growing your social skills, building your leadership skills and mentoring others with your knowledge. I am positive you will find the experience interesting and rewarding.

Chair Elect:

David Mindham is our Chair Elect for the Chair's term beginning in 2020. He will be an occasional contributing author in this space in the upcoming months.

I look forward to hearing from you and seeing you at our events. As always, your ideas and suggestions are encouraged and welcome.

Robert Neff
IEEE SEM Section Chair
RLNeff1@gmail.com

Welcome to

Robert Neff
IEEE SEM Section Chair
RLNeff1@gmail.com

Election 2019

This March we sent an eNotice to all our Section members in advance of our 2019 elections. IEEE MGA requires us to notify all eligible voters 6 months before an election is planned, and this announcement was designed to satisfy that requirement.

This year's schedule is planned as follows:

Call for nominations:

September 9 - 30

Completion of Ballots:

October 15

Ballots out for vote:

October 17 - 31.

Compile and reconcile results:

November 15

Report results to the ExCom at the December ExCom meeting.

This year we will elect our 2020 set of officers for all Geo-units (Affinity Groups & Technical Chapters).

Those officers will include the Chair / Vice-Chair / Secretary / Treasurer.

Links to most Job Descriptions may be found on the Volunteer Portal at:

<https://r4.ieee.org/sem/about-sem/volunteer-portal/>.

Links to the Affinity Groups and to the Chapters may be found at:

<https://r4.ieee.org/sem/about-sem/sem-chapters/>

Note: Student Branches and HKN Chapters elect their officers on their individual schedules independently on their own.

Direct questions to:

K.williams@ieee.org

Chair: N&A Committee.

Officer Training

We encourage members who are considering running for an officer position to take advantage of the 'Training Materials' available on the IEEE SEM Website at:

<https://r4.ieee.org/sem/about-sem/training/>

FREE Voice over Power Point Training:

On-line virtual training modules are available through the SEM Website Training page at:

These videos will play directly and immediately from Google Chrome browser. They may not work well using Internet Explorer. Turn OFF your pop up blocker if you don't see it load or download. Blank Titles (Links) are in development.

(If you wish to rewind sections and play again, we suggest you download the module to your computer and play it using your systems 'media player'.)

Note: If you are beginning training, we recommend starting with Module # 46: Virtual Training Plan, and follow its recommendations for the training sequence.

Send Questions about these Training Modules to:

Virtual_Training_Q-A_Forum@googlegroups.com

The Q&A Forum – Google Group site – is listed at the bottom of this page.

'Other' Section Info:

The "About SEM" TAB on the SEM Webpage:

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

...contains links to lots of helpful and informative information about the Section, what it contains, and how it is organized and operated. Take a few moments to browse through some of the links listed below on the "About SEM" page.

- [SEM Organizational Chart](#)
- [Organization Roster](#)
- [Volunteer Portal](#)
- [Section Mission](#)
- [Email Notifications](#)
- [Membership](#)
- [Elections](#)
- [Officer Duties](#)
- [Region 4](#)
- [SEM Online Community](#)
- [vTools](#)
- [Training Material](#)
- [SEM Meetings List](#)
- [Old IEEE-SEM Website](#)
- [Student Activities](#)
- [IEEE Member Discounts](#)
- [Coming Events & Links](#)
- [West Michigan Section](#)
- [Windsor ON Section](#)
- [Expense Reporting](#)
- [RSS Feed](#)
- [Section History](#)
- [MGA Operations Manual](#)
- [Wavelengths Editor Forms](#)

Organization Roster:

Below we have extracted the officer titles and current office holder's names from the larger Organization Roster, which is available at:

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

Immediately below we show the current Executive Committee which composes the lead officers for the Section. In the pages to follow, we will detail the rest of the Section's 'Geo-units', (Affinity Groups and Technical Chapters) and then the Student Branches.

(We are still waiting for a formal organization of the Section's HKN (IEEE 'Honors') Chapters before we include them in the official Section Organization Roster.)

| Executive Committee: | Officers |
|----------------------|------------------|
| Chair | Robert Neff |
| Chair-Elect | David Mindham |
| Secretary | Eric George |
| Secretary-Elect | |
| Asst Secretary | |
| V-Ch | Nevrus Kaja |
| V-Ch-Elect | Sharan Kalwani |
| Treasurer | Michael Folian |
| Treasurer-Elect | |
| Asst Treasurer | |
| Section Adviser | Don Bramlett |
| Past-Ch | Kimball Williams |

Chair and Vice-Chair-‘Elect’ officers assume their final positions on January 1, 2020.

Secretary and Treasurer “Elect” positions will be elected this year and ‘train’ during 2020.

Assistant Secretary and assistant Treasurer positions are ‘appointed’ and currently vacant. (Shown in yellow)

The ‘Color Key’ below shows how to know when a current office is immediately available for appointment.

| Color Key: | |
|-----------------------------|--|
| Green - Request Replacement | |
| Yellow - Vacant | |
| Red - Missing | |

Vacant, Replacement, or Missing positions are ‘open’ and waiting for members to volunteer. For more information contact the Committee Chair, or see the Volunteer Portal for the Job Description.

On the following pages, we present the current status of our Affinity Groups, our Technical Chapters, then the overall Section Organization Chart, and finally we detail our Standing Committees.

We hope this presentation of the details of the organizational structure of the Section will help our members find a ‘home’ in an officer position at one of the levels shown.

Note: You must be an IEEE member, in good standing to hold any Section level office.

Affinity Groups:

Affinity Groups comprise members with common characteristics or focused interests that span across normal IEEE technical or professional areas.

Our current Affinity Groups and their officers are shown below:

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



Vacant positions are shown as titles without associated names, with the 'name' slot highlighted in yellow.

Note: You must be an IEEE member, in good standing and a member of the IEEE level Affinity Group to hold any Affinity Group office.

Links to the local SEM Affinity Groups and Technical Chapters may be found at:
<https://r4.ieee.org/sem/about-sem/sem-chapters/>
 That page also provides links to the primary Affinity or Society organizations that 'sponsors' each of the local entities.

Download the complete Organization Roster at:
<https://r4.ieee.org/sem/about-sem/>.

Voice over Power Point Officer Training:

Many **FREE** on-line virtual training modules are available through the SEM Website [Training page](#) at:

<http://r4.ieee.org/sem/about-sem/training/>

Technical Chapters

Chapters 01 - 05

Below, and on the next few pages, we list the officers of our Technical Chapters:

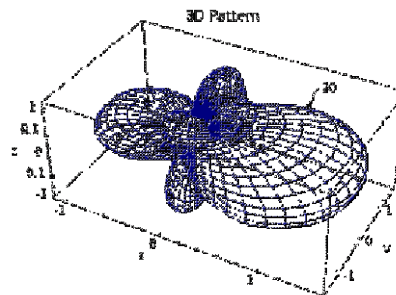
Vacant positions are shown as titles without associated names, with the 'name' slot highlighted in yellow.

| | |
|---|----------------------------------|
| Chapter 01 (SP01) Signal Processing Soc, (CAS04) Circuits and Systems Soc, and (IT12) Information Theory Soc | |
| <i>Chair</i> | Robert Adams |
| <i>V-Ch (SP Soc)</i> | |
| <i>V-Ch (C&S Soc)</i> | Kenji Aono |
| <i>V-Ch (IT Soc)</i> | Jeffrey Dulzo |
| <i>Secretary</i> | |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | Jeffrey Dulzo |
| Chapter 02 (VT06) Vehicular Technology Soc | |
| <i>Chair</i> | Jennifer Dukarski |
| <i>V-Ch</i> | Lawrence Baczkowski |
| <i>Secretary</i> | Jonathan Brouker |
| <i>Meeting & Facility Organizer</i> | Jennifer Dukarski |
| <i>Treasurer</i> | Eugene Saltzberg |
| <i>Past-Ch</i> | Lawrence Baczkowski |
| Chapter 03 (AES10) Aerospace and Electronic Systems Soc, and (COM19) Communications Soc | |
| <i>Chair</i> | Patrick Seeling |
| <i>V-Ch (AE Soc)</i> | |
| <i>V-Ch (Com Soc)</i> | |
| <i>Secretary</i> | |
| <i>Treasurer</i> | Jeffrey Dulzo |
| <i>Past-Ch</i> | Malcolm Lunn |
| Chapter 04 (AP03) AP03 Antennas and Propagation Soc, (ED15) Electron Devices Soc, (MTT17) Microwave Theory and Techniques Soc, Photonics Soc (PHO36) | |
| <i>Chair</i> | Rebecca Peterson |
| <i>V-Ch-Tech (AP Soc)</i> | Anthony Grbic |
| <i>V-Ch-Tech (ED Soc)</i> | Fan-hsuan Meng |
| <i>V-Ch-Tech (MTT Soc)</i> | Najme Ebrahimiseraji |
| <i>V-Ch-Tech (Photonics Soc)</i> | Somin Eunice Lee |
| <i>Secretary</i> | Behzad Yektakhah |
| <i>Treasurer</i> | Xiuzhang Cai |
| <i>Past-Ch</i> | Kimball Williams |
| Chapter 05 (C16) Computer Soc | |
| <i>Chair</i> | Subramanian Ganesan |
| <i>Secretary</i> | Sharan Kalwani |
| <i>Treasurer</i> | Ashok Prajapati |
| <i>Co-Treasurer</i> | S Ramesh |
| <i>V-Ch Admin & Member Devel</i> | Nizar Alholou |
| <i>V-Ch: Technical Activities</i> | Sharan Kalwani |
| <i>V-Ch: Software Activities</i> | Ashok Prajapati |
| <i>Automotive relations Liaison</i> | S Ramesh |
| <i>Tech activities Co-ordinator:</i> | Jesus Salvador Almanza Garcia |
| <i>Student & Education Liaison</i> | Carla Gerst |
| <i>Industrial Liaison</i> | S Ramesh |
| <i>Webmaster</i> | Sharan Kalwani |
| <i>Past-Ch</i> | Subramanian Ganesan |

Note: You must be an IEEE member, in good standing and a member of the Technical Society sponsoring the local Chapter, or at least one Society if the Chapter is a 'joint' Chapter, in order to hold any Technical Chapter office.

Where multiple Societies support the same local Chapter, individual Vice-Chairs maintain contact with each supporting Society to relieve the Chapter Chair of that responsibility.

Also see Chapters 3, 4, 7, 9 & 16.



Voice over Power Point Training:

Many on-line virtual training modules are available through the SEM Website [Training page](http://r4.ieee.org/sem/about-sem/training/) at:

<http://r4.ieee.org/sem/about-sem/training/>

Chapters 06 - 12

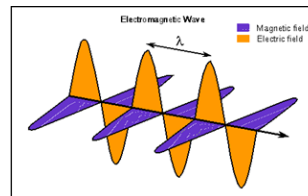
Below we list the second group of our Technical Chapters:

| | |
|---|--------------------|
| Chapter 06 (GRS29) Geosciences and Remote Sensing Soc | |
| <i>Chair</i> | Leland Pierce |
| <i>V-Ch</i> | Adib Nashashibi |
| <i>Secretary</i> | Mostafa Zaky |
| <i>Treasurer</i> | Michael Benson |
| <i>Past-Ch</i> | Adib Nashashibi |
| Chapter 07 (PE31) Power Engineering Soc, (IA 34) Industrial Applications Soc | |
| <i>Chair</i> | David Mindham |
| <i>V-ChTech Activity</i> | Chaitali Naik |
| <i>V-Ch(Pwr Eng)</i> | Looja Tuladhar |
| <i>V-Ch(Ind Appl)</i> | Binaya Joshi |
| <i>Secretary</i> | Koustubh Banerjee |
| <i>Treasurer</i> | Chris Nelson |
| <i>Past-Ch</i> | Ian Hutt |
| Chapter 08 EMC (EMC27) Electromagnetic Compatibility Soc | |
| <i>Chair</i> | Scott Lytle |
| <i>V-ChProf Activity</i> | Akio Fujimaki |
| <i>V-ChTech Activity</i> | Candace Suriano |
| <i>V-Ch-A wards</i> | James Woodyard |
| <i>V-Ch-Com</i> | Scott Lytle |
| <i>V-ChMarketing</i> | Steve Tomba |
| <i>Secretary</i> | Steve Tomba |
| <i>Treasurer</i> | Matthew Feusse |
| <i>Past-Ch</i> | Dennis Barberi |
| Chapter 09 (IE13) Industrial Electronics Soc, (PEL35) Power Electronics Soc | |
| <i>Chair</i> | Sridhar Nalla |
| <i>V-Ch(IndElect)</i> | |
| <i>V-Ch(Pwr Elect)</i> | |
| <i>Secretary</i> | |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | |
| Chapter 10 (TEM14) Technology and Engineering Management Soc | |
| <i>Chair</i> | David Werden |
| <i>V-Ch</i> | Mark Robinson |
| <i>Secretary</i> | Raymond Sasinowski |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | Raymond Sasinowski |
| Chapter 11 (EMB18) Engineering in Medicine and Biology Soc | |
| <i>Chair</i> | Eric George |
| <i>V-Ch</i> | Maurice Snyder |
| <i>Secretary</i> | Yan Yan |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | Maurice Snyder |
| Chapter 12 (CS23) Control Systems Soc | |
| <i>Chair</i> | |
| <i>V-Ch</i> | Khalid Rahman |
| <i>Secretary</i> | |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | Rajeev Verma |

Voice over Power Point Training:

Many on-line virtual training modules are available through the SEM Website Training page at:
<http://r4.ieee.org/sem/about-sem/training/>

Vacant positions are shown as titles without associated names, with the 'name' slot highlighted in yellow.



Volunteers please contact Rajeev Verma, past Chapter Chair who is leading the current 'Search' for Chapter 12 officers:
rajverma@ieee.org

Note: You must be an IEEE member, in good standing and a member of the Technical Society sponsoring the local Chapter, or at least one Society if the Chapter is a 'joint' Chapter, in order to hold any Technical Chapter office.

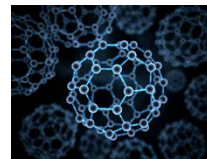
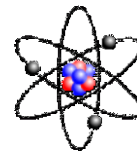
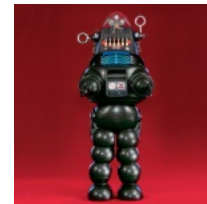
Chapters 13 - 17

Finally, here we list the last group of our Technical Chapters:

Vacant positions are shown as titles without associated names, with the 'name' slot highlighted in yellow.

Note: You must be an IEEE member, in good standing and a member of the Technical Society sponsoring the local Chapter, or at least one Society if the Chapter is a 'joint' Chapter, in order to hold any Technical Chapter office.

| | |
|--|-----------------------------------|
| Chapter 13 (E25) Education Soc | |
| <i>Chair</i> | Sharan Kalwani |
| <i>V-Ch</i> | |
| <i>Secretary</i> | Nizar Alholou |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | Richard Johnston |
| Chapter 14 (RA24) Robotics And Automation Soc | |
| <i>Chair</i> | Grant Kruger |
| <i>V-Ch</i> | Hamid Reza Vejdani Noghreiyani |
| <i>Secretary</i> | Jonathan Berent |
| <i>Treasurer</i> | Chan-Jin Chung |
| <i>Past-Ch</i> | ALI EYDGAHI |
| Chapter 15 (NPS05) Nuclear Plasma Sciences Society | |
| <i>Chair</i> | Nicholas Jordan |
| <i>V-Ch</i> | |
| <i>Secretary</i> | |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | |
| Chapter 16 (CIS11) Computational Intelligence Soc, (SMC28) Systems, Man and Cybernetics Soc | |
| <i>Chair</i> | Jeffrey Dulzo |
| <i>V-Ch(CI Soc)</i> | |
| <i>V-Ch(SMC Soc)</i> | |
| <i>Secretary</i> | |
| <i>Treasurer</i> | |
| <i>Past-Ch</i> | Osman Ahmed |
| Chapter 17 (NANO42) Nanotechnology Council | |
| <i>Chair</i> | Randy Boone |
| <i>V-Ch</i> | Junghoon Yeom |
| <i>Secretary</i> | Wen Li |
| <i>Treasurer</i> | Amar Basu |
| <i>Past-Ch</i> | Wen Li |



FREE - Voice over Power Point Officer Training:

Many on-line virtual training modules are available through the SEM Website Training page at:

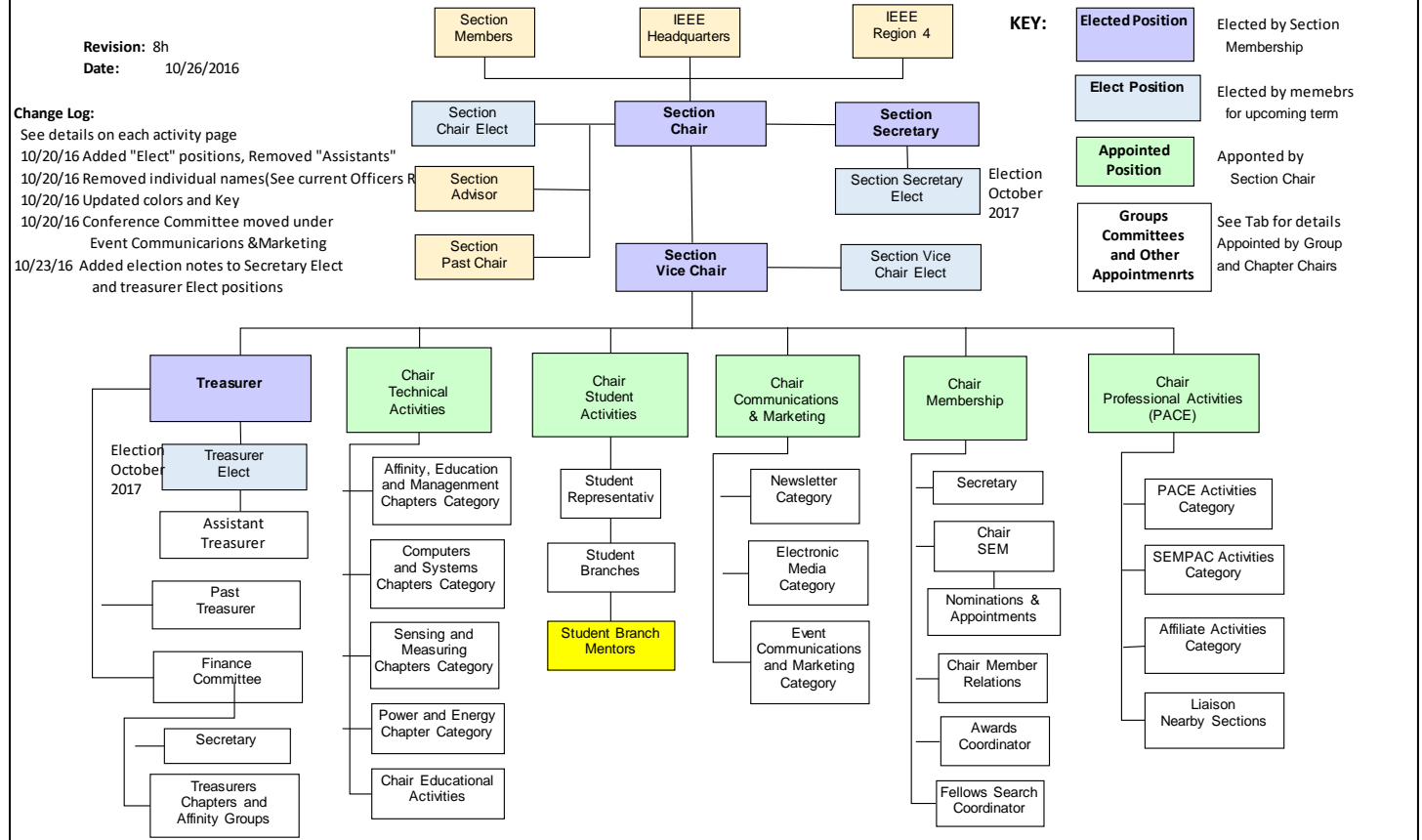
<http://r4.ieee.org/sem/about-sem/training/>

Organization Chart

Below is the overall (Top Level) of the IEEE SEM Organization Chart. The complete chart, with all the detail subpages, may be downloaded at <https://r4.ieee.org/sem/about-sem/>

Note the Standing Committee structure is fundamentally the same but, with changes to the Communications & Marketing Committee.

Current Organization - IEEE Southeastern Michigan Section (SEM)



Constant Updates:

The SEM Organization Chart is an overall 'plan' of organization, not a 'carved in stone' requirement. Any organization as complex and diverse as an IEEE Section, and especially a large Section, such as Southeastern Michigan Section, cannot 'stand still' as conditions and requirements change.

The general plan shown here will be updated soon to reflect recent changes in the composition of its Standing Committees. (See the following pages.)

Standing Committees

Below we list the Section Standing Committees and the acronym for each. Each of the Committee name is also a link to the Committee Charter (if one currently is on file.) 'Hover' your cursor over each Committee name, and read the 'note' that appears. If it says something about the "Charter not yet available", don't bother downloading it. (*It won't be very informative.*)

| <u>Standing Committees</u> | <u>Acronym</u> | |
|---|----------------|---|
| Executive Committee | ExCom | Note: This is the only 'Elected' Committee. All others are comprised of appointed positions. |
| Finance Committee | FinCom | |
| Technical Activities | TACom | |
| Education Committee | EDUCom | |
| Student Activities | SACom | |
| Student Branch Mentors | MentCom | |
| Web Communications | WebCom | |
| Conference Committee | ConCom | |
| News – Print & | NewsCom | |
| Member Development | MDCom | |
| Nominations & | N&Acom | |
| PACE Activity | PACE | |
| Affiliation Activities: | AACom | |
| Nearby Section | NSCom | |

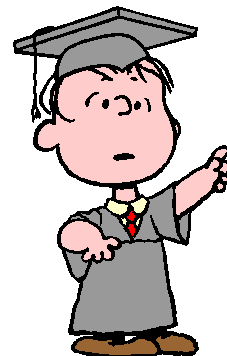
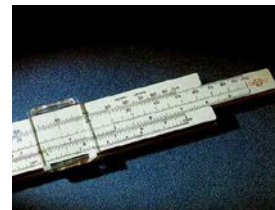
On the next page we begin a detailed listing of our Standing Committees and the officers and vacant opportunities for appointment.

Note that appointment to a Committee Chair position requires the direct appointment of the Section Chair. Appointment to a Committee position (other than chair) requires appointment by the Committee Chair.

Committee Details – 1 of 3

Details of the Standing Committees follow in three steps:

| | |
|----------------------------------|-----------------------|
| Treasurer Activities: | |
| <i>Treasurer</i> | Michael Folian |
| <i>Asst Treasurer</i> | |
| <i>Past Treasurer</i> | Kimball Williams |
| Finance Committee: | |
| <i>Finance Committee Chair</i> | Nevrus Kaja |
| <i>Secretary</i> | David Mindham |
| <i>Treasurer</i> | Michael Folian |
| <i>Section Chair</i> | Robert Neff |
| <i>Section Chair-Elect</i> | David Mindham |
| <i>Grant Coordinator</i> | |
| All Geo-Unit Treasurers: | |
| Technical Activities: | |
| <i>Chair</i> | Jeffery Mosley |
| <i>Secretary</i> | ANEESH MATHAI |
| <i>V-Ch</i> | |
| <i>Technical Coord</i> | Joseph Giachino |
| <i>Technical Coord</i> | S Ramesh |
| <i>Info Mgnt Coord</i> | Kimball Williams |
| <i>Asst. Info Mgnt Coord</i> | |
| <i>vTools Coord</i> | |
| Education Committee: | |
| <i>Chair</i> | Christopher Guirlanda |
| <i>Secretary</i> | Malcolm Lunn |
| <i>Temp V-Ch</i> | Benjamin Sweet |
| <i>Section STEM Coordinator</i> | Malcolm Lunn |
| <i>Bacon Library Coord</i> | Barry Steltz |
| <i>CKL Library Coord</i> | Ahmad Habbal |
| <i>Future Cities Coord</i> | Don Bramlett |
| <i>Library Science Coord</i> | Candace Suriano |
| <i>Science Fair Coord</i> | Don Bramlett |
| <i>Rofobest Coord</i> | Chan-Jin Chung |
| <i>Mi. State STEM Liaison</i> | Lin Van Nieuwstadt |
| Student Activities: | |
| <i>Chair</i> | Jiann-Cherng Chi |
| <i>Secretary</i> | |
| <i>Student Representative *</i> | |
| <i>Communication Coordinator</i> | Hesham Alghodhaifi |
| Student Branch Mentors: | |
| <i>Chair</i> | Don Price |
| <i>V-Ch</i> | |
| <i>Secretary</i> | |
| <i>Mentors (See each Branch)</i> | |

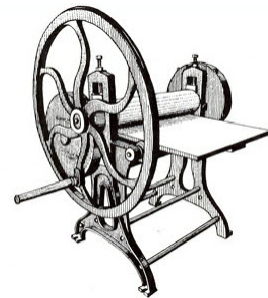


Continued on the next page.

Committee Details – 2 of 3

Finally, here we list the last group of our Technical Chapters:

| | |
|---|---------------------|
| Web Communications Committee: | |
| <i>Chair</i> | |
| <i>V-Ch</i> | |
| <i>Secretary</i> | |
| <i>Webmaster</i> | Scott Lytle |
| <i>Associate Webmaster</i> | Irina Sullivan |
| <i>Associate Webmaster</i> | Sharan Kalwani |
| <i>Social Media Coord</i> | Sharan Kalwani |
| <i>Collabratec Coord</i> | |
| <i>ListServ Coord</i> | Christopher Johnson |
| <i>Additional Committee Staff</i> | |
| Conference Committee: | |
| <i>Chair</i> | |
| <i>V-Ch</i> | |
| <i>Secretary</i> | David Mindham |
| <i>Conference Treasurer</i> | |
| <i>Sponsorships</i> | |
| <i>Event Publications</i> | Ravi Nigam |
| <i>Media Relations</i> | |
| <i>Additional Committee Staff</i> | |
| News - Print & Electronic Communications | |
| <i>Chair</i> | |
| <i>V-Ch</i> | |
| <i>Secretary</i> | |
| <i>e-Wavelength Editor</i> | Nevrus Kaja |
| <i>e-Wavelengths Dvlpt Coord</i> | Benjamin Doerr |
| <i>e-Wavelengths ListServ Ops</i> | Christopher Johnson |
| <i>Newsletter Editor</i> | Sharan Kalwani |
| <i>Newsletter Co-Editor</i> | Irina Sullivan |
| <i>Newsletter Assistant</i> | Nilesh Dudhaia |
| <i>Publications Review</i> | |
| <i>Additional Committee Staff</i> | |



Continued on the next page.

Committee Details – 3 of 3

Finally, here we list the last group of our Standing Committees.

| | |
|--|--------------------------|
| Member Development: | |
| <i>Chair</i> | Irina Sullivan |
| <i>Secretary</i> | |
| <i>V-Ch</i> | Amanda Mohan |
| <i>Awards Coord</i> | |
| <i>Fellows - Coord</i> | William Moylan |
| <i>New Member Relations</i> | |
| <i>Member Engagement</i> | Charles Albrecht |
| <i>Member Elevation</i> | |
| <i>Member Retention</i> | |
| <i>Student Elevation & Retention</i> | |
| Nominations & Appointments Committee: | |
| <i>Chair</i> | Kimball Williams |
| <i>Secretary</i> | |
| <i>Administrative V-Ch</i> | |
| <i>Director Elections</i> | |
| <i>Director Appointments</i> | Yiming Deng |
| PACE Activity: | |
| <i>Chair</i> | Sharan Kalwani |
| <i>Secretary</i> | |
| <i>PACE Event Coord</i> | Fernando Maymi |
| Affiliation Activities: | |
| <i>Government Relations</i> | David Mindham |
| <i>Academic Relations</i> | Marcelo Araujo Xavier |
| <i>Industrial Relations</i> | |
| <i>ESD Liaison</i> | Kimball Williams |
| Nearby Section Liaisons: | |
| <i>NMI Section Liaison</i> | Ahmed Mohamed Abdelgawad |
| <i>Toledo Section Liaison</i> | Dominic Wilson |
| <i>Windsor Section Liaison</i> | Mohamed Khalid |
| <i>West MI Section Liaison</i> | Johnson Asamadu |



Volunteer Portal

Non-Elected Geo-Unit Positions:

While we elect our basic officers (Chair, Vice-Chair, Secretary, Treasurer), many geo-units utilize the talents and energy of 'appointed' volunteers. For these positions, contact the Chair of the particular geo-unit, and discuss the opportunities. Alternatively, look at the article on the following page about the new Volunteer Portal, which may be a more comfortable.

Note: Chairs of all Geo-units and Standing Committees have full authority to appoint (or remove) appointed volunteers on their staff.

Nominations and Appointments Committee (N&ACom) supports a [Google Form](#) designed to identify volunteer opportunities available at all levels of our Section, including:

- Executive Committee,
- Standing Committees,
- Affinity Groups,
- Technical Chapters, and
- Student Branches.

The tasks and volunteer needs within our organization change with time, and it is not unusual for these tasks to require more time and energy than one elected or appointed officer can handle alone. When we find ourselves in that situation, we reach out to our members for assistance.

From Officers to Members:

With the help from our officers, the new Volunteer Portal will become a central depository for all our volunteer needs easily accessible to all members. This site will feature links to details for each volunteering opportunity being advertised, including estimated time commitment, a detailed job description, where applicable, and the name of the geo-unit and officer requesting the assistance along with pertinent contact information.

You can view a preliminary version of the Portal at:

<http://r4.ieee.org/sem/about-sem/volunteer-portal/>

Currently there are about 20 vacant positions for consideration and we encourage all members to view them and select those that may help them grow in knowledge and experience through volunteering.

The Portal will be a 'one stop shop' for all members interested in volunteering with any of the SEM organizations. And each potential volunteer can select those opportunities that look most interesting to them and contact the particular officer seeking help to discuss the opportunity in more detail.

Note: While elected officer positions require membership level above the Student level, as well as, membership within the geo-unit, neither of those restrictions apply to appointed volunteer positions. This means that a volunteer position obtained through the Portal may be a great introduction to operations of a particular geo-unit and its management team.

Web Site Access:

The new Volunteer Portal is now accessible and shows a small selection of volunteering opportunities currently available with SEM. We expect that new opportunities will be added as the officers seeking help enter them into the system.

We hope that our members will find Volunteer Portal helpful in becoming actively engaged with the local IEEE organization that interest them and will give them the experience to grow new talents and skills.

IEEE SEM Geo-Unit Officers, Committee Chairs, etc. have been asked to fill in the Volunteer Survey form in order to populate the Volunteer Portal with the positions information about the area where you need volunteer help, or to replace vacant positions in their Administrative Committees.

SEM Officers may find the form at:

<https://drive.google.com/open?id=1DAyfMNizv4W0lhWlIsKKvvIPGNLHexoEi99FFmhnIE>

Electric Aircraft Symposium

AIAA/IEEE ELECTRIC AIRCRAFT TECHNOLOGIES SYMPOSIUM

22-24 AUGUST 2019 | INDIANAPOLIS, INDIANA

Building upon a successful event in 2018, the 2019 Electric Aircraft Technologies Symposium will look at progress over the past year and continue the discussion about the aerospace industry goals for future aircraft. To accommodate rapid growth in emerging markets and ensure sustainability of air travel, one approach being explored is using nontraditional aircraft propulsion: electric, turboelectric, or hybrid-electric powertrains. AIAA and IEEE crafted this unique symposium to bring the aerospace engineers and the electrical engineers together to discuss these topics and their challenges.

The 2019 symposium will focus on electric aircraft technology across three general areas: electric-power-enabled aircraft configurations and systems requirements, enabling technologies for electric aircraft propulsion, and electric aircraft system integration and controls.



TOPIC AREA 1

Aircraft Configurations and Systems Requirements

- › System feasibility studies
- › Electric-enabled innovative aircraft design and propulsion concepts
- › Electrical powertrain performance requirements
- › Safety, critical failure modes, certification
- › Lifecycle energy, operational cost, and emission analysis

TOPIC AREA 2

Enabling Technologies and Components

- › Machines and drives integration for optimum performance
- › Conventional, cryogenic, and superconducting
- › Energy storage devices and systems
- › Electric machine and gas turbine integration
- › New material solutions or applications
- › Novel thermal management solutions

TOPIC AREA 3

System Integration and Controls

- › Electric powertrain architectures
- › Fault isolation and reconfigurable systems
- › Energy management systems
- › Integrated electro-thermal systems
- › System modeling tools
- › Monitoring and diagnostics
- › Verification and testing

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ITEC2019

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Nitin Patel
Head of Ept Technology and Design
FCA US LLC



Eric Hultgren
General Dynamics
Electric Boat



Hao Huang
Technical Chief
GE Aviation



John M. Miller
Technical Advisor
Momentum Dynamics



Igor Stamenkovic
Global Technology Director
Eaton



Carl Kutsche
Chief Technologist
Idaho National Labs



Richard Hellinga
Manager
Borgwarner Waterloo
Technical Center



Annette Muelze
Professor
Graz University of
Technology



Anand Sankaran
Director, Electrified
Powertrain Engineering
Ford Motor Company



Steven Boyd
Program Manager, Vehicle
Technologies Office
US Department of Energy

Program Details

- 5 Short Courses
- 8 Panels
- Town Hall Panel
- 5 Tutorials
- Networking Events

Industry Exhibition



And many more! Visit www.itec-conf.com/exhibition for more information about exhibiting.

Suburban Collection Showplace

Novi, Michigan, USA

June 19-21, 2019

www.itec-conf.com

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ITEC Sponsors



Recent Events:

One-Day: Amateur Radio license class:

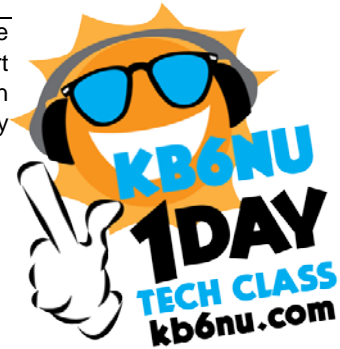
Saturday, January 12, 2019 was a cold, windy day outside but, perfect weather inside the management building at Lawrence Technological University (LTU) for 23 students to take part in the One-Day License Class, conducted by Dan Romanchik, Amateur Radio Call Sign KB6NU. Room M336 was warm and cozy, with coffee and rolls for breakfast to get the day started.

(Special thanks to Ben Sweet for all the arrangements at LTU.)

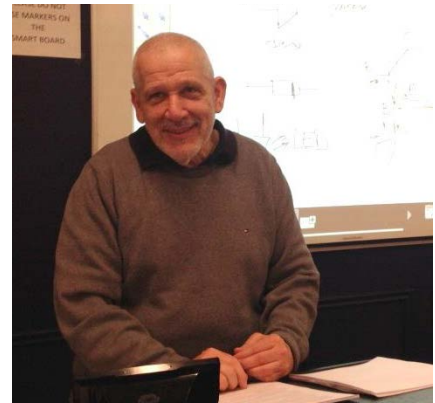


Dan also publishes a free study guide, “No Nonsense Technician Class License Study Guide” which students may download as a PDF version for free from <https://kb6nu.com/study-guides/>.

Students are encouraged to read through the study guide a few times before class, take some online practice test and bring questions to class so that any fuzzy points can be cleared up before taking the test.



Dan, who is based in Ann Arbor, Michigan has taught these classes for several years with a better than 85% successful ‘pass’ rate for the FCC examination.



Volunteer examiners (VEs) from

several Detroit area Amateur Radio clubs administered the FCC Examination for the Amateur Radio licenses. These included Hams from the Ford Motor Amateur Radio League (Tin Lizzy), the Hazel Park Amateur Radio Club and the Livonia Amateur Radio Club.

At the end of the class, after the exams were concluded, final results were:

18 new Technician Class Licenses! 1 new General Class License! 2 will need to take the exam again. (2 did not take the exam.) Of those who took the exam, 95% passed!

Note: Several local Amateur Radio Clubs conduct 8 to 12 week classes for those who need more study time and coaching to get their ‘Ham Radio Ticket’. Find them through the American Radio Relay League site at: <http://www.arrl.org/find-a-club>

Coordination for the class refreshments and lunch were sponsored by the IEEE Southeastern Michigan – Chapter 8 (EMC). With this first successful ‘trial run’ they plan to work with local university IEEE Student Branches to hold more such class opportunities throughout the year.

For more information, contact Dan Romanchik, KB6NU: 734-930-6564, cwgeek@kb6nu.com

Recent Events: Future City Judging 2019

By Don C. Bramlett, PE, LSMIEEE, FESD, FMSPE

The annual, national Future City Competition is a STEM pre-university program for 6th, 7th and 8th grade students. The national Future City Competition judging is held at the National Building Museum in Washington DC during National Engineers Week in late February. It is preceded by state/regional competitions, the winners of which compete in the national competition.

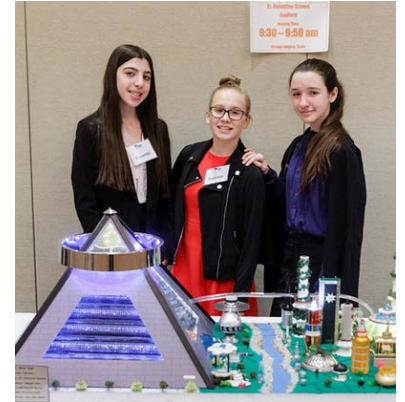
Judging for the Michigan Regional Future City Competition was conducted on Tuesday, January 29, 2019. This year there were 22 middle school projects submitted for judging in the competition held at the Suburban Collection Showplace in Novi. The overall competition judging is based on how the student team addressed several project elements. The student team, composed of at least 3 members, is supported by a teacher and an engineer mentor. The “SimCity” computer program is used as a basis for the design of the city. One element for judging is an essay on a defined specific subject to be addressed in the city design; this year the subject was mitigating damage and enabling timely recovery to electric power systems. Another element for judging was a 3-D scale model of a section of the city built with excess materials having a value less than \$100. The final important element for judging is a less than 3 minute oral project presentation on the design merits of the city by three student team members to a group of adult judges.

For the 19th straight year the IEEE Southeastern Michigan (IEEE-SEM) Section has provided a team of volunteer professional award judges to evaluate the student projects and award the Electro-Technology Award to the project that best demonstrates features associated with IEEE related fields of interests. The Section would like to express its appreciation to the IEEE-SEM members who volunteered to be members of the IEEE professional organization judging team. The team of judges included Charles Cohen, Ph.D; Laurence Dishman; Don Bramlett, PE; Kimball Williams and David Morris, Ph.D.

The IEEE-SEM team of judges awarded the Electro-Technology Award for the second year in a row to a team of students from Trinity Lutheran School in Utica. The three student presenters were Joshua Byars and Andrew Miller, both 7th graders, and Ethan Rozek, a 6th grader. The student team was supported by their teacher, Loren Sheppard, and an engineering mentor, Chris Miller, who works for PMP Developers.

The future city is Anacortes in the state of Washington, USA in the year 2160. The city has 4 sources/types of

electrical power, wind (windmills), hydroelectric (water turbines), natural gas (Food Storage Elevator), and solar (Analift). The city has two special characteristics the Analift (a scissor lift mechanism that raises the city 300 feet into the air to protect it from Natural Disasters) and SAM (supercomputer network). The transportation is autonomous vehicles controlled by SAM.s,



The St. John Lutheran School team from Rochester won the local Michigan Regional Future City Competition and represented Michigan in the national competition. The Trinity Lutheran School took second place in the local competition.



All involved students, parents, teachers, mentors, judges, and staff had great time and look forward to next year.



Recent Events: IEEE-SEM Science Fair Awards

By Don C. Bramlett, PE, LSMIEEEE, FMSPE, FESD,
IEEE-SEM Section Advisor

The 62nd Annual Science and Engineering Fair of Metropolitan Detroit (SEFMD) was held from March 12 through March 15, 2019 in the Oakland Hall of the Cobo Conference Exhibition Center in downtown Detroit. Judging of student projects was performed on Wednesday, March 13. This year the SEFMD had over 130 schools participate from Wayne, Oakland, Macomb and Washtenaw counties with approximately 1,353 students having projects on display in two Divisions, the Junior Division (6th thru 8th grade students) and the Senior Division (9th thru 12th grade students). Exhibits were classified into 23 general categories for judging; including Embedded Systems, Energy: Physical, Robotics, and System Software.

For the 24th straight year the IEEE Southeastern Michigan (IEEE-SEM) Section has provided a team of volunteer judges to evaluate student projects associated with IEEE fields of interest. The Section would like to express its appreciation to the IEEE-SEM Section members who volunteered to be members of the IEEE professional organization awards judging team or serve in other roles this year.

The Section wishes to thank the five (5) IEEE-SEM members, and their companies/institutions, for taking the time to volunteer and help to make the Science Fair a more pleasurable and meaningful experience for the middle school and high school students who participated. The IEEE-SEM judging team was composed of the following four (4) volunteers:

Don C. Bramlett, DTE Electric (DTE Energy) – retired
Ralph Mackiewicz, SISCO, Inc.
Bill Quinlan, AAM
Kimball Williams, DENSO-retired

Other IEEE/SEM Section members served in other capacities at the SEFMD, such as:

Dave Morris, (General Category Judge), Mitre

The judges had the opportunity to view and evaluate a number of exhibits, especially some interesting projects in areas pertinent to IEEE fields of interest. The judges and the high school students in the Senior Division had the pleasure to interface and discuss in depth some of the principles, scientific techniques, engineering approach, experimental results and applications pertinent to the projects.

The IEEE-SEM Section, based on the evaluations of the panel of judges, awarded three (3) First Place Grand

Awards in the Senior Division, consisting of a personalized certificate and a cash award for each awardee. These awards were presented to:

Senior Division:

Matthew Tan, senior at Cranbrook Kingswood Upper School in Bloomfield Hills, for his project entitled “Hardware Integrated LiDAR Simulation for Collision Avoidance Algorithms.”

Alexander Wan, a sophomore at Novi Senior High School in Novi, for his project entitled “Cycle Generative Adversarial Networks for Automatic Cell Segmentation.”

Yang Chen, a junior at Cranbrook Kingswood Upper School in Bloomfield Hills, for his project entitled “Active Learning over DNN: Automated Engineering Design Optimization for Fluid.”

The panel of judges also determined that the IEEE-SEM Section would provide a number of Outstanding Achievement Awards to other noteworthy projects in the Junior and Senior Divisions. Each Outstanding Achievement Award consisted of a personalized certificate for each awardee. Some of these awardees include:

Keinan Alaref, a seventh grade student at Michigan Islamic Academy Middle School in Ann Arbor, for his Project entitled “Increasing the Efficiency of Solar Panels.”

Anirudh Cowlagi, a junior at Huron High School in Ann Arbor, for his project entitled “Novel IOT-based Monitoring and Feedback System for Off-Grid PV Modules.”

Sally Kim, a seventh grade student at Boulan Park Middle School, for her project entitled “Do Our Devices Listen to Us?”

Aditi Sharma, a senior at Detroit Country Day Upper School in Beverly Hills, for her project entitled “InvasiMap: An Invasive Species Tracker Utilizing Gamification NN and CBDC.”

For further information on the Science Fair judging, awards and project abstracts go to www.sefmd.org.

The IEEE/SEM Section plans to continue to staff other panels of special awards judges at both the Michigan Regional Future City Competition and the SEFMD in 2020, and in subsequent years. These are just a couple of the pre-university education programs that the IEEE-SEM Section promotes.

Recent Events:

Raspberry Pi

Our presenter, Jim Baksa, KD8HFX, one of the past presidents of the Motor City Radio Club, attended Henry Ford Community College where he earned his Associate's Degree in Computer Information Systems. Then attended the University of Michigan where he earned a Bachelor's Degree in Education. He has spent the last 28 years working for the YMCA of Metropolitan Detroit as their Director of Information Systems. Jim spends much of his free time working with computers, tinkering with electronics, and enjoying ham radio.

Members of IEEE Southeastern Michigan (EMC-Society) Chapter 8 were treated to Jim's presentation on the evolution and applications available to users of the Raspberry Pi computer and some of its uses. Jim provided a brief introduction to the ease (and low cost) applications of this versatile small computing system the 'Standing Room Only' crowd of IEEE members and fellow Amateur Radio Operators at the KeySight facility in Farmington Hills.



The Raspberry Pi was created in February 2012 – Originally setup to promote and teach basic computer science in schools and universities in the UK, it ran lightweight versions of Linux. The PI Model A was priced at \$35, was small, durable and with eight programmable GPIO pins, they soon became very popular with the Maker Community so that 4.5 Million devices were sold by February 2014.

After reviewing the history of the development of the first Raspberry Pi, through its subsequent follow on releases, Jim showed us the range of software that first comes embedded with the fundamental Linus operating system. These software tools enable Web Browsing, Office Applications, Programming, Email, Printer Server, Media Center, Retro Gaming Console and Time-lapse photography.



For the time lapse photography Jim showed us the results of setting up a small Raspberry Pi with a camera, programmed to take one photograph each minute that sat in his office window for 77 weeks and photo documented the construction of a new hotel across the street.



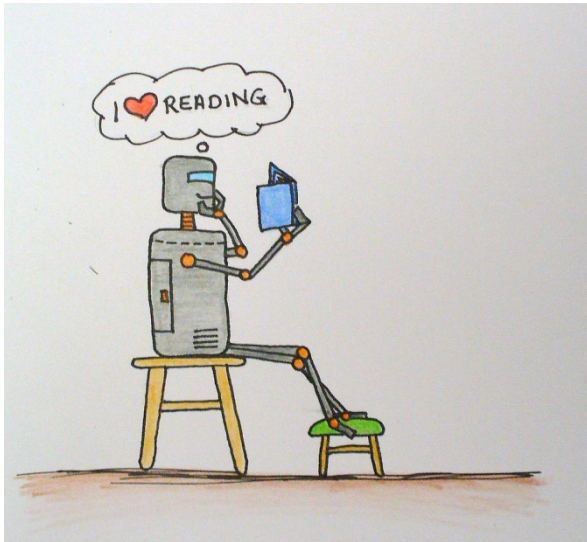
Jim walked us through multiple applications from browsing the web, to capturing weather Fax maps, decoding Amateur Radio digital communications signals, playing almost every known past computer game, monitoring and controlling devices in your home, serving as the driver for a software defined radio (SDR) system,

Officers and members of the EMC Chapter took a light hearted approach to the evening and brought enough actual Raspberry Pie for everyone to have a slice, along with pizza and the presentation.



STEAMers Think Tank:**STEAMers Think Tank: A Maker Unconference**

May 2, 2019, 9:00am - 5:00pm
Rochester Hills Public Library

**Adult**

A free participant-driven gathering of knowledge-sharing and brainstorming for makers, educators, library professionals and students of all experience levels.

[REGISTER](#)

Rochester Hills Public Library provides life-long learning opportunities, instills a love of reading, and offers equal access to information. The library serves as a community town square, where over 45,000 monthly visitors enjoy innovative ways to learn and socialize through a variety of programs including Sunday concerts, a summer reading challenge, parent-child workshops and weekly lectures.

The library's expansive and user-friendly database system allows its 70,000 card holders to utilize ebooks, movies, and music downloads, language and genealogy services, and consumer reports from the comfort of their own home at no cost.

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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)

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 sometime, 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 2017-2018 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 2018 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.

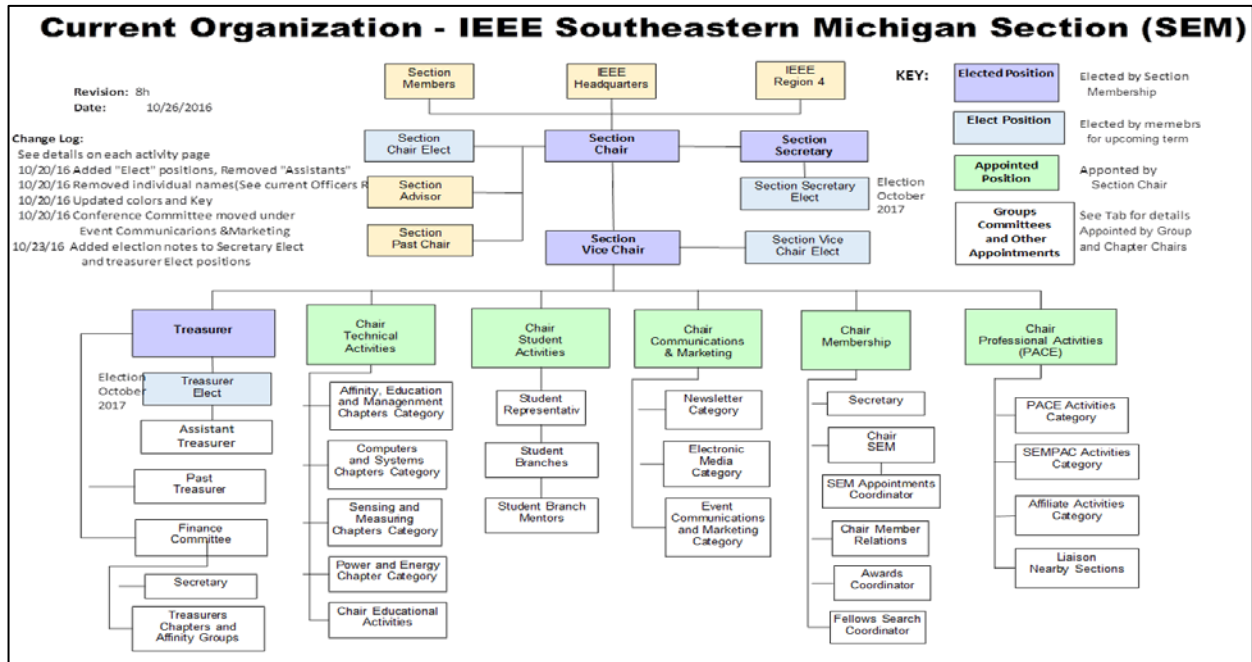
However, members of the section may have multiple technical interests and would like to have meeting information of other chapters. In order to communicate the meeting dates of all the chapters, affinity groups etc., to our members to facilitate their attendance, leaders of the groups are requested to 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 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 2018 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 2018 meetings. Or, link your personal calendar to the SEM Web calendar.

ExCom: Meeting Schedule for 2019:

~~F2F, Wednesday Jan 9, [New Officers Meet and Greet]~~

~~Teleconference, Thursday Feb 7~~

~~Teleconference, Wednesday March 6~~

F2F, Thursday, April 4

Teleconference, Wednesday May 1

Teleconference, Thursday June 6

F2F, Wednesday July 10 [Moved for the 4th of July]

Teleconference, Thursday August 1

Teleconference, Wednesday September 4

F2F, Thursday October 5

Teleconference, Wednesday November 6

Teleconference, Thursday December 5

Note: All IEEE Members are welcome at any IEEE meeting, at any time but, please register so we can be sure to accommodate you.

Eric George
SEM Assistant 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

k.williams@ieee.org
sharan.kalwani@ieee.org
isullivan@ieee.org
nilesh.dudhaia@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
jrwwoodyard@gmail.com
k.williams@ieee.org
isullivan@ieee.org
nilesh.dudhaia@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.”

Online Community <http://sem.oc.ieee.org>

Section Officers

Section Chair
Robert Neff

Section Secretary
Eric George

Section Vice-Chair
Nevrus Kaja

Section Treasurer
Michael Folian

Standing Committees:

Section Adviser
Don Bramlett

Chair Communications & Marketing

Chair Educational Activities

Chair Finance
Nevrus Kaja

Chair Membership
Irina Sullivan

Chair Nominations & Appointments
Kimball Williams

Chair Professional Activities (PACE)
Sharan Kalwani

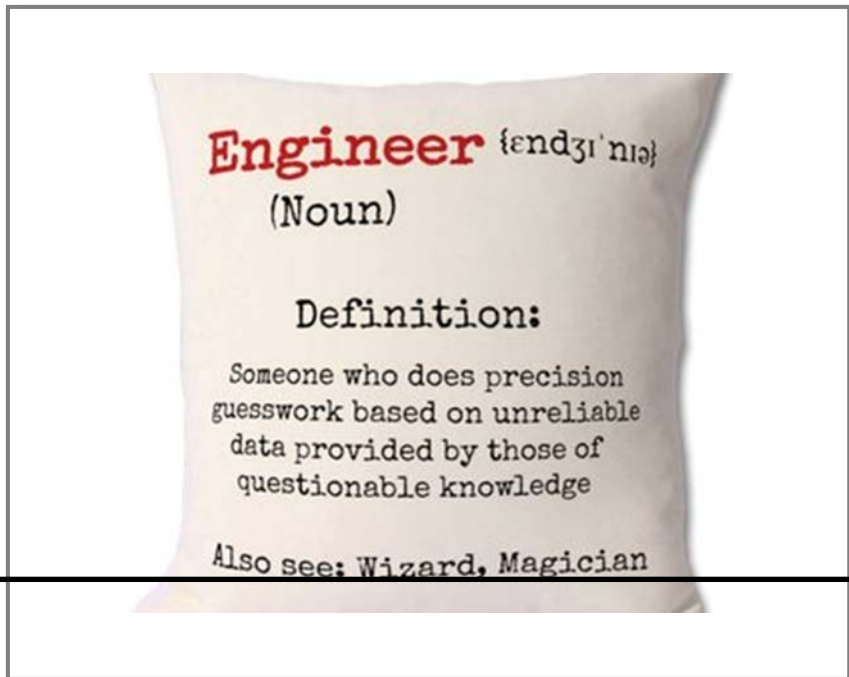
Chair Student Activities
Mel Chi

Student Representative

Chair Technical Activities
Kimball Williams



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>