



Wavelengths

Section Chair's Message



The Spring Conference Organizing Committee is planning our Spring Conference for late April. All Chapters are requested to participate with speakers or co-sponsor speakers fitting the theme of the Conference in order to have Chapter participation in the conference format. Please contact the Conference Chair, Robert Adams (robert.t.adams5@gmail.com) for details.

All is not perfect. In the areas of our Chapter and Affinity Group leadership, we still have work to do. A few of our Chapters and Affinity Groups have not performed even the minimum duties required to keep their group affiliated with our Section and recognized by IEEE. One of my top priorities will be to make changes to rectify this situation.

Being elected to a position is not the only way to volunteer here in Southeastern Michigan IEEE. We need to fill open positions in our current organization (see page #4, #5 & #6), our Spring and Fall Conference Committees and in our Standing Committees.

In the Special projects areas please see the articles about judges needed for the Future Cities Competition on page #7 and the Detroit Science Fair page #8.

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January 2017

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Newsletter Archive: <http://sites.ieee.org/sem/>*

New Year's Message:

I am embarking on my 4th year as your Chair, thank you for re-electing me for the next 2 years. Please let me know your suggestions, concerns, criticisms and compliments. I need the feedback so your elected officers and I can understand what is working and what needs improvement.

In some areas our SEM Section has done well, such as our financial awareness, updated procedures and a more stable executive organization. 2016 was an exciting year with great Spring and Fall conferences and many well attended Chapter and Affinity Group events. We even won an award from IEEE for Outstanding Section Member Retention.

(Chair's Message – Continued)

IEEE's tag line that appears just under the logo is "Advancing Technology for Humanity".

As electrical and electronic engineers have a responsibility to improve the lives of all humans. "Peace on Earth, Goodwill Toward All" is a good way to look at your engineering efforts. We will all leave a legacy of designs, projects, education and mentoring. May we be proud of what we leave behind this year.

Happy New Year

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

Farewell & Hello:

Farewell:

One of the 'facts of life' in any large organization is that circumstances beyond our control may separate us from longtime friends and co-workers.

Also, we can expect this 'churn' to being old friends back into our lives from time to time. We see both effects in play in our Section at this time.

Our friend and colleague of many years, Mohamad Berri has accepted a work assignment that will take him to India for a three year tour of duty.



Over the years, many members have met Mohamad at our Spring and Fall Section Conferences as either the 'Master of Ceremonies' or in the role of the Section Chair of Membership and Awards Chair when he hands out the awards to our exceptional members.

We all wish Mohamad well while he is away, and hope he will return to us with many new ideas for the Section.

Welcome Back:

One other of the 'facts of life' seems to be that, on occasion, we may be lucky enough to have old friends and acquaintances return to the Section after being away for a while. This is just what has happened as we welcome back Aisha Yousuf after several years on the East Coast of the USA.



Aisha was active in our Section before she left, and has returned to us ready to help out again. With the impending departure of Mohamad to India, our Section Chair, Bob Neff, has appointed Aisha as our new Membership Chair.

We are happy to welcome Aisha back to SEM and ask all our volunteers and member to help make her tenure as our new Membership Chair a successful experience in her career.

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e-Wavelengths:

Most of our readers will have already received eNotices giving links to the new system **e-Wavelengths**. This new service is designed to provide rapid notification of events of interest to IEEE members in our Section, and in neighboring Sections.

A persistent problem with any newsletter, such as our traditional 'Wavelengths' is the 'time delay that is inevitable in printing a periodic publication. Often items of interest to members will come to the attention of the editorial staff almost immediately after the most recent issue is launched. At that point, no effective changes are possible.

One solution to this dilemma is to separate the information about time dependent events from the 'historical' and 'informative' portions of the document. Those events then are published in a rapid response format that can be modified 'on the fly' if required, in order to make the most current information available to our members.

This is the function of the new web based **e-Wavelengths**:
www.e-wavelengths.org

An example is extracted from the December 2016 publication is shown below.

The function and place of our traditional newsletter format, which you are reading now, remains, to give long range

planning information, record the results of Section events, provide references to consistent and stable information of use to our members and our officers.

The intent of the PDF version of the Wavelengths is to become our 'History' of Section operations in a month by month record.

Your comments on both formats would be appreciated by the editors of each.

To comment on e-Wavelengths:
benjamin.doerr@gmail.com

To Comment on Wavelengths PDF version:
k.williams@ieee.org.

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Upcoming Meetings and Webinars: *(example of e-Wavelengths content. In the webpage, the links are live.)*

Dec 1 at 11:00 am *(on the Internet)* [Simulating Electromagnetic Shielding in Electronics and Transportation Applications](#) — (IEEE SPECTRUM) - strategies, design compromises, coupling, special modeling techniques ...

Dec 1 at 1:00 pm *(on the Internet)* [Reimagining Interconnection Rules and Procedures for Next-Generation Power Technologies](#) — (IEEE SmartGrid) — modeling, grid hosting capacity, reduced risks, adoption, best practices ...

Dec 2 at 2:00 pm *(Ann Arbor)* [Solution of Extremely Large Forward and Inverse Problems in Computational Electromagnetics: BIG DATA Aspects](#) -- (PES/IAS) - dense matrix equations, parallelization, clusters, fast solvers, iterative methods, optimized communications ...

Upcoming Conferences and Workshops:

Dec 11 *(Washington, DC)* [Rock Stars of Connected Health Cybersecurity](#) - (CS) - blockchain, big data, medical records, IoT devices, telemedicine, sensitive data ...

Dec 14 *(Hoffman Estates)* [Chicago Suburbs Tech Security Conference 2016](#) -- security analytics, data protection, cloud leverage, threats, protection ...

Section Elections - 2017

For most our members, the election for 2017 Officers has been over for many weeks. But, the Nominations and Appointments Committee, (N&ACom), is still busy.

N&ACom is responsible for conducting elections as well as verifying that each of the new officers is aware that they have been elected, that they accept the office and that they understand what that office requires.

Juggling and keeping track of 247 Officer positions (Elected and Appointed) within the Section can be monumental task. But, it has been eased this year with our two new N&ACom officers:

Akarshan Gulhane,
Vice-Chair Appointments and
Yiming Deng,
Vice-Chair Elections.

We have just completed the final stretch of ensuring that all the elected officers are 'confirmed' in their positions. Now the work of finding volunteers to 'fill the holes' begins in earnest.

The Committee officers send their "Thank You" to all the candidates and to all the members who voted in the election. The democratic process is a slow one. However, it is still the best and most representative method of selecting who will lead us in the future.

SEM 2017 Officer Listing

Please take a few minutes to review the 2017 SEM Officer listing below. If you find an error in the list below, please contact the committee chair at: k.williams@ieee.org

NOTE: An officer position followed by a 'blank' area highlighted in Yellow indicates a vacant position waiting for an IEEE volunteer to step forward.

Executive Committee:

Chair	Robert Neff
Chair-Elect (2018)	Robert Neff
Secretary	David Mindham
Asst Secretary	Shannon Ridley
V-Ch	Liang Xi Downey
V-Chair-Elect (2018)	Nevrus Kaja
Treasurer	Basil Sherlund
Asst Treasurer	Xinhua Xiao
Section Adviser	Don Bramlett
Past Chair	Kimball Williams

Affinity Groups:

Consultants Network Affinity Group: (CM400)

Chair	Charles Albrecht
V-Ch	Jesus Salvador Almanza Garcia
Secretary	
Treasurer	Harry Hill
Past Chair	Jacob Beningo
Technical Coordinator	Kimball Williams

Life Member Affinity Group: (LIFE)

Chair	Harpreet Singh
V-Ch	Ramasamy Uthurusamy
Secretary	Arun Hundiwal
Treasurer	Ashok Patel
Past Chair	
Technical Coordinator	Kimball Williams

Women in Engineering Affinity Group: (WIE)

Chair	
V-Ch	Alexandra Roche
Secretary	Annah Allboani
Treasurer	Amanda Mohan
Past Chair	Joanna Hill
Technical Coordinator	Kimball Williams

Young Professionals Affinity Group: (YP)

Chair	Ian Hutt
V-Ch	Joseph Johnson
V-Ch	SHASHANK KAMTHAN
Co-Secretary	Xinhua Xiao
Co-Secretary	James Shamel
Treasurer	Candace MacDonald
Past Chair	SHASHANK KAMTHAN

Are you interested in contributing as a Chapter or Affinity group officer? Use the link below to indicate your interest, and the Nominations and Appointments Committee will contact you:

<https://ieee.fluidsveys.com/s/sem/>

Find the full SEM Officer listing, along with contact details at:

<http://sites.ieee.org/sem/about-sem/current-officers/>

Chapters 1 – 4:

Chapter: 01 (SP01) Signal Processing Soc, (C)

Chair	Robert Adams
V-Ch(SP Soc)	
V-Ch(C&S Soc)	Kenji Aono
V-Ch(IT Soc)	Jeffrey Dulzo
Secretary	
Treasurer	
Past Chair	Jeffrey Dulzo
Technical Coordinator	Kimball Williams

Chapter: 02 (VT06) Vehicular Technology S

Chair	
V-Ch	SHASHANK KAMTHAN
Secretary	Malcolm Lunn
Treasurer	
Past Chair	Mohamad Berri
Technical Coordinator	Kimball Williams

Chapter: 03 (AES10) Aerospace and Elect

Chair	Philip Hall
V-Ch(AE Soc)	
V-Ch(Com Soc)	WILLIAM ASHE
Secretary	Robert Blazewicz
Treasurer	Jeffrey Dulzo
Past Chair	Malcolm Lunn
Technical Coordinator	Joseph Giachino

Chapter: 04 "Trident" (AP03) AP03 Antenn

Chair	
V-Ch-Tech (AP Soc)	Anthony Grbic
V-Ch-Tech (ED Soc)	Rebecca Peterson
V-Ch-Tech (MTT Soc)	Chung-Tse Wu
-Tech (Photonics Soc)	Somin Eunice Lee
h-Local Arrangements	Chung-Tse Wu
Secretary	David Trescott
Treasurer	Yang Liu
Webmaster	
Past Chair	Lora Schulwitz
Technical Coordinator	

(Section Elections: Continued)

Chapters 5 – 11:

Chapter: 05 (C16) Computer Soc	
<i>Chair</i>	Subramanian Ganesan
<i>V-Ch: Tutorial and</i>	Ashok Prajapati
<i>V-Ch: Software</i>	Sharan Kalwani
<i>V-Ch: Student</i>	Nizar Alholou
<i>V-Ch: Automotive</i>	S Ramesh
<i>Secretary</i>	Rama Gottumukkula
<i>Treasurer</i>	Basil Sherlund
<i>Webmaster</i>	Mark Ciechanowski
<i>Past Chair</i>	
<i>Technical Coordinator</i>	Tayfun Ozdemir
Chapter: 06 (GRS29) Geosciences and Rem	
<i>Chair</i>	Leland Pierce
<i>V-Ch</i>	Adib Nashashibi
<i>Secretary</i>	Mostafa Zaky
<i>Treasurer</i>	Michael Benson
<i>Past Chair</i>	Adib Nashashibi
<i>Technical Coordinator</i>	
Chapter: 07 (PE31) Power Engineering Soc	
<i>Chair</i>	David Mindham
<i>V-ChTech Activity</i>	Binaya Joshi
<i>V-Ch(Pwr Eng)</i>	Looja Tuladhar
<i>V-Ch(Ind Appl)</i>	Michael Anthony
<i>Secretary</i>	Koustubh Banerjee
<i>Treasurer</i>	Chris Nelson
<i>Past Chair</i>	Ian Hutt
<i>Technical Coordinator</i>	
Chapter: 08 EMC (EMC27) Electromagnetic C	
<i>Chair</i>	Scott Lytle
<i>V-ChProf Activity</i>	Akio Fujimaki
<i>V-ChTech Activity</i>	Candace Suriano
<i>V-Ch-Com</i>	Scott Lytle
<i>V-ChMarketing</i>	Steve Tomba
<i>V-ChMkt-EMCFest</i>	Robert Neff
<i>Secretary</i>	Steve Tomba
<i>Treasurer</i>	Matthew Feusse
<i>Past Chair</i>	Dennis Barberi
<i>Technical Coordinator</i>	
Chapter: 09 (IE13) Industrial Electronics Soc	
<i>Chair</i>	
<i>V-Ch(IndElect)</i>	Mengqi Wang
<i>V-Ch(Pwr Elect)</i>	Mengqi Wang
<i>Secretary</i>	
<i>Treasurer</i>	
<i>Past Chair</i>	Brian Peaslee
<i>Technical Coordinator</i>	Jeffery Mosley
Chapter: 10 (TEM14) Technology and Engine	
<i>Chair</i>	Raymond
<i>V-Ch</i>	Mark Robinson
<i>Secretary</i>	David Werden
<i>Treasurer</i>	David Werden
<i>Past Chair</i>	Mark Robinson
<i>Technical Coordinator</i>	Kimball Williams
Chapter: 11 (EMB18) Engineering in Medicin	
<i>Chair</i>	Maurice Snyder
<i>V-Ch</i>	Mohammad Mehrmohammadi
<i>Secretary</i>	
<i>Treasurer</i>	Ling Zhuang
<i>Past Chair</i>	Maurice Snyder
<i>Technical Coordinator</i>	Joseph Giachino

Chapters 12 – 17:

Chapter: 12 (CS23) Control Systems Soc	
<i>Chair</i>	Haotian Wu
<i>V-Ch</i>	Rajeev Verma
<i>Secretary</i>	
<i>Treasurer</i>	
<i>Past Chair</i>	Rajeev Verma
<i>Technical Coordinator</i>	Yang Liu
Chapter: 13 (E25) Education Soc	
<i>Temp Chair</i>	Richard Johnston
<i>V-Ch</i>	Kenji Aono
<i>Secretary</i>	
<i>Treasurer</i>	
<i>Past Chair</i>	Kenji Aono
<i>Technical Coordinator</i>	Tayfun Ozdemir
Chapter: 14 (RA24) Robotics And Automat	
<i>Chair</i>	Javier Alcazar
<i>V-Ch</i>	Chaomin Luo
<i>Secretary</i>	Jonathan Berent
<i>Treasurer</i>	Chan-Jin Chung
<i>Past Chair</i>	ALI EYDGAHI
<i>Technical Coordinator</i>	Jeffery Mosley
Chapter: 15 (NPS05) Nuclear Plasma Scienc	
<i>Chair</i>	David Trescott
<i>V-Ch</i>	Nicholas Jordan
<i>Secretary</i>	
<i>Treasurer</i>	Juliusz Kruszelnicki
<i>Past Chair</i>	David Trescott
<i>Technical Coordinator</i>	Kimball Williams
Chapter: 16 (CIS11) Computational Intellige	
<i>Chair</i>	Chaomin Luo
<i>V-Ch(CI Soc)</i>	Robert Adams
<i>V-Ch(SMC Soc)</i>	Ling Zhuang
<i>Secretary</i>	Xinhua Xiao
<i>Treasurer</i>	Xinhua Xiao
<i>Past Chair</i>	Yi Lu Murphey
<i>Technical Coordinator</i>	Jeffery Mosley
Chapter: 17 (NANO42) Nanotechnology Cou	
<i>Chair</i>	Randy Boone
<i>V-Ch</i>	Junghoon Yeom
<i>Secretary</i>	Wen Li
<i>Treasurer</i>	Amar Basu
<i>Past Chair</i>	Wen Li
<i>Technical Coordinator</i>	Joseph Giachino

Student Branches:

University Of Detroit-Mercy: (STB00531)	
<i>Chair</i>	Adam Fuchs
<i>V-Ch</i>	Nayan Patel
<i>Secretary</i>	Mikael Paulik
<i>Treasurer</i>	Kaylah Berndt
<i>Faculty Counselor</i>	Chaomin Luo
<i>Mentor</i>	Jennifer Dukarski
<i>Mentor</i>	Brian Peaslee
<i>Mentor</i>	Don Bramlett
Michigan State University: (STB01111)	
<i>Chair</i>	Roderick Grant
<i>v-Ch</i>	Alexander Budd
<i>Secretary</i>	
<i>Treasurer</i>	
<i>Graduate Advisor</i>	Thassyo Pinto
<i>Faculty Counselor</i>	Premjeet Chahal
<i>Mentor</i>	Shiu Chan
<i>Mentor</i>	Philip Fanson
University Of Michigan-Ann Arbor: (STB011)	
<i>Chair</i>	Reid Turnbull
<i>V-Ch</i>	Eugene Zen
<i>Secretary</i>	Lucy Zhang
<i>Treasurer</i>	Kabir Singh
<i>Faculty Counselor</i>	Laura Balzano
<i>Mentor</i>	Haotian Wu
<i>Mentor</i>	Marcus Mojica
Wayne State University: (STB02251)	
<i>Chair</i>	Christopher Lopez
<i>V-Ch</i>	Akarshan Gulhane
<i>Treasurer</i>	Christopher
<i>Secretary</i>	TULASI PRIYA GUDAPATI
<i>ESFB Rep</i>	ali asadi
<i>Student Advisor</i>	Antonio Rossi
<i>Corp Com Ch</i>	Numra Jumani
<i>Web-Admin</i>	Michael Leone
<i>Seminar Coordinator</i>	Brandy Broadbent
<i>Faculty Counselor</i>	Matthew Nokleby
<i>Faculty Mentor</i>	Weisong Shi
<i>Mentor</i>	
<i>Mentor (On leave)</i>	Randall Safier
Lawrence Technological University: (STB035)	
<i>Chair</i>	Sai Gadde
<i>V-Ch</i>	Irfan Syed
<i>UG V-Ch</i>	Mohammed Jahed
<i>Excutive Coordinator</i>	Vinita Patil
<i>Secretary</i>	VAMSHI
<i>Secretary</i>	amar bajamal
<i>Treasurer</i>	Sri Venkateswarlu Perla
<i>Faculty Counselor</i>	Kun Hua
<i>Mentor</i>	Benjamin Sweet
<i>Mentor</i>	Don Price
Oakland University: (STB06741)	
<i>Chair</i>	Malek Jaradi
<i>Secretary</i>	Victoria Clark
<i>Treasurer</i>	Andres Jacoby
<i>Faculty Counselor</i>	DANIEL LLAMOCCA
<i>Mentor</i>	David Mindham
<i>Mentor</i>	Michelle Knight
<i>Mentor</i>	Daniel Aloï
<i>Mentor</i>	OSAMAH RAWASHDEH

University Student Branches:

Each of our University Student Branches conducts its own officer elections at a time of its own choosing. Each is listed in the Officer Roster for the convenience of members who wish to 'engage' with a Branch.

(Student Branches Continued)

Eastern Michigan University: (STB11091)	
<i>Chair</i>	Ivan Soepriatna
<i>Secretary</i>	Megan Pelzel
<i>V-Ch</i>	Tim Robinson
<i>Treasurer</i>	Eugene Lowe
<i>Faculty Counselor</i>	ALI EYDGAHI
<i>Mentor</i>	eliada ziraj
University Of Michigan-Dearborn: (STB9491)	
<i>Chair</i>	xiaohui zhao
<i>V-Ch</i>	Nevrus Kaja
<i>V-Ch</i>	Hussein Berry
<i>Public Relations</i>	Ahmad Hamdoun
<i>Communications</i>	
<i>Treasurer</i>	Nevrus Kaja
<i>Secretary</i>	MAOXU LIU
<i>Webmaster</i>	
<i>Activities Coordinator</i>	MAOXU LIU
<i>Faculty Counselor</i>	Stanley Baek
<i>Mentor</i>	Robert Severinghaus
<i>Mentor</i>	Kimball Williams

NOTE: An officer position followed by a 'blank' area highlighted in Yellow indicates a vacant position waiting for an IEEE volunteer to step forward.

Standing Committees:

Treasurer Activities:	
<i>Treasurer</i>	Basil Sherlund
<i>Asst Treasurer</i>	Xinhua Xiao
<i>Past Treasurer</i>	Harry Hill
Finance Committee:	
<i>Finance Committee Chair</i>	Nevrus Kaja
<i>Secretary</i>	David Mindham
<i>Treasurer</i>	Basil Sherlund
<i>Section Chair</i>	Robert Neff
<i>Section Chair-Elect (2018)</i>	Robert Neff
<i>Grant Coordinator</i>	
All Geo-Unit Treasurers:	
Technical Activities:	
<i>Chair</i>	Tayfun Ozdemir
<i>Secretary</i>	Yang Liu
<i>V-Ch</i>	Jeffery Mosley
<i>TC's (See each Geo-unit)</i>	
<i>Info Management Coord</i>	Kimball Williams
Education Committee:	
<i>Chair</i>	Chaomin Luo
<i>Secretary</i>	Malcolm Lunn
<i>STEM Coordinator</i>	Malcolm Lunn
<i>Temp V-Ch</i>	Benjamin Sweet
<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>Michigan STEM Liaison</i>	Lin Van Nieuwstadt
Student Activities:	
<i>Chair</i>	Nevrus Kaja
<i>V-Ch</i>	Akarshan Gulhane
<i>Secretary</i>	Anisa Bici
<i>Webmaster</i>	Tia Twigg
<i>Student Representative *</i>	MAOXU LIU
<i>Communication Coordinator</i>	Hesham Alghodhaifi
<i>Young Professionals Liaison</i>	Shradhdha Shah
<i>PACE Liaison</i>	Basil Sherlund
Student Branch Mentors:	
<i>Chair</i>	Don Price
<i>V-Ch</i>	
<i>Secretary</i>	
<i>Mentors (See each Branch)</i>	
Communications and Marketing Committee:	
<i>Chair</i>	Ravi Ngam
<i>V-Ch</i>	Basil Sherlund
<i>Secretary</i>	Shannon Ridley
e-Wavelength Productions:	
<i>Editor In Chief</i>	Nevrus Kaja
<i>e-Wavelengths Dvlp Coord</i>	Benjamin Doerr
<i>Technical Editor</i>	Malcolm Lunn
<i>e-Wavelengths ListServ Ops</i>	Christopher Johnson
<i>Activity Reporter</i>	Kimball Williams
<i>Publications Review</i>	James Woodyard
Electronic Media Communications:	
<i>Webmaster</i>	Scott Lytle
<i>Associate Webmaster</i>	
<i>Section Social Media Coord</i>	
<i>LinkedIn Page Coord</i>	
<i>Facebook Page Coord</i>	
<i>Twitter Page Coord</i>	
<i>ListServ Operations Coord</i>	Harry Hill
<i>OnLine-Community Coord</i>	Majeed Nader
Event Communications and Marketing:	
<i>Sponsorships</i>	Randy Boone
<i>Event Publications</i>	Ravi Ngam
<i>Asst Event Publications</i>	
<i>Media Relations</i>	

Event Operations:	
<i>Secretary</i>	David Mindham
<i>Asst Secretary</i>	Shannon Ridley
<i>Spring 2016 Conf Chair</i>	Ravi Ngam
<i>Fall 2016 Conf Chair</i>	Nevrus Kaja
<i>Spring 2017 Conf Chair</i>	Robert Adams
<i>Fall 2017 Conf Chair</i>	
<i>Humanitarian Tech Conf</i>	Harpreet Singh
Membership Committee:	
<i>Chair</i>	Aisha Yousuf
<i>Secretary</i>	Shannon Ridley
<i>Awards Coord</i>	
<i>Fellows Search Coord</i>	William Moylan
<i>New Member Relations</i>	Shannon Ridley
<i>Member Engagement</i>	Charles Albrecht
<i>Member Elevation</i>	
<i>Member Retention</i>	
<i>Student Elevation & Retention</i>	Mosad Alkhatami
Nominations & Appointments Committee:	
<i>Chair</i>	Kimball Williams
<i>V-Ch Elections</i>	Akarshan Gulhane
<i>V-Ch Appointments</i>	Yiming Deng
<i>Secretary</i>	
PACE Activity:	
<i>Chair</i>	Basil Sherlund
<i>Secretary</i>	
<i>PACE Event Coord</i>	
Affiliation Activities:	
<i>Chair</i>	Basil Sherlund
<i>Government Relations</i>	David Mindham
<i>Academic Relations</i>	
<i>Industrial Relations</i>	Randy Boone
<i>ESD Liaison</i>	Kimball Williams
Nearby Section Liaisons:	
<i>Chair</i>	Harry Hill
<i>N Michigan Section Liaison</i>	
<i>Toledo Section Liaison</i>	
<i>Windsor Section Liaison</i>	
<i>W Michigan Section Liaison</i>	

Participation as an officer in one of the Standing Committees does not require membership in one of the Geo-unit supporting Societies or Affinity Groups. This is why it is a great opportunity for Students and general members to become involved, and practice the leadership skills that only come through experience and repetition.

If you have not volunteered with a committee in the past, I encourage you to consider the Committees and positions (in yellow) shown above as a way to get started.

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Future Cities Competition:**IEEE-SEM SECTION SPECIAL AWARD JUDGES NEEDED FOR JANUARY 2017 FUTURE CITY COMPETITION**

by Don C. Bramlett, PE, LSMIEEE
- IEEE/SEM Advisor

This is the seventeenth 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 2017 Michigan Regional Future City Competition will be on Monday, January 23, 2017 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.

This is one of the premier pre-university programs for energized middle school 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 my cell
(313) 608-6223, or at home at
(734) 591-1452 or by email at
d.bramlett@ieee.org.

db

Science Fair Judges:

SEM MEMBERS NEEDED AS SCIENCE FAIR JUDGES

By Don C. Bramlett, PE, SMIEEE

Please volunteer to serve on the elite panel of judges for the professional awards being sponsored by the Southeastern Michigan Section of the Institute of Electrical and Electronics Engineer, Inc. (IEEE-SEM) at the 60th Annual Science and Engineering Fair of Metropolitan Detroit (SEFMD).

This is the 22nd straight year that IEEE-SEM has provided judges and sponsored professional awards for projects associated with electrical, electronics, computer engineering and IEEE related fields.

Judging will be on **Wednesday March 15, 2017** at the Science Fair, located at Cobo Hall in downtown Detroit. **The Science Fair will be in the Michigan Hall this year on the Lower Level or Level (0).** Please plan your arrival for **between 7:45 and 8:30 AM** at the Science Fair, to enjoy some free coffee and muffins.

We will be near the Professional Awards Judging Desk (front of hall near the muffins and coffee); bypass the normal judge check-in as you enter the front of Michigan Hall.

As last year, IEEE-SEM plans to provide judging for both the Junior (5th – 7th grade) Division and the Senior (High School) Division.

It is anticipated that the IEEE-SEM awards judging will start at **8:45 AM and be completed by 11:30 AM**. IEEE-SEM will tentatively make two Grand Awards, including framed certificates and cash prizes, and several Outstanding Achievement Awards, consisting of framed certificates.

There has been a major change in the categories of projects. There is no longer simple Engineering, Computer Science, and Physics categories. This year some projects in the IEEE related fields may be found in the categories of Systems Software, Robotics & Intelligent Machines, Physics & Astronomy, Environmental Engineering, Engineering Mechanics, Energy: Physical, Energy: Chemical, Embedded Systems, etc. There are also a larger than normal number of team projects.

Beside schools in Wayne, Oakland and Macomb counties, schools in the Ann Arbor and surrounding counties will participate in the Science Fair. So this year will be a real interesting experience judging the Junior Division and Senior Division projects.

The planned routine will be to separate into small groups at first and quickly roam assigned sections of the project displays to identify those projects related to electrical, electronics and computer engineering that are worthy of further review by the panel of IEEE-SEM judges.

It is anticipated that the number of relevant projects will be rather small. We will then form one team of judges to evaluate at a greater depth the selected projects. Based on the number and quality of the selected project displays, the judges may choose to use the supplied Project Evaluation and Judging Forms to grade the projects in each Division or to use a less formalized process, as deemed appropriate.

Please direct any questions you may have to me at home (734) 591-1452, or on my cell phone at 313-608-6223; or you may contact me at my e-mail address d.bramlett@ieee.org.

Look forward to seeing you **Wednesday, March 15 at the Science Fair at Cobo Hall.**

Parking is available at the Cobo Hall Roof Parking site. Free coffee and muffins are available in the morning.

db

Officer Training:

Officer training is intended to help volunteers in assuming their duties in a Geo-unit or in a Standing Committee. The target audience is officers with little or no IEEE experience.

As such it begins with a 'broad brush' coverage, or 'Orientation' then focuses on the specifics of officer functions, team operations, financial concerns for Geo-units and finally the inter-related operations of the multiple functional teams that make up an IEEE Section.

Training Schedule:

Training will be conducted as 'virtual' classes using 'Gotomeeting' and will take place in two sessions for each topic. Each class will be broadcast at Noon on Saturday and repeated the following Sunday at 2PM. By using weekends, and two opportunities, we hope to be able to provide training to all our officers.

Noon	2 PM	Topic
1/14/2017	1/15/2017	Officer Orientation:
1/21/2017	1/22/2017	Officer Functional Training:
1/28/2017	1/29/2017	Officer Team Operations:
2/11/2017	2/12/2017	Geo-unit Financial Operations:
2/18/2017	2/19/2017	Section Level Cross Team Operations:

Specific invitations will be sent to all officers before each broadcast to 'remind' of the class, and encourage attendance.

kw

VoPPT Training Modules:

Officers, both old and new are encouraged to take advantage of the on-line training modules available on the IEEE SEM website,
<http://sites.ieee.org/sem/>.

Navigate to the "About SEM" page then Select the button labeled '**Training Material**' in the left hand panel of buttons under the header: '**SEM Tools/Links**'..

This will place you in the Training page. We suggest the Voice over Power Point module #46 shown as "**Virtual Training Plan**" be first on your list in order to get an idea of the scope of the training modules and their recommend sequence.

The training modules are each about 3 to 5 minutes long and grouped into blocks of 20-30 minutes in length so that they can be easily worked into a daily routine.

Most officers who progressed through the entire sequence of modules indicated they can be easily completed in a 2 to 3 week-time frame.

kw

'ZF Cares' Supports STEM:

Early in 2016 one of the officers of Chapter 8, Akio Fujimaki, advised us that his company, ZF and its humanitarian group "**ZF Cares**" was interested in sponsoring any worthy activity and he thought that out STEM classes might fall within the parameters of their guidelines.

In July of 2016 we submitted a grant proposal to ZF Cares in support of an expanded "Fundamentals of Electricity" STEM class, to be followed by a "Micro-Computer Expansion & Programming" class. In all, the classes were designed to be two 10 week class efforts, to be held at the Dearborn Heights Caroline Kennedy Library.



In September we received a letter from ZF Cares letting us know that our STEM class proposal had been awarded a grant of \$3K for materials in support of our proposed classes in 2017. While the actual funds were received as a check, and have been deposited in the Section Concentration Banking account by Basil Sherlund, our Section Treasurer, a symbolic 'giant' check was presented to the Section at the SEM 2016 Fall Conference.

Electrical STEM:

On Monday, January 23, 2017 the first 2017 STEM (Science, Technology, Engineering, and Mathematics) classes will begin at the Dearborn Heights Caroline Kennedy Library. Geared to grades 5-12, these classes will introduce students to the "**Fundamentals of Electricity**".

Classes will be start at 7 PM each Monday, and conclude at 8:30. Parents are encouraged to attend the first "Orientation" class on January 23 along with the students to collect the class schedules and the pre-class viewing assignments. (Each class will be 'supported' by a relevant Khan Academy on-line training module which students will be asked to view before class.)

The overall class schedule is shown below:

1/23/2017	Orientation & Registration
1/30/2017	Basics of Static Electricity
2/6/2017	Direct Current and Batteries
2/13/2017	Direct Current circuits and components
2/20/2017	Permanent Magnetics and magnetic fields
2/27/2017	Electromagnetics and magnetic forces
3/6/2017	Frequency, Alternative Current and Electrical Safety
3/13/2017	Frequency and Wavelength
3/20/2017	Radio Frequency and Crystal radios
3/27/2017	Resonance and resonant circuits
4/3/2017	Radio Astronomy

All classes will be held at the

Caroline Kennedy Library
24590 George St.
Dearborn Heights, MI 48127
313-791-3800

To register for the classes, phone the library, or drop by and register at the front desk.

Follow on classes:

The ZF grant has allowed us to expand the STEM program to provide follow on classes for students who complete the "Fundamentals of Electricity" class. The next class supported by the ZF grant will be: "**Micro-Computer Expansion and Programming**."

This class will use 'Arduino' micro computers with expansion boards to allow students to experiment with the circuits they have constructed in the "Fundamentals" class and to interface those with the computers, alternative sensors, and a variety of actuators.

Simple programming language will be used to develop applications for learning and play, depending on the student's interests.

Future classes are in planning now including Amateur Radio License classes (including learning the Morse Code), and Soldering Circuits, to teach the safe use of soldering tools while students build their first low cost, low power, Amateur Radio station.

We hope to see you at one of the STEM classes either as a student, or as a volunteer teacher/instructor.

kw

Mark Steffka Honored:

Mark Steffka receives award for engineering & educational advancement

(Reprinted from the December 5, 2016 J/U/M-D College of Engineering and Computer Science, Faculty research)

When Mark Steffka was a youth, his room was filled with wires, circuits and hardware.

"There was typically stuff lying everywhere. You could hardly walk without tripping over something," the electrical and computer engineering lecturer said with a laugh. "But my parents were still very supportive. My dad would get me batteries, electrical motors, whatever I was looking for."

Then, as a young teen, he built his own HAM radio. "From my room in Southgate, I picked up a short-wave station in Ecuador. Then I found the BBC, broadcasting from London," he said. "As I listened to these stations from around the world, I noticed that some were louder than the others and sometimes I'd hear a little bit of noise or interference. I was fascinated by what was causing the difference, and how these waves were bringing all of this information into my room."

As an adult, Steffka—who works as an expert in electromagnetic compatibility (EMC) for General Motors Company—still focuses on how those waves provide communication. But today he is helping revolutionize the industry and teaching UM-Dearborn students along the way. The goal of EMC is to correct unwanted effects—like electromagnetic interference, static and equipment damage—in an environment where electromagnetic energy is generated.

He's the guy who—in the 1990s when cars started relying on computer technology—would make sure that FM/AM radios worked without static from all of the electrical components causing interference when they transmitted waves.

And he's one of the first who taught UM-Dearborn students about the emerging EMC field on campus when Electrical and Computer Engineering Professor Emeritus and former Associate Provost M. Shridhar was seeking out a professional to add



electromagnetic interference suppression knowledge into the ECE curriculum.

"Mark did an outstanding job introducing EMC to our undergraduate students and subsequently offered the graduate course on EMC," said Shridhar, who said Steffka also assisted with getting the EMC program started by helping secure a \$10,000 grant from the Institute of Electrical and Electronics Engineers (IEEE). "Currently, the course EMC 319—which Mark still teaches—is one of the most popular electives in our electrical engineering program. Mark is consistently rated as an outstanding professor."

For his dedication to students and to his field, Steffka ('81 B.S.E.) was recently awarded the 2016 **Laurence G. Cumming Award for Outstanding Service**, the *IEEE EMC Society's highest distinction*.

"I was incredibly honored and very surprised," said Steffka. "I was always interested in electrical components and radio waves, but I could have never imagined anything like this happening."

Steffka, who applied to only UM-Dearborn for his undergraduate education, said he was impressed by the engineering co-op program. But, once he got here, there was something else that motivated him—a campus HAM Radio.

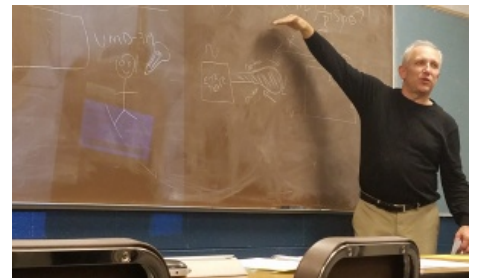
"My second semester on campus, I saw a giant antenna on top of the Engineering Lab Building (ELB). I followed the wire all the way around the building until I could see where it went in. There was a small room that had HAM Radio equipment. I ended up spending a lot of time there," he said. "My first co-op was with a company that made short-wave transmitters, Collins Radio in Iowa. I believe I got that job because I was familiar with their product—the HAM Radio on campus was branded Collins Radio. That gave me my start."

With his 30-plus year career researching and designing aerospace, military and

automotive wave-based equipment—one where he's been granted several United States' patents for EMC-related inventions—Steffka is eager to share what he's learned with the next generation of professionals.

Steffka has had authorship of papers and presentations for technical conferences. He's written a book. And he was selected as an IEEE Distinguished Lecturer, where he was able to speak at conferences around the world.

"I have been so fortunate to be able to contribute back to my chosen profession," he said. "I'm glad I also get the opportunity to contribute on this campus—right where



I started."

After teaching his Thursday evening class, standing in an ELB classroom where he once was a student, Steffka reflected on how fortunate he was to have seen the EMC industry emerge and become an increasingly important part of daily life, and to be able to have an impact on the education of others in the field.

"The whole aspect of wireless communication systems integration into all electrical or electronic devices is coming soon. As an engineer, being able to know how these work together is critical," he said.

The industry change is even shown in class enrollment. In 2000, Steffka had six to eight students a semester in EMC 319; now he has more than 30 in his lecture and lab-based course.

"This university was ahead of the curve when they began offering courses on the subject 16 years ago and we are ready to prepare our students for what the future brings," he said. "As I tell my students, I went to this campus and it gave me skills that I still use today. I want to give them all the tools they can have to be successful, to serve them for the rest of their lives."

Amateur Radio & EMC:

Reprint - Courtesy November 2016 QST



Second Century

Tom Gallagher, NY2RF — tgallagher@arrrl.org
ARRL Chief Executive Officer

The Noise Frontier

“Hams can be instrumental in identifying and fighting the advances of this growing threat.”

Earlier this year, something extraordinary took place in Evanston, Illinois. As Rick Lindquist, WW1ME, reported in the “Happenings” column in the October 2016 issue, wireless vehicle key fobs, cell phones, and other wireless electronics stopped working. The problems were localized in the 600 block of Evanston’s Dempster Street, and they were almost exclusively confined to vehicles and cell phones located in that vicinity. Car owners could not open their vehicles or, in certain cases, even start them. To add to the frustration, some cell phones were also inoperable, so victims couldn’t even call for help. But these exotic occurrences with wireless devices were not the extraordinary event.

The Evanston Police Department initially contacted the Federal Communication Commission’s Chicago office for help, which resulted in the FCC referring them to the automobile manufacturers. Based on what the FCC knew about the situation, their response may not, in fairness, seem so unreasonable. For the Evanston Police, however, concerned about matters even more serious than stalled vehicles — namely, nonfunctioning cell phones and potential disruption of police communication systems — their next call was directed to ARRL Headquarters and ARRL Lab EMC specialist Mike Gruber, W1MG. Gruber called on ARRL Central Division Director Kermit Carlson, W9XA, who also volunteers as the ARRL EMC Committee Chairman. Carlson used a noise signature receiver that is part of Gruber’s arsenal of tools at the ARRL Lab, and together they were able to identify a strong interference source — something like a *nail* in a haystack — located near the center of the affected area. Accomplishing this was not quite so easy as a glib retelling would have you believe: Mike is an experienced interference bloodhound, and Kermit is an accomplished Engineering Physicist.

What’s extraordinary about the mystery in Evanston: the police called *us*. They asked for our help, and the League mobilized to assist in analyzing and solving a thorny problem. We should be as flattered by their outreach as we are proud of the results. First responders frequently call for our assistance in times of disaster, and in the case of Evanston, there is a certain man-bites-dog aspect to the story. It emphasizes the point that Amateur Radio serves the community in many, and sometimes unfamiliar, ways.

But there has been pushback from members of our community who assert that this kind of work is not our remit. “We are not in the ‘business’ of solving every interference case that arises in the country,” said one radio amateur in a recent posting. I disagree, and I find the comment frankly astonishing. It is the policy of ARRL to defend our spectrum from all adversaries, deliberate or random, from all consequences, intended or not.

Ed Hare, W1RFI, the head of the ARRL Lab, has been warning

all of us for years about the consequences of a pernicious, pervasive, rising noise floor that, left unchecked, will swallow up our spectrum just as quickly as the common carriers that are eyeing our real estate. At W1AW, the noise floor sometimes rises to S-7 levels during the day.

The cause of the rising noise floor can be, at least in part, attributed to sources like the one identified in Evanston — in that case, an errant neon light power supply. But noise is not limited to neon lights: a wide variety of switching mode power supplies for lighting and other applications are flooding the market. These devices are cheap, powerful, broadband, sometimes non-compliant RF generators. And their harmful effects are cumulative over time: as more and more offending devices are sold and installed, the noise becomes more intense and diffuse while the public’s investment in noise generating equipment becomes larger and therefore more difficult to unseat.

In one respect, we are fortunate. The noise problem is growing so quickly that it is impacting commercial business. When commercial interests are threatened, you can expect a Category 5 response. The broadcast industry, especially AM broadcasters, are taking notice of its impact on their service areas. That is why ARRL, which has long enjoyed a relationship with broadcasters, is working closely with the Society of Broadcast Engineers (SBE) and the National Association of Broadcasters (NAB). We have common interests in beating back the rising tide of noise. And our work with SBE and NAB is predated by Ed Hare’s longstanding relationship with the Institute of Electronic and Electrical Engineers, where they have labored long and hard to establish noise standards and to map noise sources. Noise is a new frontier, and we must take it seriously.

I am hopeful in the future for support from the commercial wireless sector. Perhaps it will take note that in Evanston, not only did cars fail to start, but cell phones didn’t operate, either. While commercial wireless is busy measuring our spectrum for curtains, rugs, and furniture of its own, I trust it will appreciate how quickly the value of spectrum vanishes when immersed in noise.

It’s only fair to note that the FCC did dispatch a field engineer to Evanston to size up the problem. That’s a generous gesture in this age of constrained budgets. We ought to be grateful.

I was told his car wouldn’t start, either.

73,

Tom Gallagher NY2RF

QST® — Devoted entirely to Amateur Radio www.arrrl.org November 2016 9

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Other Coming 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.

SEM Web Calendar:

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

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

SEM Web Meetings:

<http://sites.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

However, since IEEE members tend to have eclectic interests, we want to give everyone a heads up for some of the non-IEEE events that may be of interest.

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 the particulars to
k.williams@ieee.org

An announcement may be placed in the newsletter.

Links:**Michigan Institute for Plasma Science and Engineering:**

Seminars for the 2015-2016 academic year:

<http://mipse.umich.edu/about/seminars.htm>.

Below are links to local SEM Clubs engaged in technical hobbies as well as links to sites that may be useful for locating clubs in the area.

Amateur Radio Clubs in Southeastern t Michigan

(This is a fairly comprehensive listing of all the 'Ham' clubs in SEM.)

<http://www.wa2hom.org/ham-radio-clubs-in-se-michigan/>

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/eaa-chapters/find-an-eaa-chapter>

Robots

<http://therobotgarage.com/about-us.aspx>

Science Fiction Conventions

<http://www.conclavesf.net/>

Mad Science

<http://www.madscience.org/>

ESD PE Review Class

www.esd.org

Makers Faire:

<http://www.thehenryford.org/events/makerFaire.aspx>

Executive Committee

The SEM Executive Committee is the primary coordination unit for Southeastern Michigan (SEM) IEEE operations. The basic organization chart below shows the 2015 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://sites.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 David Mindham, the section secretary at: dmindham@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

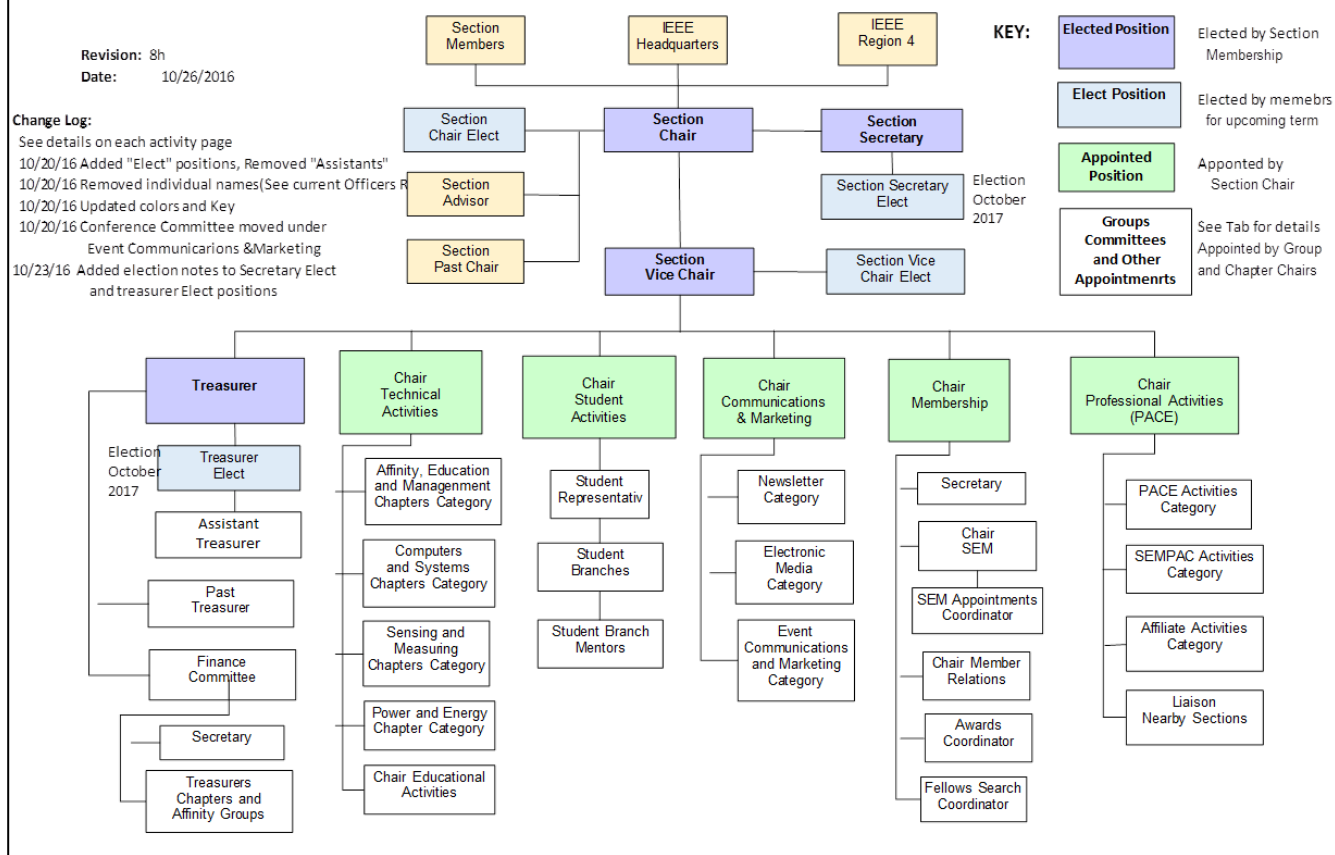
other chapters. In order to communicate the meeting dates of all the chapters, affinity groups etc., to our members to facilitate their attendance, leaders of the groups are requested to send meeting information to our webmasters for posting on section’s calendar.

More detailed information on meetings may be found by using the IEEE meetings site. This may be found through the IEEE SEM Website: <http://sites.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.

David Mindham - SEM Secretary

Current Organization - IEEE Southeastern Michigan Section (SEM)



Download the complete SEM Organization Chart, in PDF format, from the SEM Website at: www.ieee-sem.com. Then, click on “About SEM” Tab, followed by, click on “Current Officers”

ExCom Meeting Schedule:

Below is the 2017 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 the meetings. Information on the January Face to Face Meeting will be sent out once the venue is confirmed. Please mark your calendars for the meeting.

January 11, Wednesday, **Face to Face**, 5:30 – 8:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42547

February 2, Thursday, Teleconference, 12:00 – 1:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42548

March 1, Wednesday, Teleconference, 12:00 – 1:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42549

April 6, Thursday, **Face to Face**, 5:30 – 8:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42551

May 3, Wednesday, Teleconference, 12:00 – 1:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42552

June 1, Thursday, Teleconference, 12:00 – 1:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42553

July 12, Wednesday, **Face to Face**, 5:30 – 8:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42558

August 3, Thursday, Teleconference, 12:00 – 1:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42554

September 6, Wednesday, Teleconference, 12:00 – 1:00.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42555

October 5, Thursday, **Face to Face**, 5:30 – 8:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42559

November 1, Wednesday, Teleconference, 12:00 – 1:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42556

December 7, Thursday, Teleconference, 12:00 – 1:00 P.M. https://meetings.vtools.ieee.org/feed/meeting_ical/42557

David Mindham
SEM Secretary

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

kw

Section Mission & Goals**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 with 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 (...**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.

SEM Monthly Meetings**Scheduled Meetings:**

The regular meetings of the SEM Leadership (Executive Committee) are scheduled well in advance to allow everyone to place them in their personal planning calendars, and then defend those dates against encroachment. (*Not always possible.*)

Two types of Monthly meetings are normally scheduled:

Monthly Teleconference / WebEx as well as:

Quarterly Face-to-Face (F2F). See schedule on the page above:

Note: All IEEE meetings are 'Open' for all members to attend.

The only caveat is that you please register using the specific meeting form on the vTools site at:

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

Registering will ensure there is sufficient space, refreshments and support for attendees.

Teleconference Schedule
(held from 12-1 p.m.):

F2F Meeting Schedule:

More information for F2F meetings will be emailed to all officers, (and any members requesting the schedule), in a timely manner before the meeting dates.

Contact **David Mindham** the SEM Section Secretary at: dmindham@ieee.org for more information.

Additional information may be found at (<http://sites.ieee.org/sem/>).

The links to the SEM Facebook or LinkedIn pages on the SEM website may also be checked for updates.

All the normally scheduled meetings of each of the other section chapters, affinity groups etc. are listed each month in the vTools area of our SEM website at:

http://ewh.ieee.org/r4/se_michigan/calendar1.php

The information is for:

Standing Committee Meetings
Affinity Group Meetings
Technical Chapter Meetings
University Student Branch Meetings

Calendar Schedule:

Meetings are also announced on the SEM Calendar web page

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

(Select the "SEM Calendar" button in the top row.)

Note: Often meetings of the Executive Committees of Chapters and Affinity Groups (and standing committees, of course) are listed only in the SEM Calendar page, since it is felt that most members would not wish to sit through administrative meetings.

However, if this type of meeting is just your 'cup of tea', then contact the officers of the unit that is conducting the meeting, and ask to be 'linked' into their teleconference, SKYPE, Google Hangout, or WebEx meeting. They will be happy to have you as a participant.

Many volunteers become interested in section activities when they get a chance to attend a monthly meeting and 'peek under the hood' to find out how the machinery of the section actually runs. It can be a rewarding experience.

David Mindham
SEM Section Secretary.
dmindham@ieee.org

Editors Corner

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

Comments and suggestions may be sent to the editor at

k.williams@ieee.org. We also recommend a cc to the chair of the Communications and Marketing Committee, Ravi Nigam at: rnigam154934mi@comcast.net.

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.

newsletter alive and lively by providing alternative points of view.

Review:

Each month Jim Woodyard takes time to review the current issue and try to keep us from too many errors of both English and content. Jim likes to work in the background but, a special thank you is deserved for his continuous efforts and dedication to the quality of the publication. Thank you Jim!

Editors:

We are always looking for members interested in helping to edit the newsletter. The process is always more fun with more members to share the duties, and help keep the

Join the Team:

If you feel you might like to join the team, or would like to train with us, 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	GOLD Award
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://sites.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”.

SEM On Line Community

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

Section Officers

Section Chair
Robert Neff

Section Secretary
David Mindham

Section Vice-Chair
Liang Xi Downey

Section Treasurer
Basil Sherlund

Standing Committees:

Section Adviser
Don Bramlett

Chair Communications & Marketing
Ravi Nigam

Chair Educational Activities
Chaomin Luo

Chair Finance
Nevrus Kaja

Chair Membership
Aisha Yousuf

Chair Nominations & Appointments
Kimball Williams

Chair Professional Activities
Basil Sherlund

Chair Student Activities
Nevrus Kaja

Student Representative
Maoxu Liu

Chair Technical Activities
Tayfun Ozdemir

Past Section Chair
Kimball Williams



IEEE Southeastern Michigan

Visit Us on the Web at:

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

Leadership Meetings

All IEEE members are welcome to join us at any regularly scheduled meeting:

Advertising Rates

SEM Website & Newsletter
Advertising Rates / Month:

Our readers specify & purchase a wide range of electronic components, equipment and services.

Our sponsors come from industry, education, and nonprofit organizations.

Full page \$500,

Half page \$250

Quarter page \$125,

Eighth page \$65.

SEM Executive Committee Monthly Teleconferences:

- 1st Wednesday or Thursday of Each Month @ Noon
- Check the Section Web Calendar at:
<http://sites.ieee.org/sem/sem-calendar/>
(Select the "SEM Calendar" button in the top row.)

SEM Executive Committee Face-to-Face Meetings:

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

SEM Standing Committee Meetings:

SEM Affinity Group Meetings:

SEM Technical Chapter Meetings:

SEM University Student Branch Meetings:

- Meeting schedules are announced on SEM Web Calendar
<http://sites.ieee.org/sem/>
(Select the "SEM Calendar" button in the top row.)
- Registration for all at:
<https://meetings.vtools.ieee.org/main>