



Wavelengths

Volume 54 – Issue 06
June 2014

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Wavelengths Newsletter is produced by IEEE volunteers and published by IEEE Southeastern Michigan (SEM) Section (<http://www.ieee-sem.org>) for the Section members.

Newsletter website:
http://ewh.ieee.org/r4/se_michigan/newsletter
Email: wavelengths@ieee-sem.org

Section Chair's Message

June Message:

Memorial Day is a special Holiday in America because we honor our military service members and their families. We honor the living and the deceased for their sacrifices to preserve our freedom. IEEE members have not only served but have been very instrumental in the technology of warfare and protection of our service men and women. Our IEEE members are also very involved in the medical innovations to save lives and care for the injured. We are all indebted to your dedication and contributions.

A memorial of our own is reported on page 4 of this newsletter. We are sad to report our past chair and friend, Dave Laurent, has passed away.

IEEE SEM and IEEE Region 4 received an award of appreciation as a Bronze Sponsor of the RoboFest 2014 supporting STEM education through autonomous robotics. Dr. CJ Chung, professor at LTU and an active IEEE SEM member, organizes this international competition. See the photos and a short write up on page 8.

Chapter 8's EMC Fest was a resounding success and is reported in detail on pages 2 and 3 of this newsletter.

Two of our members have just returned from the IEEE USA Conference in Rhode Island. **Basil Sherlund**, the SEM PACE Chair,



returned with many ideas that will forward our PACE activities as well as some funding ideas to support them.

Mark Steffka was there to receive the Jack Sherman Outstanding Member award...

While we plan to enjoy the summer months we need to be aware that our Fall Conference is just 4 or 5 months away. Chaitanya Setti has volunteered to be Co-Chair provided we can find a second Co-Chair to work with him and share the duties. Raju Brahmandhabheri' Conference Committee is a valuable resource and is ready to assist. Chairing a conference is a wonderful learning experience and great credential on your resume. Please consider participating as Chair or Co- Chair of our Fall Conference.

Robert Neff
IEEE SEM Section Chair
RLNeff1@gmail.com

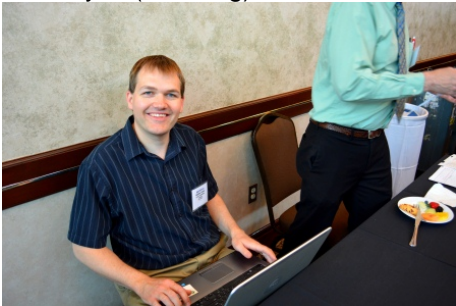
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EMCFest2014

The 2014 EMCFest was held on May 8, 2014 at the Canton Center in Canton, Michigan.



EMC (Electromagnetic Compatibility) is the Society focus for IEEE SEM Chapter 8. At this year's EMCFest, registrations were confirmed at the door by Chapter 8 Treasurer, Matt Feusse, aided by Chapter Chair, Scott Lytle (standing).



Registration:

Registrations for EMCFest2014 totaled 162 Attendees and 34 Vendors. Attendees were treated to a continental breakfast and an opportunity to network with each of the other attendees and the vendors who display EMC products and services.



Coffee & Bagels:



Breakfast:



Mark Steffka of the GM EMC Department and Adjunct Professor for U/M-Dearborn discusses the current state of EMC Education with Danny Odum, of Liberty, Texas, Chair of the 2013 EMC Symposium.

Program:

Our speaker, Doug Smith, presented a full program for the audience:



Doug Smith:

Topic 1: General lab measurements, how to avoid errors

Topic 2: Quick bench top emissions testing with demos on live circuits

Topic 3: Switching Circuit Noise: How to avoid EMC and operational problems from supplies, class D amps, PWM controllers, and more

Topic 4: Electrical Resonances in Physical Structures: A novel approach to solving EMC emissions and immunity problems



Doug held the audience spell bound during lectures and demonstrations that gave each topic a clear example of how to apply the techniques presented and how to avoid making errors and assumptions that can lead to false conclusions.



Lunch:

Lunch was provided to all attendees and many took advantage of the opportunity to both eat and take time to visit with our many vendors.

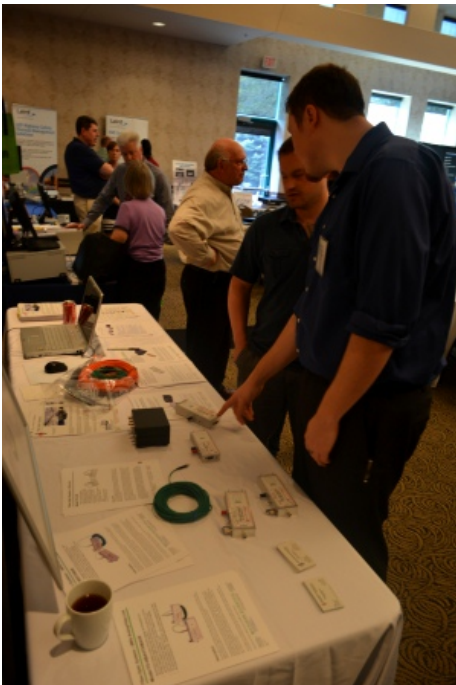
A few opted to dine 'al Fresca' at one of several tables set up outside and enjoy some Michigan weather, without snow.



Lunch in the sunshine:

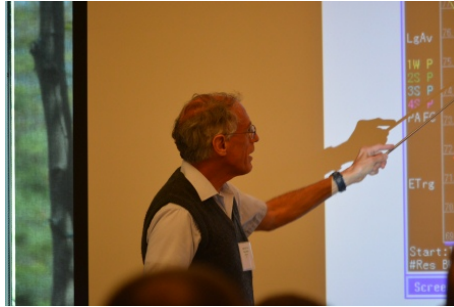


The vendors and their products and services were popular with all the attendees, and discussions continued through the lunch period without stop.



Vendor and Attendee networking:

The afternoon technical sessions continued with Doug leading us through methods to design power supply systems that serve their purpose without disruptive noise.



The final topic of electrical resonances in physical structures held everyone's attention as Doug discussed means of identifying resonance problems that contribute to overall system EMI.



Finally, Doug helped walk us through physical demonstrations that clearly illustrated each topic.



A few attendees could not tear themselves away from the vendors and engaged in detailed discussions of their specific technical needs and how the vendor products or services could solve their problems.

At the conclusion of the day, everyone gathered for the traditional ice cream social, and the presentation of door prizes, selected at random from the paid attendees.



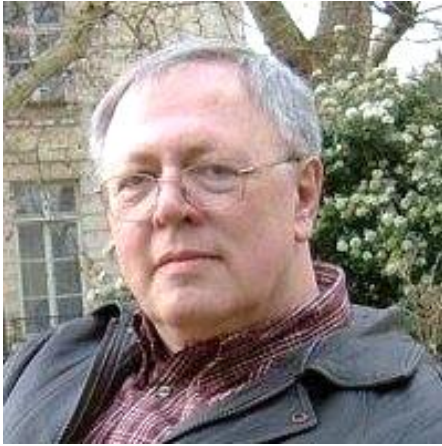
After the presentations concluded, Chapter 8 Chair Scott Lytle presented Doug with a letter letting him know that the Chapter will be donating \$200 in his name to the IEEE EMC-Society Presidents Memorial Scholarship fund.



We all thank Doug for a most enjoyable and helpful EMCfest and look forward to next year's event.

Memorial: David Laurent

It is with great sadness that we report the passing of one of our Past Section Chair's, **David Laurent**.



Dave Laurent, beloved husband of Susan, father of Marie Giselle, passed away on May 11, 2014. He was born in Paris, France and always cherished his French heritage.



David and his Family:

David's primary career was as a computer and software engineer and served as the Chair of IEEE Southeast Michigan Section in 2009.

During his tenure as our Chair Dave saw the initial planning for the 125th Anniversary of the founding of the Section (in 1886), the creation of the SEM Chapter Task Force, which has evolved into the Technical Activities Committee, the development of the

University Mentors which has become the Student Activities Committee, and the establishment of the Section Facebook page, which Dave initialized and set up himself.

In addition to IEEE, Dave also supported the interests and efforts of Doctors without Borders.



David with his daughter Marie-Giselle Laurent.

He enjoyed philosophical discussions and following the latest scientific discoveries and he loved to cook.



One of my many meetings with Dave took place at his home in Bloomfield Hills where Dave took great pleasure in cooking an excellent dinner, which we both enjoyed. We shared a good bottle of wine while we discussed the future of the Section, the direction of the development of computer hardware and software, and the state of rock music in America (David was

an avid Led Zeppelin fan.) and our families and pets. (David kept two dogs at the time, while ours were a 'family' to two ferrets, a cat and a dog.)

The memorial service for David was held on Saturday, May 17, 3:00p.m. at Kirk in the Hills, Bloomfield Hills, MI with a large group of David's family and friends in attendance. Interment will be at the family plot in France later in the summer.

Those of us who knew Dave and were his friends will miss his easy smile and joy in conversation about any topic that came to mind. Most of all, we will just miss having our friend there to share our lives.



Farewell Dave.

Welcome New Officers: Technical Activities Coordinators

The **Technical Activities committee** led by Doctor **Ali Eydgahy** is composed of experienced IEEE members who serve as ‘Mentors’ to help guide and encourage Chapters in



our Section to achieve their full potential.

Each of these officers work with the leadership of the individual Chapters and Affinity Groups (Units) in their

“Cluster” as a mentor to promote, encourage and ensure effective functioning and reporting.

In essence, they will serve as a ‘coach’ for the Unit officers.

Technical Activities Committee “Coordinators”:

<p>Cluster 1:</p> <p>Kimball Williams</p> <p>“Curmudgeon at large” for Southeastern Michigan Section.</p> <p>k.williams@ieee.org</p>		<p>Humanities Cluster:</p> <ul style="list-style-type: none"> • Consultants • Life Members • Women in Engineering • Young Professionals • Ch 10 Technology Management • Ch 13 Education
<p>Cluster 2:</p>		<p>Computers & Systems Cluster:</p> <ul style="list-style-type: none"> • Ch 1 Signal Processing / Circuits & Systems / Informaton Theory. • Ch 3 Aerospace & Electronic Systems / Communications. • Ch 5 Computers • Ch 14 Robotics & Automation • Ch 16 Computational Intelligence / Systems, Man and Cybernetics.
<p>Cluster 3:</p> <p>Joseph Giachino</p> <p>U/M – Ann Arbor Director of Technology Transfer</p> <p>giachino@umich.edu</p>		<p>Sensing Measurement Cluster</p> <ul style="list-style-type: none"> • Ch 4 Antennas & Propagation / Electron Devices / Microwave Theory & Techniques / Photonics. • Ch 6 Geosciences and Remote Sensing. • Ch 8 Electromagnetic Compatibility • Ch 11 Engineering in Medicine and Biology. • Ch 17 Nanotechnology
<p>Cluster 4:</p>		<p>Power & Energy Cluster:</p> <ul style="list-style-type: none"> • Ch 2 Vehicular Technology • Ch 7 Power Engineering / Industrial Applications. • Ch 9 Industrial Electronics / Power Electronics • Ch 12 Control Systems.

As you can see above, the Committee is still in the ‘building’ stage and we are actively looking for two more ‘seasoned’ volunteers with experience and an interest in particular to assist in helping to guide our **Computers & Systems Cluster**, and our **Power & Energy Cluster**.
If one of these positions appeals to you, please check out the Job

Description on the SEM On-Line Community at <http://sem.oc.ieee.org/>
. Search for the file: **Technical_Activities_Coordinator_Job_Description**
. Interested volunteers should fill in the form at: https://ieee.fluidsurveys.com/s/sem_committee/.

You will be contacted by a member of the Nominations and Appointments Committee to discuss the options and opportunities.

We look forward to hearing from you soon.

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Section Volunteer Options:

The Electronic Media Sub-Group of the **Communications & Marketing Committee** is looking for several new members who are willing to learn and grow into the following positions:

LinkedIn Page Coordinator
Facebook Page Coordinator
ListServ Operations Coordinator
On-Line-Community Coordinator

Each of these positions will be an active function with significant responsibilities to maintain and facilitate communications among our members.

Interested members should use the link below to indicate your interest, and the Nominations and Appointments Committee will contact you:

<https://ieee.fluidsurveys.com/s/sem/committee/?code=>

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Fall Section Conference :

IEEE Southeastern Michigan (SEM) Section is seeking a volunteer to lead and/or host the IEEE Southeastern Michigan Section 2014 Fall Conference.

Section Conferences are produced by the Southeastern Michigan Section with the intent to provide a variety of IEEE related opportunities.

The Southeastern Michigan Section executive members, in the form of the Conference Committee, will help the host to develop the technical program, speaker arrangements, arranging for posters, venue arrangements, marketing the event, managing registrations and publication of the Conference booklet.

If you are interested in leading the next SEM Conference, please contact the Chair of the Conference Committee: **Raju Brahmndhabheri**, bvraju212@yahoo.com

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LEARN EMC Summer 2014 Short Courses

LearnEMC Short Courses for June 2014

Electronic Systems Design for EMC Compliance

June 10-11, Detroit, Presented by Todd Hubing, *Early registration: April 7*

Computer Modeling Tools for Electromagnetic Compatibility

June 12, Detroit, Presented by Todd Hubing, *Early registration: April 7*

Information and registration: www.LearnEMC.com



Electronic Systems Design for EMC Compliance *(June 10-11, Detroit)*

Printed circuit board layout is often the single most important factor affecting the electromagnetic compatibility of electronic systems. This two-day course stresses fundamental board design concepts and tools to help reduce or eliminate electromagnetic compatibility and signal integrity problems. In this course you will learn to properly place components and route traces, as well as design effective power distribution and grounding strategies for both digital and mixed-signal boards.

Computer Modeling Tools for Electromagnetic Compatibility

(June 12, Detroit) This one-day course covers electromagnetic modeling codes, circuit solvers, rule checkers, analytical modeling tools, web-based calculators and apps. Examples are provided demonstrating the application of various modeling tools to real-world EMC design problems. Upon completion, you will be aware of available tools for EMC design and analysis of electronic systems and be able to make good decisions regarding appropriate tools for specific needs.

Dr. Todd Hubing is the Michelin Professor of Vehicle Electronics at Clemson University and Director of the Clemson Vehicular Electronics Laboratory.

For more information, please visit www.LearnEMC.com.

Give Ann Arbor kids a taste of engineering!:

IEEE is teaming up with the Ann Arbor library to help students in grades 3-5 learn more about manufacturing, programming and circuits.

IEEE volunteers are needed to help guide the kids and answer questions. The library can use 3 to 8 IEEE volunteers per event and each of the three events is repeated twice for a total of 6 opportunities to help. All the events are in held at the Ann Arbor Downtown library.

The “Hello World: Command Line for Kits” programming event will be from 6:00 pm to 7:30 pm on Thursday July 24 and Thursday August 21. “Manufacturama” will be held on Sunday July 13 and Sunday August 10 from 2:00 pm to 5:00 pm.

The kids will work in teams to come up with an invention idea, design a product and manufacture multiple copies from supplies at the library.

The “Simple Circuits with Engineers” events will be held on Sunday July 27 and Sunday August 17 from 2:00 pm to 5:00 pm. For each of these events, the kids will break up into small groups and work with supplies provided by the library.

This is a wonderful opportunity to share your love of engineering with the next generation.

Check out <http://www.aadl.org/ieee> for more information. If you would like to help, contact Rick Bollinger at richard.bollinger@ieee.org.

The Ann Arbor library is also looking for individuals that would like to teach a 90 minute class on something that is of general interest. These are onetime events and limited to 14 people and are typically an introduction to a software product or a hobby activity.

In the past, beginner classes about Word and Excel have been taught.

If there's some skill or expertise you'd like to share, contact Eli Neiburger of the Ann Arbor Public Library at neiburgere@aadl.org.

Thanks,

Richard L. Bollinger
618 Fifth Street
Ann Arbor, MI 48103 USA
+1 734/662-7752 Office
richard.bollinger@ieee.org

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Section Accepts Robofest Award:

IEEE SEM Section and IEEE Region 4 received an award of appreciation as a Bronze Sponsor of the RoboFest 2014 supporting STEM education through autonomous robotics.

Dr. CJ Chung, professor at LTU and active IEEE SEM member, organizes this international competition.



Above: Bob Neff, Section Chair, receives the award on behalf of IEEE Southeastern Michigan Section and Region 4.

Below: The award of appreciation from the Robofest organizing committee and Lawrence Technological University acknowledging the support of IEEE to the success of Robofest 2014.



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Executive Committee

The SEM Executive Committee is the primary coordination unit for Southeastern Michigan (SEM) IEEE operations. The basic organization chart below shows the 2014 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 Website first page.

If you wish to attend, or just monitor the discussions, please contact David Mindham, the Section Secretary at: dmindham@ieee.org and request a copy of the agenda and minutes.

More meeting details are available on the next page of this newsletter.

Other Meetings:

Most 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 those meetings each month.

However, most of our members are not 2-dimensional beings, with only one focused interest. That means that they would likely find meetings of the other Chapters also of interest. In order to communicate those options to

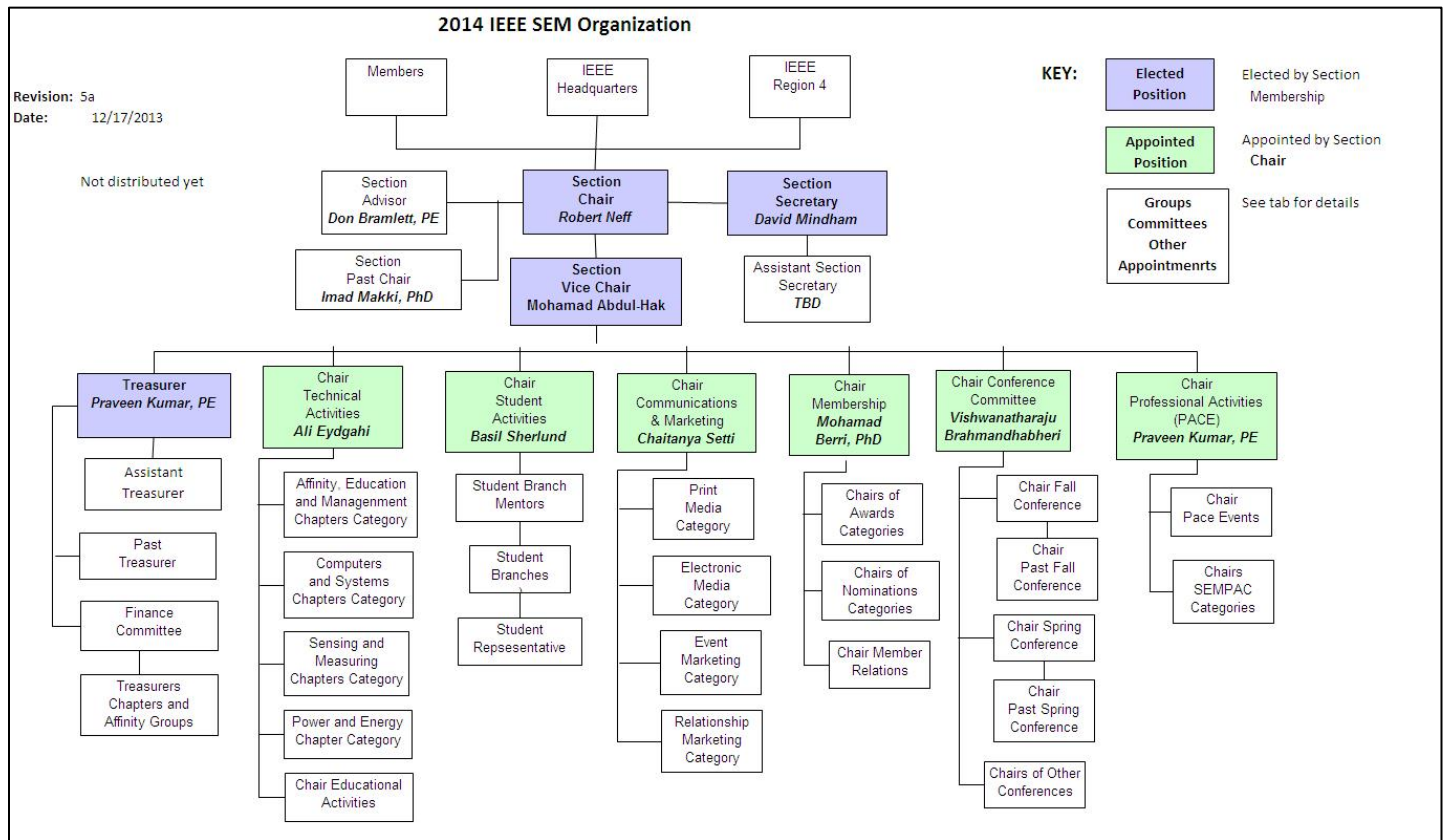
our members and facilitate their attendance we ask each of our Chapters to send their meeting information to our Webmasters who post the meeting information on the Website Calendar.

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.

You may also set up automatic e-mail notifications of web updates by using the "Email Notifications" button at the top of the **SEM Tools/Links** side banner.

David Mindham - SEM Secretary

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Section Mission & Goals**Section Focus:**

The IEEE SEM Senior Officers of the Section have reaffirmed the overall Mission and Goals of the Section, which align with the overall objectives of IEEE worldwide and with the guidance provided by our leadership in Region 4.

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
- 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,
- 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.

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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.(See Below)

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

The only caveat is that you please register using the specific meeting form found at:

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

This will ensure we have sufficient space, refreshments and support for everyone who joins the meetings.

Teleconference Schedule (held from 12-1 PM):

- **Thursday, June 5th**
- Thursday, August 7th
- Wednesday, September 3rd
- Wednesday, November 5th
- Thursday, December 4th

F2F Meeting Schedule:

- **Wednesday, July 9th**
- Thursday, October 2nd

More information for the f2f meetings will be sent out as the dates are approached. Keep in touch via the SEM Web site (<http://sites.ieee.org/sem/>) or use the links to the SEM Facebook or LinkedIn pages on the SEM Web page.

All the normally scheduled meetings of each of the other Section 'units' are listed each month in the vTools area of our SEM website at:

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

These announcements refer to:

Standing Committee Meetings:

Affinity Group Meetings:

Technical Chapter Meetings:

University Student Branch Meetings:

Calendar Schedule:

Meetings are also announced on the SEM Web page Calendar

<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 the '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 would be happy to have you as a participant.

Many volunteers get interested in Section activities when they get a chance to attend an 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

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vTools Schedule:

Editors Corner

This is the 6th 2014 issue of the Wavelengths newsletter.

Earlier editions in this series may be found on the IEEE SEM Web page 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, Chaitanya Setti at: chaitanyagini@ieee.org.

The newsletter does not have a staff of reporters to 'investigate' what is going on in the Section and write up informative articles.

We rely on our Officers and Members to provide the 'copy' that we finally present to our readers as the newsletter.

Wavelengths – Focus Plan:

Month	AG's	Ch's	Ch's	SB's	Special Notice	Reporting Events	Monthly Focus	Awards
Jan		1		U/D-M	Future Cities Judges	Election Results	Resolutions	
Feb	Cons	2		MSU	Science Fair Judges	Officer's Welcome	Surviving Winter	Future Cities
Mar		3	13	U/M-AA	Spring Conf. Flyer	Spring Conference	Spring Conference	Science Fair
Apr		4		WSU	National Engrs Wk.	Future Cities	Chapter Focus	GOLD Award
May	Life	5	14	LTU	Outstanding Eng Awd	Science Fair	Humanitarian	New Fellows
Jun		6		SCC	IEEE-USA Apmts.	ESD Banquett	Leadership Skills	SEM Awards
Jul		7	15	U/W	Nominations Call	MD-Webcasts	Students Issues	Region 4
Aug	WIE	8		OU	MGA - Apmts.	Tech-Webinars	Womens Issues	
Sep		9	16	EMU	Region 4 Apmts.	Engineers Day	Professional Skills	
Oct		10		ITT	Fall Conf. Flyer		Fall Conference	
Nov	YP	11	17	U/M-D	ELECTIONS!			
Dec		12			IEEE-Com Apmts.	Fall Conference	Happy Holidays	

Wavelengths – 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	

The **Wavelengths – Focus Plan and Personal Profiles** plan shown in the matrix below is conceived as a method to ensure a reasonable coverage of normally expected Section activities and events.

We try to finish each issue assembly by the week before the first of each month to allow time for review and corrections. If you have an article or notice, please try to get it to us on time, or early 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.

Letter to the Editor:

We would like to see "Letters to the Editor" as a regular column but, of course that means that someone must send an e-mail to the editor...[hint!](#)

Co-Editors:

I am selfishly looking for someone interested in helping to edit the newsletter along with me who can learn the process, share in the duties, and help keep the newsletter alive and lively by providing an alternative point of view.

If you feel you might be that person, or would like to train to become that person, please let me know.

k.williams@ieee.org

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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
Mohamad Abdul-Hak

Section Treasurer
Praveen Kumar

Section Adviser
Don Bramlett

Chair Communications & Marketing
Chaitanya Setti

Chair Conferences
Raju Brahmandhabheri

Chair Educational Activities
Chaomin Luo

Chair Finance
Bassel Atallah

Chair Membership
Mohamad Berri

Chair Nominations
Chaitanya Setti

Chair Professional Activities
Basil Sherlund

Chair Student Activities
Basil Sherlund

Student Representative
Hanan Mekawy

Chair Technical Activities
Ali Eydgahi

Past Section Chair
Imad Makki



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

SEM Executive Committee Face-to-Face Meetings:

- 1/Qtr. Usually held at U/M-D Fairlane Center
- 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>