

Wavelengths

Volume 56 - Issue 8 August 2016

Contents SEM Calendar e-Wavelengths1
Chair's Message2
On-Line Newsletter Active!2
SEM Officers News2
SEM Officer Elections1
Elections Committee Volunteers5
Electric & Hybrid Vehicle Tech Expo4
Sub 5 nm NanoImprint Lithography 5
High Speed Signal Integrity5
ITC Holdings & Grid Reliability4
Automotive Time Domain Reflectometry4
Senior Members War Story Networking4
Convergence Conference with SAE4
Origins of Silicon Valley4
Women in Engineering Summut4
Refer a Colleague - membership4
ESD Events2
Amateur Radio License Classes3
Other Coming Events15
Executive Committee16
SEM Mission & Goals17
SEM Monthly Meetings17
Editors Corner18
Web & Social Sites19
Section Officers19
Leadership Meetings20
Advertising Dates

Wavelengths Newsletter is produced by IEEE volunteers for SEM Members.
Archive: http://sites.ieee.org/sem/

Select: "Wavelengths"

SEM Calendar

e-Wavelengths

Section/Chapter Meetings, Webinars:

SEM – 8/2 Executive Committee Meeting (more)

CH17 – 8/17 Sub-5nm Nano Imprint Lithography (more)

CH8 – 8/18 High-Speed Signal Integrity Fundamentals (more)

SEM – 9/1 Executive Committee Virtual Meeting (more)

CH7 – 9/15 ITC Holdings Tour and Grid Reliability (more)

CH2/3/4 – 9/15 Automotive Time Domain Reflectometry (more)

SEM – 9/17 Senior Member War Stories Networking (more)

SEM – 10/6 Origins of Silicon Valley, Why and How it

Happened

(more)

CH4,8 – 10/17 Wireless Power Transfer Via Radio Waves (more)

Conferences and Seminars:

SEM 8/3-4 Simulation for Hybrid and Electric Powertrain (more)

SEM – 9/13-15 Electric & Hybrid Vehicle Tech Expo (more)

SEM – 9/19-21 Convergence Conference with SAE (more)

IEEE - 10/7 Women In Engineering Summit (more)

SEM – 10/16 Student Officers Training (more)

CH5 – 10/22 Embedded Systems Workshop (more)

SEM – 11/30 Fall 2016 Section Conference (more)

Career and Member Development:

IEEE Collaboratec has updated messaging and features (more)
IEEE Technical Communities to try at no cost for limited time
(more)

CH5 - 9/10, 17, 24 Fundamentals of Embedded Software (more)

Positions Available:

SEM list is available at link (more) ESD Job Bank (more)



Chair's Message

Chair's Comment: (new comments to be entered)

Usually I use this space to promote upcoming events or encourage you to participate in the SEM organization, Chapters or Affinity Groups. This month I need to reiterating our financial procedures for obtaining funding from the Section.

Budget Process:

We have a budget process that starts in October and ends with ExCom approval in December. Durina October. November and early December, Chapters, Affinity Groups and committees are asked to submit anticipated income and expenditures. Late last calendar year chapters and affinity groups were asked to respond with their needs for meeting expenses. Those that responded were shown in the budget with either a base amount of \$200 to cover meeting expenses or a higher amount for justified reasons. The approved budget is available in the On-Line Community (OLC) in the Financial Committee folder. If you need access to the OLC, please enter your request at the log in page.

If your Chapter, Affinity Group or Committee are pre-approved in the 2016 SEM Budget you may spend the money and submit an expense report with receipts to our treasurer Basil Sherlund.

Funding Requests:

If your Chapter, Affinity Group or committee did not respond during the budget process you do not have an preapproved expenditure amount and the budget will show \$0 for your meetings budget. You must submit a proposal requesting approval of an expenditure that is accompanied with an explanation and justification for it. Nevrus Kaja is the chair of the Finance Committee. Basil Sherlund and myself, sit on that committee. If the Finance Committee approves proposal, it then goes to the ExCom for approval. Only the ExCom can approve spending the Section's money. A PowerPoint PDF slide explanation is available in the OLC in the Finance Committee folder.Up Coming Conferences and Workshops:

Plans are underway for some great events. Volunteers are welcome and needed. See the SEM web site www.ieee-sem.org for more details.

- Humanitarian Technology Conference is planned for July 9.
- Fall Conference planning is underway. Please contact Nevrus Kaja to volunteer, offer Chapter and Affinity Group speakers and help with the planning.
- Women in Engineering Summit is planned for this October. Please contact Liang Xi Downey to help in the planning.
- Student Activities Leadership Workshop is being planned. Please contact Nevrus Kaja for more information.
- IEEE SEM will participate in SAE Convergence, please contact Eugene Saltzberg, Chair Chapter 2.

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

On-Line Newsletter Active!

This is the second month of the new e-wavelengths change at http://www.ieee-sem.org/egrid/. This is progress realized to have a dynamic calendar online for any device vou have of phone/tablet/PC for the IEEE SEM information. Your input welcome and please reply or contact me, others on IEEE communications link of page 23.

If you are interested in being part of this evolution of SEM please see page 21 for our e-Wavelengths contacts and reply to us to participate. Your contributions are and response to format, suggestions are welcome.

Malcom Lunn

lunnmalcolm@me.com KD8TPO

Using ListServ, eNotice and other Utilities for Communications

Many officers have used the 'ListServ' system for distributing messages to the IEEE SEM Geo-unit members. ListServ system automatically distributes messages to multiple e-mail addresses (up to several thousand!) without the problem of 'rejection' by server systems when more than an arbitrary minimum number of e-mail accounts are included. If a server rejects a message, it is flagged as 'Spam'.

The system is useful, however, it requires regular updating, perhaps even on a daily basis when new members are added to the Geo-units in our section. Upon receipt of the IEEE SAMIEEE member database each month, up to about 20 to 30 minutes of volunteer time are required to update each of the ListServ files of the four affinity groups, 17 chapters and eight student branches.

IEEE introduced a new eNotice system for sections on June 3, 2016; it has desirable features for messaging to a large number of IEEE members. Most of the ListServ files for our Geo-units were deleted by IEEE IT, thereby requiring that the eNotice system be used for messaging. Geo-unit chairs and secretaries have been granted access to the eNotice system. Other section members needing access should contact their Geo-unit chair and request that they be given access as an 'eNotice Coordinator'. The chair will submit the request to the vTools team who will then grant use of the eNotice system.

The eNotice system and its implementation was discussed during recent IEEE SEM Section ExCom teleconferences and face-to-face meetings, however, some officers may not have had the opportunity to attend the meetings. In the event that you have not had the opportunity to review the eNotice tutorial, or listen to the audio training file, they may be accessed via the vTools webpage

http://sites.ieee.org/vtools/. A brief introductory tutorial text containing important directions is displayed upon selecting the eNotice tool. It is suggested that the entire introductory text be read before accessing the NEW version of eNotice for the first time. Another informative eNotice resource for new users is an audio training file that lasts only 4 minutes and 14 seconds. It is located on the SEM Training Material website, http://sites.ieee.org/sem/abou t-sem/training/.

eNotice is user friendly and does not require a lot of maintenance. It has an automatic member update system which delivers a message to all the Geo-unit members currently listed in the SAMIEEE database. It also has an 'Express' feature that may be used to send messages within two hours that do not have special requests or attachments; the feature allows enough time to have one of those...'Oh no!' moments and to recall or modify a message. Additionally, enter keyboard characters in the 'Title' of a message with caution; only alpha characters can be used in a 'Title'. Titles with non-alpha characters will be sent to the IEEE staff for timely review and processing.

Note the IEEE staff is required to review eNotice messages with attached documents before releasing them to the larger community; this will delay the sending of the message. The fastest way to send a message with a document is to place it on the website of your section, chapter or affinity group, and then include the link in an eNotice message.

There are still a number of useful applications for the ListServ system. For example, the list of section officers has over 182 e-mail addresses which rarely change. ListServ continues to be desirable for communicating with officers when working on large committees and working groups. A few Geo-units continue to maintain their own ListServ systems with e-mail contacts for nonmembers that have 'interest' in their activities. Each Geo-unit secretary is able to establish and maintain a system for internal use.

Geo-units with 10 or less members can use a simple group e-mail utility, such as Google Chrome, Contact Manager, e-mail Group, etc. Some Geo-units have also developed Google groups or Collabratec groups that serve as document repositories and group communication portals.

Whatever method chosen, keep the communications flowing. They are the life-blood of your team.

k.williams@ieee.org

SEM Information Management Coordinator

SEM Officer Elections

Officer Nominations are here for 2016 IEEE Southeastern Michigan Section

There are two changes from our previous election processes that will affect your election decisions:

- New "Chair 'elect' and Vice-Chair 'elect' positions will take effect this year, and
- Ballot nominations will 'open' on or about September 1, 2016 and close on or about September 30, 2016Details of these processes and options are provided below.

"New" 'officer 'elect' positions.

At a recent SEM Executive Committee face to face meeting final decisions were made which enacted the proposal to provide for 'elect' positions for all the ExCom officers (Chair, Vice-Chair, Secretary and Treasurer).

The new <u>'elect' position</u> provides for the election of new officers one year ahead of their taking office and assuming their duties. This will accomplish several beneficial factors for both the Section and the Officer. Most obvious and important is that the 'elect' position officer will know, one year in advance of taking office which position she or he is to prepare to hold. This will allow a full year in which the newly elected officer is able to 'shadow' the current officer holding the position for which they have been elected and 'learn the ropes' for that office. This will mean that the transition to the new officers should be 'seamless' and the new officer should be fully up to speed as their term starts.

In addition, the expansion to <u>two year terms</u> enacted for SEM with the 2015 election will give our elected 'ExCom' officers sufficient time to plan and execute more 'long term' projects and plans than was feasible with only a single year term and virtually no knowledge as to whether they would have the opportunity to plan and carry out large scale tasks.

Note: The full ExCom officer terms require a 5 year commitment of each officer candidate.

One year as the 'elect' position.

Two years filling the actual post for which they are elected.

<u>Two years</u> as the 'Past' position officer during which they serve as advisers and assistants to the current officer holding the position.

Staggered Elections:

Because of the 'staggered terms' that were enacted with the 2015 elections in which we elect our Section Chair and Vice-Chair is separate years from our Secretary and Treasurer, this year will be an 'interesting' variation on the election process as we introduce the new 'elect' position.

Elections in 2016. This year we will hold elections for the following Section level Officers:

Chair & V-Chair 'elect'. To begin serving two year terms in 2018.

Secretary & Treasurer. To begin serving two year terms in 2017.

Thereafter, each year we will select 'elect' officers alternating between Chair & V-Chair, then Secretary & Treasurer, every other year. This will provide overlap with experienced and 'in training' officers to ensure greater continuity of operations and the fulfillment of long term programs and projects.

Affinity Groups and Chapters:

Elections for the Section's four Affinity Groups (AGs) and seventeen Technical Chapters (Chs) will continue without changes. We know that several of the AGs and Chs have looked on the current ExCom election process with interest. However, at this time, none have come forward to the Nominations and Appointments Committee with a recommendation for consideration to modify their own electrical process

Election Schedule:

As noted in our announcement of the election process early in the year, we are now notifying all "voting members" of the opportunity to 'run' for election to any elected governing position within the Section, Affinity Groups or Technical Chapters.

Our plan for the election schedule for 2016 is as follows:

- August: Advise members of the election schedule and options.
- September: Open the option for candidates for nomination (self nominated or by another.).
- October: Open the ballot election system for two weeks
- November: Compile election results, resolve alternatives, fill vacancies.
- December: Deliver results report to the Section Executive Committee.

Voting Members:

All members above Student Member grade are eligible to vote and hold Chapter, Affinity Group and Section office. Yes, Graduate Student Members do qualify for election to officer positions. Please consider what positions you might wish to both serve the IEEE as well as learn new leadership and organization governance skills.

Be prepared to submit a self-nomination for an officer position in September when we open the balloting process. If you are new to this process, it makes good sense to begin your involvement in any of the governance areas by initially gathering experience in 'volunteer' roles. You are encouraged to have involvement at the committee volunteer level as stepping stones to prepare for elected offices.

<u>Note:</u> All committee positions are 'appointed' and not 'elected'. Contact the current Committee Chair to discuss volunteer options. Also see the SEM Officer Roster posted in the SEM Website for details of each committee.

K.williams@ieee.org

Chair: N&A Committee.

Elections Committee Volunteers

Seeking Volunteers for Officer Nomination and Appointments Committee

The Nominations and Appointments Committee is seeking volunteers interested in participating at the Section level to gain experience in IEEE without the requirements of an elected position.

Nominations & Appointments Committee:

The Nominations & Appointments (N&A) Committee is in need of volunteer assistance as we cycle through the yearly election period, assist Affinity Groups and Chapters to fill elected positions vacancies as they occur throughout the year, and help members find Committee positions to allow them grow among the many Section level standing committees.

There is one restriction on Nominations and Appointments Committee members. No N&A Committee member may also hold an elected office. This prevents any possible conflict of interest or even the perception of such conflict.

Rewards:

As a N&A committee member you have a chance to interact with many members and many Standing Committees and obtain an overview of the entire Section and its activities.

If you are interested in looking more closely at Section operations and getting a chance to 'lift the hood' and see what goes on in the machinery of governance of the Section, please contact our current Chair of the N&A committee

Kimball Williams

Electric & Hybrid Vehicle Tech Expo

September 13-15, 2016

Novi, Michigan





REGISTER FOR A FREE EXPO PASS
>> Includes free speaker sessions

BOOK A CONFERENCE PASS >> Passes start from \$545*

500+ exhibitors 6,500 attendees

140 speakers

How can you benefit from attending the Electric & Hybrid Vehicle Technology Expo?

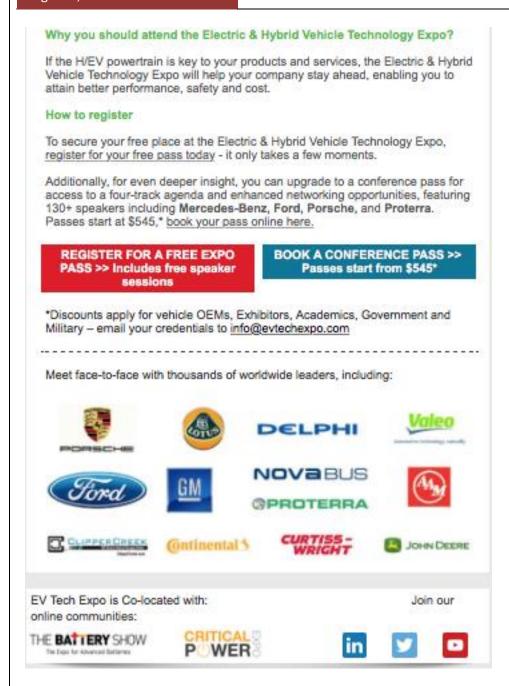
- Discover cutting edge technology and cost-effective manufacturing/supply solutions from 500+ exhibitors including Continental, Delphi, Valeo, ClipperCreek, John Deere and more. View exhibitor list.
- Keep up with the latest product developments with over 20 hours of freeto-attend presentations including speakers from Powerex, IES-Synergy, and DEWESoft. View Open Tech Forum Agenda.
- Network with thousands of speakers, exhibitors and attendees at the exhibition networking events, aimed to facilitate key buying discussions in a more relaxed environment. Book your online pass here.

Who attends the Electric & Hybrid Vehicle Technology Expo?

- Engineers, CEOs, presidents, VPs, project managers, technical leaders, buyers and senior executives concerned with H/EV technology. <u>Find out</u> more here.
- The entire H/EV supply chain including automotive manufacturers, component suppliers, cabling and connector suppliers, charging station manufacturers and many more!

Why you should attend the Electric & Hybrid Vehicle Technology Expo?

If the H/EV powertrain is key to your products and services, the Electric & Hybrid Vehicle Technology Expo will help your company stay ahead, enabling you to attain better performance, safety and cost.



EV Tech Expo Gears Up For More Success

The world of EV/HEV systems innovation and advanced engineering will light up Novi, Michigan as the Electric & Hybrid Vehicle Technology Expo (EV Tech Expo) returns to the Suburban Collection Showplace over Sept 13-15.

Co-located with The Battery Show and Critical Power Expo, there are now 500 confirmed exhibitors in total with all three halls of the event sold out.

This is the fourth consecutive edition of the show, and it promises to be the biggest and best yet. "The rapid growth – and indeed transformational nature – of this sector is reflected in the breadth and continued surge of interest in our Electric & Hybrid Vehicle Technology Expo," said Event Director, Steve Bryan. "We fully expect to break all previous records this September and we can already sense the great anticipation ahead of the doors opening in two months' time."

EV Tech Expo is North America's most significant and broad-based free-to-attend gathering of all sides of the e-mobility community. It offers today's and tomorrow's manufacturers of every type of electric and hybrid vehicle an unmatched opportunity to get right up close to the very latest technologies and innovations being developed right across the powertrain.

Current proven systems sit alongside next-generation solutions in an alternative energy showcase that addresses all the critical technologies for consumer and fleet EV/HEVs, through to the toughest power demands required for off-highway industrial vehicles.

One look at the expo floor plan demonstrates that the niche, the brightest and the biggest have all thrown their weight behind EV Tech Expo - with

August 1, 2016

IEEE SOUTHEASTERN MICHIGAN SECTION

commitment from leading names such as Hongfa America, ATS Automation, Omron, MEDC, DEWEsoft, Remy, Brammo, Kostal Kontakt, CAVS, Genovation, IES Synergy, Tawaki, Orion Test Systems, Valeo, Delphi, Microvast, amongst many, many others.

It's not surprising, then, that the visitors keep coming back in ever greater numbers, giving strong cause for optimism around the booths. "It's been fabulous," commented Boston-Power's Mario Montanile after last year's show. "The show is very exciting. It's growing tremendously and is probably the best show we've been involved in."

Momentum is undeniably growing – reflecting the industry itself – and last year it was tremendous to see the number of attendees up nearly 25% at around 5,800. We can report that, once again, pre-registration is running at a very high level. We expect to see large delegations from the major corporations as well as thousands of senior buyers, engineers and technical leaders from the OEMs, Tier 1 and Tier 2 suppliers.

The meticulous preparation for this year's event continues over at Smarter Shows and expectations remain high for the triple-theme format. Brooks Agnew, CEO at EV-Fleet, has highlighted how the Novi approach works out: "We really like the fact that they include hybrid, electric vehicles and batteries in the same show. We all have synergy between each other and use each other's products. It helps us meet each other and do more business, so it's been very productive".

Make sure you book your spot to meet with the leaders and influencers and see what's going to be firing everyone up in the coming year. Register for your free-of-charge pass here:

http://www.evtechexpo.com/visit/registration-options

Sub 5 nm NanoImprint Lithography

SUB-5NM PATTERNING AND APPLICATIONS BY NANOIMPRINT LITHOGRAPHY

Nanoimprint lithography (NIL)1 is a cost-effective nano-patterning technology based on the mechanical deformation of a resist. It is capable of high-resolution, large-area, high-throughput and low-cost patterning. Moreover, it can be used to pattern 3D nanostructures and on non-flat and flexible substrate. The resolution of NIL is limited by the available NIL mold. Helium ion beam lithography (HIBL)2 is a recently developed technology. It works in a way similar to electron-beam lithography (EBL), except replacing the electron beam with a Helium ion beam. Due to the smaller beam spot size and less forward and backward scattering of Helium ions, HIBL has better resolution than EBL. However, HIBL has very low throughput and it can damage certain substrates. The drawbacks of both technologies can be solved by combining them: using HIBL to make high-resolution NIL molds, and then using NIL to pattern real samples with those mold. In this way, we have demonstrated high-resolution patterning down to 4 nm half-pitch3. We fabricated Graphene nanoribbons with dense lines down to 4 nm half-pitch using Helium ion beam lithography. Our Raman spectra show that the HIBL patterned Graphene nanoribbons (GNRs) have lower line-edge roughness than reported GNRs patterned by EBL. Field effect transistor (FETs) based on those GNRs were also demonstrated. Bandgap of 88 meV was observed for the first time in GNRs with width of 6 nm and NO2 gas sensors were demonstrated using those GNRs4. At the end of the talk, a few other applications based on nano-photonics will be briefly reviewed too.

O

DATE AND TIME



Date: 17 August 2016

Time: 10:00 AM to 11:30 AM

All times are America/Detroit

Add Meeting to Calendar

1301 Beal Ave

Ann Arbor, Michigan

United States 48109

Building: 1311 EECS Building -

University of Michigan

Click here for Map

High Speed Signal Integrity

HIGH-SPEED SIGNAL INTEGRITY FUNDAMENTALS



Chunfei Yi of Intel - China

Topic: SI

Signal integrity (SI) has becomes a critical factor determining the performance of a link and cost of the design for today's computer system, communication network, and the Internet of Things, etc.. This presentation will cover the importance of SI and typical SI challenges such as loss, crosstalk, impedance discontinuity, and jitter, etc. SI performance improvement and enablers will also be discussed including equalization, interconnect optimization, and crosstalk mitigation. SI modeling, simulation and measurement will be briefly introduced in this presentation as well.

Biography:

Biography

Dr. Chunfei Ye works with Intel Corporation as Senior Staff Engineer, responsible for PCH and SOC CPU SI design for SATA, SAS, USB, and package electrical design for all generations of Intel server platforms from 2005. He is SI team lead and tech lead in the server group. Chunfei Ye obtained B.Sci. in Mathematics in 1982 from Hangzhou University and Ph.D. in Electrical

Engineering in 1994 from Southeast University. Before joining Intel in 2002, his work experience includes working as Associate Professor with Shanghai Tiedao University China, visiting scholar and instructor with Massachusetts Institute of Technology USA, and Senior Engineer at Institute of High Performance Computing Singapore. Chunfei joined Intel China Ltd in 2002 as group manager supporting signal integrity and power integrity for Intel communication products. He joined Intel server group in 2005 supporting server PCH and SOC CPU SI design since then. Chunfei is the vice chair of IEEE EMC Society Technical Committee 10 (Signal Integrity and Power Integrity). He holds 3 patents and have more than 50 publications in international journals and on conferences.

Email: chunfei.ye@intel.com

DATE AND TIME



LOCATION

Date: 18 August 2016

Time: 05:30 PM to 07:30

PΜ

All times are US/Michigan

Add Meeting to Calendar

Al Ameer Restaurant

2100 N Haggerty Rd

Canton, Michigan

United States 48187

Room Number: Banquet

Room



AR RF / Microwave Instrumentation



rf/microwave instrumentation

ITC Holdings & Grid Reliability

GRID RELIABILITY AND ITS VITAL SIGNS AND ITC HOLDINGS CONTROL ROOM TOUR

Frequency, voltage, customer interruption. What do these vital signs tell us about the bulk power system? Learn the basic grid health underlying the vital signs and how to accurately assess them. Since the 2003 Northeast Blackout, regulation of the electric power industry and standardization of operations by utilities have increased. Has the grid reliability improved? The vital signs – frequency, voltage, and customer interruption – communicate important information about the status of the grid reliability. In this presentation, we explore reliability aspects of bulk power system underlying the vital signs so that you will develop a systematic, integrated understanding of how to assess the bulk power system reliability. Additional indicators include energy emergency alerts, transmission outage rates, protection system operations, and resource reserve margin. We discuss ranges, trends, and driving factors that influence changes in these indicators.

The event is free, but registration is required for secure access to the ITC Holdings building. A photo ID will be required. Pizza and beverages will be provided. 4 PDHs will be provided to IEEE members.



SPEAKERS



Dr. Jessica Bian Biography:

Dr. Jessica Bian is a visionary leader and architect. She has spearheaded electric industry's reliability metrics and grid risk assessment. She is currently with the Federal Energy Regulatory Commission (FERC) in Washington, DC. Prior to FERC, she was the Director of Performance Analysis at the North American Electric Reliability Corporation (NERC). Under her leadership, a total of 18 industry-wide reliability indicators and three composite indices were established first time to determine the reliability, adequacy, and associated risks to the interconnected North American bulk power system. In spring 2012, she steered multiple technical industry groups and directed completion of the first-ever industry-wide State of Reliability report. It marked a major step forward in benchmarking the North American grid reliability. She is widely recognized as a pioneer and trusted world leader in the field.

Before joining NERC, Dr. Bian was with PJM Interconnection and ERCOT, responsible for real-time operations support, resource economic dispatch and operator training simulator projects. She started her career at Westinghouse Electric; was involved in generator design and Flexible AC Transmission Systems (FACTS) applications.

Dr. Bian holds two patents and published over 70 articles in transactions, journals and proceedings. She received the 2014 IEEE PES Wanda Reder Pioneer in Power Award for her technical accomplishments and being an inspiring role model to young women engineers in power. She is the Secretary of the IEEE Power and Energy Society.









O DATE AND TIME



LOCATION

Date: 15 September 2016
Time: 04:00 PM to 08:00

ime: **04:00 PM to 0**

PM

27175 Energy Way Novi, Michigan United States 48377





AUTOMOTIVE TIME DOMAIN REFLECTROMETRY



Yoji Sekine of Keysight Technologies

Topic: SI

Abstract

Biography:

Biography

Yoji Sekine is a marketing engineer for the Communications Solutions Group of Keysight Technologies. During his 19 years with the company, he has held various positions, including as an R&D engineer designing various products, such as vector network analyzers (VNAs), signal source analyzers and LCR meters. He is currently responsible for time domain applications on the VNA. He holds a BSEE degree from the University of California at Davis.

DATE AND TIME



LOCATION

Date: 15 September 2016

Time: 05:30 PM to 07:00

PM

Canton, Michigan

United States

Check.

Pre-Flight Check List

Senior Members War Story Networking

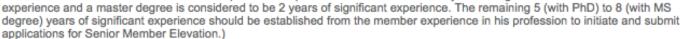
IEEE SEM SENIOR MEMBER ROUNDUP & WAR STORIES NETWORKING AT LTU

Senior Member "Round Up":

IEEE Southeastern Michigan Section Membership Committee will hold its 1st ever Senior Member Round up and War Stories event, at Lawrence Technical University (LTU) on September 17th, 2016 between 9 AM and 2 PM in the University Technology and Learning Center (UTLC on the map) - Gallery.

Elevation:

Senior Member Reviewers will assist interested member candidates with at least 12 - 15 years of experience in their profession. At least a ten years of significant experience with BS degree needs be be established to initiate the senior membership elevation. (A Ph.D is considered to be 5 years of significant



Note: There is no cost to becoming a Senior Member, and this step is a necessary prelude to seeking the IEEE 'Fellow' level.

Everyone is Welcome to join us for War Stories and Networking. To sign up for an "Elevation" Time Slot, please register here for the event,....

and also use the 'Doodle' at: http://doodle.com/poll/m48xwsqikfeesgyr to register for a time 'slot'.

Networking:

We are inviting the LTU IEEE Student and IEEE KHN Branches to join us. Bringing Senior members of the Section and LTU Student members together should create a wonderful opportunity for cross-generation networking.

War Stories:

We will combine the 'Rodeo' with a 5 to 10 minute 'War Stories' event, in which we ask the experienced members to relate their most humorous or exciting or interesting experience as a 'design engineer', or 'field engineer' or an experience that gave them that 'Ah Ha!' revelation, or the most 'interesting or memorable person' they have met in their career, or the 'time when they almost died',... this could keep everyone entertained for hours... The new candidates coming to the event would constantly 'refresh' the stock of stories. (We think the exchange between Students and Senior members could be beneficial to both groups.)

②

DATE AND TIME



LOCATION

Date: 17 September 2016

Time: 09:00 AM to 02:00 PM

All times are US/Michigan

Add Meeting to Calendar

21000 W 10 Mile Rd

Southfield, Michigan

United States 48075

Building: UTLC

Room Number: Gallery

Agenda

University Technology and Learning Center (UTLC - #9 -on the map) - Gallery

9:00 AM Continental Breakfast, Introductions, Begin War Stories and Elevation processing.

12:00 Noon Lunch Break (War Stories Conitnue)

12:30 continue program

2:00 PM Wrap up, Clean up, Say 'Good bye'.

Convergence Conference with SAE



2016 Theme: Personal Mobility – Creating a Smart and Autonomous Journey

Transportation of the future is now. Personal mobility, the internet of things, and autonomous driving are converging and creating conditions for an incredible journey.

SAE 2016 Convergence® explores the technology space that enables such smart mobility - electronics, embedded and off-board software, connectivity, autonomy, alternative propulsion, and modes of transport. The innovation around these technology spaces is

Industry Experts Discuss SAE 2016 Convergence®



Event Quick Links

- Event at a Glance
- Program
- Deadlines & Pricing
- Hotel & Travel
- · Floor Plan
- Exhibitor List



the foundation of personal mobility. Convergence® explores these and other questions. How will automotive electronics and on-board and off-board software play a role in that? What are the new paradigms? What are the possibilities? What has to change to enable total convergence? Join your peers at 2016 Convergence® to hear automotive insiders, technology experts, and thought leaders address these emerging innovative topics.

Highlights

- Event preview:2016 SAE Convergence brings new program for tech collaboration
- Sneak peek into Convergence's Automotive Innovators panel
- Download the Dear Boss letter
- Convergence® Chair James Buczkowski talks about the importance of this event
- Register now for seminars at Convergence®



Origins of Silicon Valley

THE ORIGINS OF SILICON VALLEY: WHY AND HOW IT HAPPENED

https://events.vtools.ieee.org/m/40577



Paul Wesling

Topic: The Origins of Silicon Valley: Why and How It Happened

Why did Silicon Valley come into being?

The story goes back to local Hams (amateurradio operators) trying to break RCA's tube patents, the sinking of the Titanic, Naval ship

communications requirements, early "angel" investments, Fred Terman and Stanford University, local invention of high-power tubes (gammatron, klystron), WW II and radar, William Shockley's mother living in Palo Alto, and the SF Bay Area infrastructure that developed -- these factors pretty much determined that the semiconductor and IC industries would be located in the Santa Clara Valley.

Paul Wesling, an IEEE Life Fellow and CPMT Society Distinguished Lecturer, will give an exciting and colorful history of device technology development and innovation that began in San Francisco and Palo Alto, moved down the Peninsula, and spread across the Santa Clara Valley during and following World War II. You'll meet some of the colorful characters – Cyril Elwell, Lee DeForest, Bill Eitel, Charles Litton, Fred Terman, David Packard, Bill Hewlett and others -- who came to set leadership patterns for the worldwide electronics industries through their inventions and process development and allied management techniques. This explosion of innovation continued through analog design, to digital, then to software, biotech, the graphical user interface, the Internet, mobile, Big Data, deep learning, and now virtual reality. He'll end by telling us about some current local organizations and movements that keep alive the spirit of the radioHams and the Homebrew Computer Club -- Maker Faire, MeetUps, and the other entrepreneurial groups where geeks gather to start new companies that invent the future.

Biography:

Paul Wesling, Stanford '66 (BSEE) and '68 (MS-MatSci), IEEE Life Fellow, retired from Tandem

Paul Wesling received his BS in electrical engineering and his MS in materials science from Stanford University. Following assignments at GTE/Lenkurt Electric,ISS/Sperry-Univac, Datapoint Peripheral Products (VP - Product Integrity), and Amdahl (mainframe testing), he joined Tandem Computers in Cupertino (now part of HewlettPackard) in 1985. He designed several multi-chip module prototypes, managed Tandem's Distinguished Lectures series, and organized a number of advanced technology courses for his Division and also for the IEEE. He managed a grant from the National Science Foundation for the development of multimedia educational modules. Paul retired from HP in 2001, and then served for 10 years as the Communications Director for the IEEE's S.F. Bay Area Council.As vice president of publications from 1985 through 2008, he supervised four archival journals and a newsletter for IEEE's Components, Packaging and ManufacturingTechnology (CPMT) Society. He is a Fellow of the IEEE, and received the IEEE Centennial Medal, the Board's Distinguished ManufacturingTechnology (CPMT) Society. He is a Fellow of the IEEE, and received the IEEE Centennial Medal, the Board's Distinguished ManufacturingTechnology (CPMT) Society. He is a Fellow of the IEEE's Third Millennium Medal. He has organized over 500 courses for the local IEEE chapter in the Santa Clara Valley (SiliconValley), many of them held at Stanford University (and,more recently, at Silicon Valley company facilities). An Eagle Scout, he served as scoutmaster of his local BoyScout Troop for 15 years, was Advisor of a High-Adventure Crew, and enjoys backpacking, fly fishing,guitar and amateur radio (call sign: KM6LH).

Agenda

When: Thursday, October 6, 2016 Where: Barronett Hotel Novi, Mi.

Time: 4pm to 7:00pm

Registration link: :http://ieee-sem.org/wie-ilc/registration/

4:00 PM - 5:30 PM:

*Tutorial: "The Origins of Silicon Valley: Why and How It Happened" *Speaker: Paul Wesling, IEEE Distinguished Speaker & Life Fellow

5:30 PM - 7:00 PM: •Networking Reception

Women in Engineering Summit



Join Us!

Join more than 200 women leaders, innovators and entrepreneurs from the Great Lakes region and other IEEE regions at the IEEE Women in Engineering International Leadership Summit - Detroit (WIE ILS-Detroit) on October 6 and 7, 2016 in Novi, Michigan.

Attendees will have opportunities to:

- enhance their leadership skills
- learn new ideas
- collaborate with technical professionals and industry thought leaders
- earn Professional Development Hours (PDHs), which can be used for professional engineering licenses

This is a great opportunity to share your experience and expertise to help advance other women in their careers!

The inaugural Summit will focus on professional leadership topics, including managing technical teams, developing executive presence, finding strength, overcoming stereotypes and succeeding in a second career. The Summit will focus on inspiration, entrepreneurship, innovation and professional growth.

Reserve your spot today!

REGISTER NOW!

Refer a Colleague - membership



Refer a Colleague, Get Great Merchandise

Have you encouraged someone who has your interest in advancing technology to join IEEE? Now is the best time to do so. Refer a colleague to join IEEE today and they will get membership through December 2016 at half price.

As a gift from IEEE-USA, you have the option of receiving a piece of IEEE-USA merchandise when they successfully join. This is in addition to the monetary reward you earn from the traditional Member-Get-A-Member (MGM) Program!

The program is simple:

- Refer your colleague via the online form.
- Your referral automatically receives an email inviting them to join IEEE.
- Your referral provides your IEEE member number as they join.
- Within a few weeks after your referral joins, you will receive an email confirming your recruiting success, with a link to select your IEEE-USA merchandise item.*
- You will receive a separate email for each new member you recruit. Please help spread the word and share your IEEE experience - no one knows the benefits of IEEE membership better than you. Refer your friends and colleagues today!

*IEEE-USA gift items from which you can choose include a cooler backpack, computer backpack, tablet case, portable speaker, Parker pen and mechanical pen set, Parker ballpoint pen, golf balls, baseball hat, golf umbrella and travel umbrella.

Important to know: There is no limit to the number of merchandise items you can earn; so long as your referrals join as professional members. Student members and Society Affiliates are not eligible for this promotion. You also remain eligible for the <u>MGM incentive awards</u> given out once per year in September..

ESD Events

IEEE Southeastern Michigan Section maintains a supporting membership as an Affiliate with the Engineering Society of Detroit (ESD), and supports many of its activities.

We try to publish ESD events that we feel our members may want to attend. Below is a listing of some of the ESD events planned for 2016:

The Engineering Society of Detroit's (ESD) Professional Engineer Licensing Review Courses

Since 1941, The Engineering Society of Detroit has successfully prepared thousands of candidates for the State licensing exam in a variety of disciplines ranging from civil and environmental to mechanical and electrical engineering. You'll learn in a small classroom-like setting from instructors who have first-hand knowledge of the course material. Let ESD's 70-plus years of experience help prepare you to pass the exam on your first try.

FE (Part I) Review Course August 16-October 20, 2016

The Fundamentals of Engineering (FE) Part I Review Course provides 84 hours of instruction in engineering fundamentals for candidates planning to take Part I of the Professional Engineers Exam.

The classes are held Tuesdays and Thursdays from 6-9 p.m. and on Saturdays (morning or afternoon depending on discipline) at ESD headquarters in Southfield. The Saturday sessions start on August 16, 2015.

FE (Part II) Review Course Alternate August 27- October 8, 2016

The Principles & Practice of Engineering (PE) Part II Review

Courses consists of 28 hours of instruction, on seven half-day Saturday sessions, focusing on problem solving techniques needed for the Professional Engineers (Part II) exam.

All classes are held on Saturdays at ESD headquarters in Southfield. The civil engineering course meets 8:30 a.m. – 12:30 p.m. Mechanical, environmental and electrical courses are 1 – 5 p.m.

For more information or to register:

Visit <u>www.esd.org</u> or contact Fran Mahoney at 248-353-0735, ext. 116, or <u>fmahoney@esd.org</u>.

<u>Link to the ESD Fundamentals</u> Classes

Engineering SMArT Michigan Program

ESD's Engineering SMArT Michigan program is a rigorous, hands-on science, math, architecture and technology (SMArT) project in which high school students design energy-efficient homes.

Through a series of learning modules, students will be introduced to the basics of energy, alternative energies, and the energy grid, in an atmosphere of fun activities and team building. They will apply these concepts to create real-life solutions by working in teams to design a house. The culmination of the program is a presentation of their team-designed house at a competition between all participating schools where they will vie for scholarships and other prizes.

What role do mentors play?

Volunteer mentors are a critical element to the success of the program and are needed to help teach and coach in the classroom. There are two groups of mentors - Energy Module and Presentation Module.

What is the time commitment for a mentor?

The 15-week program gets underway in late January and finishes up in late May at the competition. Energy Module mentors are asked to teach a minimum of one class period per week for two weeks. Presentation Module mentors are assigned to a school and asked to teach a minimum of one class period per week for eight weeks. Efforts will be made to schedule multiple Presentation Module mentors at each school in order to ensure at least one mentor is in the classroom each week. Mentors can volunteer for one or more schools.

Interested in mentoring?

For more information on mentoring or to volunteer, contact Jasmine Sisson, PE, at sisson@pbworld.com

Amateur Radio License Classes

Above in the items for the Origin of Silicon Valley Discussion on October 6th the role of Amateur Radio is a topic. This may be of interest to the members.

Malcolm Lunn, KD8TPO

The Hazel Park Amateur Radio Club will host a

General Class Amateur License Course

WHEN: Mondays, September 12 to December 5, 2016

TIME: 7 PM to 9 PM

WHERE: Lawrence Technological University

21000 W. Ten Mile Road Southfield, MI 48075

Campus and Building maps will be sent when you register with W9NPI@arrl.net

INSTRUCTORS: **KE8HR, KC8TVG, N8FE**

COST: FREE Instruction.

License Manual (\$25--cash) available from instructors at first session.

FCC License Exam at the last class session (\$15 fee)

Pre-registration is Necessary

Prerequisite: Technician Class Amateur Radio License, or CSCE showing Element 2 exam credit.

Registration/Information: Contact W9NPI @arrl.net

The Hazel Park Amateur Radio Club will host an

Extra Class Amateur License Course

WHEN: Tuesdays, from September 6, 2016 to December 13, 2016

TIME: 6 PM to 9 PM

WHERE: Lawrence Technological University

21000 West Ten Mile Road

Southfield, MI 48075

Campus and Building maps will be sent when you register with W9NPI@arrl.net

INSTRUCTOR: WD8MNX

COST: FREE Instruction.

License Manual (\$25--cash) available from instructor at first session.

FCC License Exam at the last class session (\$15 fee)

Pre-registration is Necessary

Prerequisite: General Class Amateur Radio License, or CSCE showing Element 3 exam credit.

Registration/Information: Contact W9NPI @arrl.net

The next one-day Technician Class amateur radio license class will take place on Saturday, September 17, 2016 at the Pittsfield Branch of the Ann Arbor District Library, 2359 Oak Valley Dr, Ann Arbor, MI 48103. The class will start at 9:15 am and run until 3:30 pm, at which time the license exam will be given.

There is no charge for the class, but please register in advance. This is required because I like to limit the number of students to 20 or fewer, so that each student gets enough attention, and so that the volunteer examiners can administer the test expeditiously. To register for the Saturday, September 17 class, send an e-mail to cwgeek@kb6nu.com. When I get your registration, I will put you on another e-mail list and send

you more details a week or two before the class.

After you register, download my study guide from

http://www.kb6nu.com/study-guides/. The PDF version is free. Before the class, read through the study guide a few times, then take some online practice tests. If you don't pre-study, I can guarantee that you'll have a hard time passing the test.

Finally, just show up on Saturday, September 17. I'll be sending out more details, such as the exact room where the class will be held and where to park, a week before the

If you have any other questions, please feel free to ask.

btw, you're getting this e-mail because at one point or another you expressed some interest in taking this class. You may have already even registered for a previous class, but for whatever reason you were not able to make it. If you have already gotten your license or are no longer interested, please just reply to this message and ask that I take your name off this list. Thanks.

73! <--ham lingo for "best regards"

Dan KB6NU

CW Geek, Ham Radio Instructor Read my ham radio blog at http://www.kb6nu.com

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 Happenings

However, since our 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 lunnmalcolm@me.com

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-clubsstate.php?State=MI

Experimental Aircraft Association

https://www.eaa.org/en/eaa/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 2016 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

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.

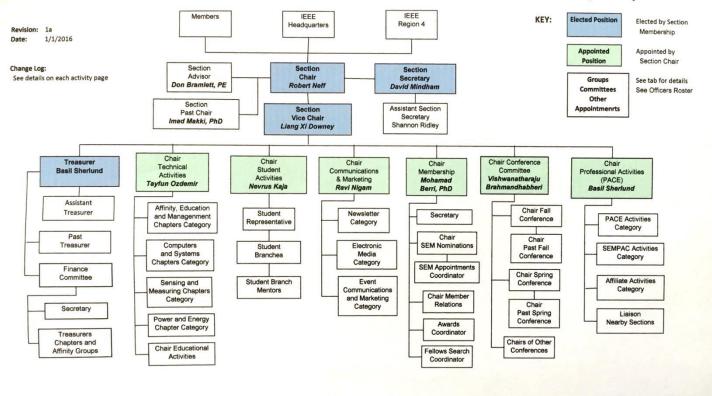
However, members of the section may have multiple technical interests and would like to have meeting information of other chapters. In order to communicate the meeting dates of all the chapters, affinity groups etc., to our members to facilitate their attendance, leaders of the groups are requested to 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 <u>SEM Organization Chart</u>, in PDF format, from the SEM Website at: www.ieee-sem.com

Then, click on "About SEM" Tab, then, click on "Current Officers"

SEM 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 below.

Note: <u>All</u> 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.):

Thursday September 1st
Thursday November 3rd
Wednesday December 7th

F2F Meeting Schedule:

Wednesday October 5th

Wednesday January(2017) 4th

More information for F2F meetings will be emailed in a timely manner before the meeting dates.

Contact <u>David Mindham</u> the SEM Section Secretary.at: dmindham@ieee.org

for more information.

Also consider checking for additional information as the meeting dates approach at the SEM website (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 of Wavelengths, the monthly newsletter of IEEE-SEM, may be found on the IEEE-SEM website http://sites.ieee.org/sem/aboutsem/sem-history/wavelengthsmagazine-archive/. Click on the "Wavelengths" button in the top row of selections. Comments and suggestions may be sent to the Technical editor at lunnmalcolm @me.com. The full e-Wavelength's team is shown below in chart. 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 is presented to our readers.

The Wavelengths Annual Publication Plans for Articles

and Personal Profiles are 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 members to share the duties, and help keep the newsletter alive and lively by providing alternative points of view.

Review:

Each month Jim Woodyard reviews the current issue, adding more "formal" English and correcting typos 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!

Join the Team:

If you feel you might like to join the team, or would like to train with us, Contact: lunnmalcolm@me.com.

Annual Publication Plan for general Articles

Month	AG's	Ch's	Ch's	SB's	Specal Notice	Reporting Events	Monthly Focus	<u>Awards</u>
Jan		1		ΟU	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	<u>``</u> ~<((Nominations Call	MD-Webcasts	Students Issues	Region 4
Aug	WIE	8		<u>`</u> >-<<	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	ΥP	11	17	WSU	ELECTIONS!		Humanatarian	
Dec		12		U/D-M	IEEE-Com Apmts.	Fall Conference	Happy Holidays	

Annual Publication Plan for Personal Profiles

Month	<u>Profiles</u>	<u>Profiles</u>	<u>Committees</u>
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
D ec		Editor-WL	

e-Wavelength Producdtions	
Editor in Chirf	Nevrus Kaja
Mkting & Publicity Manager	Michael Miller
Technical Editor	Malcolm Lunn
ListServ Operations	Christopher Johnson
Advitity Updates	Kimball Williams
Publications Review	James Woodyard



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 "f" 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 ConferencesRaju Brahmandhabheri

Chair Educational Activities
Chaomin Luo

Chair Finance Nevrus Kaja

Chair Membership Mohamad Berri

Chair Nominations Kimball Williams

Chair Professional Activities
Basil Sherlund

Chair Student Activities Nevrus Kaja

Student Representative Maoxu Liu

Chair Technical Activities
Tayfun Ozdemir

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 Wednesday or 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 Engineering Society of Detroit, Southfield, MI 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

Page