

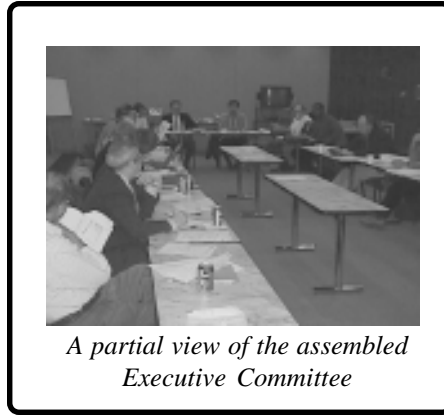


WAVELENGTHS

An evening with the Executive Committee

by Kimball Williams, IEEE/SEM Vice Chair

(Dear Members: The following article is one that I began writing almost two years ago when my participation on the Southeastern Michigan Executive Committee was strictly as the facilities host for the meetings. Many of the members within the committee have changed functions or moved on to other activities, but the essence of the operation and character of the committee remains the same. I offer you one person's view of the ExCom, and hope you will be encouraged to learn more on your own. kw)



A partial view of the assembled Executive Committee

Once each month, members of the Southeastern Section Executive Committee (ExCom) gather to report, evaluate, discuss and plan for progress toward the section's goals. After a light 'working' dinner, the ExCom members convene in formal session under the direction of chairman.

I used to think of the ExCom as some cohesive, faceless group of "Officers of the Institute". As I have come to know each of the members, I have found them to be a delightful group of individuals, each with their own story and character.

The make up of the ExCom consists of the section officers and directors, chapter officers, the support staff and guests. The guests are any IEEE section members who wish to participate in the activities of this dynamic

Continued on page 4

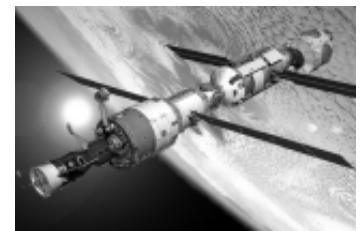
IEEE/SEM 2001 Spring Section Meeting Announcement

Visteon
March 28, 2001
17000 Rotunda, Dearborn MI

NASA engineer
John Dunning
John Glenn Space Flight Center

The IEEE Southeastern Michigan Spring Section meeting will take place on March 28, 2001 at Visteon (17000 Rotunda) in Dearborn and will feature a walk through of the Space Station Alpha power system by NASA engineer John Dunning of the John Glenn Space Flight Center. The next best thing to actually flying in space must be helping to design the world's first true space station.

a subject that is truly "pushing the edge of the envelope". I look forward to seeing you all there at 17:30 (5:30 PM) to register and enjoy the social time before our Chapter presentations.



Please plan to join us for an exciting presentation about Kimball Williams, IEEE/SEM Vice Chair

DEADLINES: Return 2001 Spring Section Meeting Registration Form before March 20
Return 2001-2002 Section/Chapter Officer Ballot before March 15

TABLE OF CONTENTS

Spring'01 Section Meeting	1	Calendar of Events	3	Gold Award Banquet	8
Vice Chair's Column	1,4-5	Empowered to Provide Solutions ...	6	NEW Turns 50	9
Chapter VII Update	2	MSU Student Chapter	7	Meeting Registration Form	10
				2001-2002 Official Ballot	11,12

Chapter VII: Power Eng. & Ind. Apps

by Tom Powell, Chapter Chair



Michigan.

The technical chapters are challenged annually to develop a plan for activities. These plans are traditionally formed in June for the program year July through June. Last June, chapter leadership and several members of Chapter VII participated in the annual planning.

I have been involved in leadership of the chapter since 1993. I would like to see more involvement with the members at large in the planning and execution of chapter events. This is because we typically see less than 30 members for each meeting. The following notes summarize the planning meeting held this year, and comments are requested from all members or interested people. Please send the comments to tompowell@ieee.org.

The first thing is that we want to have fun while enjoying the technical details of our careers. The overwhelming motion to combine a technical meeting with a social event suggests that we are all working far too many hours and would like to have a little fun once in a while! Certainly an excellent concept to work from!

Chapter VII of IEEE Southeastern Michigan represents members who are interested in Power Engineering or Industrial Applications. Members are typically employed by utilities, consulting engineers, facilities engineers, or equipment manufacturers. All who are interested in the application or use of power equipment are welcome to join or attend. Chapter VII currently has over 600 members within southeastern

Some ideas for future meetings included:

- * Tour of the Renaissance Center Power System, combined with a dinner meeting.
- * Detroit Salt Mine Tour
- * Midfield Terminal Tour and Metro Park Cookout (2002)
- * Ford Rouge Plant Tour
- * Lightning Protection Presentation - Michigan Lightning Protection Company
- * Tour of Chrysler Auburn Hills Tech Center from a facility design perspective
- * Tour of Comerica Park electrical facilities and ballgame
- * Power House of Greenfield Village Tour/IMAX and dinner at Eagle Tavern
- * Power House Tour of U-M Dearborn
- * Tour of Chelsea Proving Grounds
- * Student Presentation of a Senior Design or Research project
- * Joint Session with Chapter IX on either fuel cells or battery technology
- * Golf outing combined with a speaker and lunch.
- * Wine tasting and technical speaker (could be more interesting if speaker went on after wine tasting)

02/01 - Student Presentation of a Sr. project during National Engineer's Week

02/01 - Joint Meeting with Chapter IX Vehicular Technology on Fuel Cells at Spring Meeting

The Power Engineering Section is having a relay subcommittee meeting in Dearborn, MI in late April, 2002. Our section of IEEE is committed to helping with registration, spouse activities, and local support. This is a great opportunity to see what happens at a meeting like this without needing to travel, as well as making Detroit look great. If you are interested in helping, please email tompowell@ieee.org. Planning meetings started in December, so there is still time to get on board!

Please let me know what type of speakers and activities you would like to see the section sponsor, as well as how you can help with the coordination of the activities. Happy New Year!

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IEEE Southeastern Michigan Section Executive Committee

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Chair	John Miller	(313) 322-7486
Vice Chair	Kimbal Williams	(248) 354-2845
Secretary	Walter Schilling	(313) 390-9981
Treasurer	Mohamed Zohdy	(248) 370-2234

Administrative Activities

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Section Advisor	Don Bramlett	(313) 235-7549
Student Activities	Edzko Smid	(248) 370-2082
Professional Act.	Tarek Lahdhir	(810) 947-2398
Technical Activities	Suleiman Barada	(313)-323-7996
Educational Act.	Ece Yaprak	(313)-577-8075
Membership	Maurice Snyder	(734)-973-1300

IEEE/SEM Chapters

- I Circuits & Signal Processing:** Acoustics, Speech & Signal Processing (ASSP-01), Circuits & Systems (CAS-04), Information Theory (IT-12) and Control Systems (CS-23)
- II Vehicular Technology:** Vehicular Technology (VT-06)
- III Comm. & Aero. Electronics:** Aerospace & Electronics Systems (AES-10) and Communications (COM-19)
- IV Trident:** Electron Devices (ED-15), Microwave Theory & Techniques (MTT-17) and Antennas & Propagation (AP-03)
- V Computer:** Computer (C-16)
- VI Geoscience & Remote Sensing:** Geoscience & Remote Sensing (GRS-29)
- VII Power Eng. & Ind. Apps.:** Power Engineering (PE-31) and Industrial Applications (IA-34)
- VIII EMC:** Electromagnetic Compatibility (EMC-27)
- IX Power & Ind. Electronics:** Power Electronics (PEL-35) and Industrial Electronics (IE-13)
- X Engineering Management:** Eng. Management (EM-14)

Wavelengths

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IEEE SEM Communications Committee

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1/4 page	\$1000	\$160
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1 page	\$4000	\$650

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POSTAL INFORMATION NOTICE

The newsletter of the Southeastern Michigan Section of IEEE, "Wavelengths", (USPS 878-660), is published monthly 8 times per year except June, July, August & December by the Institute of Electrical and Electronics Engineers, Inc. Headquarters: 345 East 47th Street, New York, NY 10017-2394. \$1.00 per member, per year (included in annual dues) is designated for each member of the Southeastern Michigan Section. Periodicals Postage Paid at New York, NY and at additional mailing offices.

Visit the following IEEE World Wide Web sites:

Section: ewh.ieee.org/r4/se_michigan/ieeesem

IEEE: www.ieee.org

IEEE Region 4: ewh.ieee.org/reg/r4/



Calendar of Events

Mon.-Thurs.
Feb. 5-8th Event: **Advanced Automotive Battery Conference**

Location: Monte Carlo Hotel, Las Vegas

Contact: John Miller, 313-322-7486
jmille24@ford.com

Monday
Feb. 5th Event: **SEM Executive Committee Meeting**

Time: Dinner at 6:00 p.m., Meeting 6:30 p.m.

Location: Eaton Corporation, 26201 Northwestern Highway, Southfield, MI

Contact: Kimbal Williams, 248-354-2845
k.williams@ieee.org

Feb. 18-24th Event: **National Engineers Week**

Wednesday
Feb. 21st Event: **Gold Award Banquet**

Time: Cocktails 6:00 p.m., Dinner 7:00 p.m., and Awards Program 8:00 p.m.

Location: 2601 West Big Beaver Road
Troy, MI

Contact: Don C. Bramlett, 313-235-7549
d.bramlett@ieee.org

Monday
March 5th Event: **SEM Executive Committee Meeting**

Time: Dinner at 6:00 p.m., Meeting 6:30 p.m.

Location: Eaton Corporation, 26201 Northwestern Highway, Southfield, MI

Contact: Kimbal Williams, 248-354-2845
k.williams@ieee.org

Wednesday
March 28th Event: **IEEE Spring 2001 Section Meeting**

Sponsor: Southeast Michigan Section IEEE

Location: Visteon, Dearborn, MI

Contact: Kimbal Williams, 248-354-2845
k.williams@ieee.org

June 7-9th Event: **The Second IEEE Electro/Information Technology Conference**

Location: Oakland University, Rochester MI

Contact: Dr. Subra Ganesan, 248-370-2260
ganesan@oakland.edu

2001-2002 Section/Chapter Officer Ballot Deadline - Thursday March 15th

Spring Section Meeting Registration Form Deadline - Tuesday March 20th



NATIONAL ENGINEERS WEEK® 2001
FEBRUARY 18-24

An evening with the Executive Committee

Continued from page 1



*Kimbal Williams
IEEE/SEM Vice Chair*

body. (By the way, when you are a first time visitor to the ExCom, dinner is free!)

Leadership

With a group such as the ExCom I do expect to see leadership in action. I am never disappointed.

Beginning with the first section chair that I met when I dropped in for a "Visit"

several years ago, each chair of the ExCom that I have known has demonstrated a vision of a progressive future for the section and a passionate desire to move forward toward that vision. The current chair (Jim Woodyard) [was] no exception.

This sense of leadership is contagious among the rest of the ExCom. Almost every meeting sees progress reported toward a current goal or some new initiative begun that can make a real difference in advancing the interests of the members and of the section. These initiatives come from both ExCom members and non-members as well.

With all this discipline, leadership and dedication you might expect this



Our officers, like treasurer, Dr. Mohamad Zhody, are keenly aware of and involved in everything going on around the table, and passionately involved in those issues that affect not only our chapters, but also the students and the student branches.

for fun!

A typical meeting begins weeks before the committee actually gathers together. Minutes of the previous meeting are posted on the section web site and our secretary (Walt Schilling) lets everyone know that they are available for download. About two weeks before the meeting Walt sends everyone a copy of the next meeting's agenda. This advance notice reminds everyone to put the meeting on their calendar and to begin preparing their reports.

The prospect of listening to a series of reports on section activities has been known to send otherwise some who might otherwise be dedicated members running for the hills. The idea sounds boring. However, the reality is completely different.

There is almost no element of section operation that is not being evolved as continuing operations are managed and new initiatives explored and put in place. Each has options that must be explored, constraints that must be dealt with and opportunities that require action. It is that action that most typifies the activities of the board.



*Walter Schilling,
our current secretary, is listening to the debate under way while typing furiously to keep up with his recording of all the activity going on around him.*

No amount of planning has meaning without actions that follow up on the intentions. The executive committee is typified by a set of officers that have a very 'can do' attitude. Don't get me wrong. There are always issues that require creative management to overcome obstacles. But this executive committee makes it happen, and keeps making it happen time after time.

Since it is impossible to have every member of the section attend each ExCom meeting, the positions of 'Director' have been established to

provide a liaison function to various elements within the section. A prime example is that of the Director of Student Activities, Edzko Smid, who coordinates activities at the section level with our student branches at the ten universities in the section.

Reports from section officers and directors reflect the broad range of interest and activity within the section. However, the heart of the section reports come from our chapter officers who report on the individual chapter activities. It is in our chapters and that the main activity for our section members occurs and the participation of one of the chapter officers from each chapter at each ExCom meeting reflects the range and level of that activity.

To assist the chapters in providing a series of relevant programs and presentations for their members, the section sponsors a new chapter officer orientation and training meeting each year. At this meeting,

new (and recycled) officers are introduced to the various support elements within the section, the region and within IEEE in general that can help them in putting on quality programs that reach out to all the members of their chapter. A portion of that meeting is devoted to helping each chapter develop a Yearly Plan that blocks

*Sandy Hunter and Lubna Khaled
compare notes for the next
issue of Wavelengths*



An evening with the Executive Committee



Past section officers, Sandy and Mark Hunter discuss ways to deal with an issue.

out the type and level of activity the officers will bring back to their members during the next yearly series of chapter meetings.

To help the chapters and student branches achieve their yearly goals, the section directors provide continuing aid, guidance and assistance throughout the year. This means that each director must touch bases with various elements

within the section every month to ensure that nothing 'falls through the cracks'. A typical response to the question of 'how is it going' to one of the section directors is usually 'very busy!' and they mean it.

The continuing activity that follows each ExCom meeting is reporting on the section's plans and progress to our membership. This takes place through the media of our monthly newsletter 'Wavelengths'. In addition to reporting to the ExCom, the officers also report to our members by writing articles to be published in *Wavelengths*. The articles are coordinated through the *Wavelengths* 'Annual Plan' which defines the minimum of who reports on what and when. This ensures a regular reporting to the membership that reflects a balance from all the different elements within the section. Of course, special articles of immediate interest are always included in issues to keep members informed of developments and concerns.

Publishing the newsletter is a continuous activity that requires continuous attention to make sure that each of our over 4500 members are reached every month of the year [not April, June, July, Nov.]. A report from the editor of the *Wavelengths* is an important part of each ExCom meeting.

Between meetings and issues of *Wavelengths*, members can access information about the section and section activities by dropping in on the Section web page 'on-line'. The web page lists current activities (Calendar of Events) as well as the history of the section. Past issues of the *Wavelengths* newsletter may be printed directly from the web page as well as most of the forms and other documents that make the section function on a monthly basis. Also, a complete listing of section officers along with their contact information can be obtained by clicking on the 'Officers' heading near the top of the web. If you have yet to explore the Section web page, please take time to do so. You might be surprised at how much information is available to you instantly. The web page is located at www.ewh.ieee.org/r4/se_michigan.

Before, and after each ExCom meeting you will also notice small groups of people talking about section business. This reflects the fact that most of the business of the section does not occur at

ExCom meetings, but is conducted by the officers between the meetings. Also, what we don't see at the ExCom meetings is the various other meetings of sub-committees and task forces that also go on between the main meetings. Your section is a busy section, and it is reflected in the level of intense activity that goes on when the meeting room is empty.

No matter how busy the meeting gets, and no matter how intense the level of effort involved in keeping the section moving forward, there is always time to greet old friends and catch up on who is doing what and where. The ExCom is composed of people who like to work with people, and as such are fundamentally gregarious by nature. To say that they are friendly would be an understatement of the first order. This is why each meeting is preceded with a light dinner to give everyone a chance to socialize and catch up with each other before they get down to the business at hand.



Section ExCom meetings are open to all members of the section to attend as guests of the committee. If you haven't yet had the opportunity to meet the officers of your section, this is an open invitation to drop in and get to know them. The ExCom meetings are listed in the "Calendar of Events" section of each *Wavelengths* newsletter publication and usually take place on the first Monday or Tuesday evening of each month. If you need directions, you can call the contact person (host), or look on the section web site www.ewh.ieee.org/r4/se_michigan for more information.

Drop by and join us for dinner. We look forward to having a chance to visit with you.

Kimball Williams, IEEE/SEM Vice Chair
k.williams@ieee.org

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Chapter VII: Empowered to Provide Solutions to Societal Issues

by Charles Albrecht, Technical Vice Chair



I represented the Southeastern Michigan IEEE Chapter VII (Power Engineering and Industrial Applications) at the IEEE-PES Chapters Congress 2000 last summer and thought that with the start of a new year, I would take the opportunity to reflect on what a great, as well as eye opening experience it was. Think you're the only one who has less and less time to devote to professional activities outside the workplace? Are you finding it more difficult than ever before to attract new and maintain existing members of your IEEE chapter? Is your company no longer supporting your IEEE activities the way it once did? If you answered "yes" to any of these questions, you are not alone. The national chapter of IEEE-PES held an international summit last summer to address these issues and allow for peer commiseration.

Realizing the negative impact of a declining membership and limited recognition of members, the IEEE-PES national chapter decided to hold its second Chapters Congress at the Madison Renaissance Hotel in Seattle last July. It was a great demonstration of commitment by the national PES chapter to all of the local chapters with the goal of training PES Chapter Chairs, prioritizing local Chapter issues, and providing a forum for networking with other Chapter Chairs as well as the PES Governing Board. Attendance was very high as more than 100 IEEE-PES chapters were represented, half from foreign countries.

Amazingly for IEEE-PES, the shortage of time and members comes when available funding from the national chapter is nearly at an all time high! The national chapter of IEEE-PES with the goal of easing local chapter monetary burden is sponsoring several programs to do just that. These programs range from incentive awards up to \$1000 for chapter performance to subsidized travel expenses and fees for nationally renowned speakers for technical meetings.

In an effort to maximize its financial resources, the national chapter put on a forum by which it could most effectively address the most pertinent issues facing the various regional IEEE-PES Chapters. Breakout groups were formed to brainstorm and log the most common problems being experienced by each region. These issues were then presented to the groups again with the task of soliciting the best-recommended solutions, which the national chapter could influence.

All recommendations from the individual breakout sessions were gathered by the national chapter moderators and totaled. The top recommendations were then passed back out to all attendees to be ranked in order of importance. In honor of David Letterman, I have listed the Top 10 Recommendations from the local chapters for the national chapters to implement in descending order.

10. More effectively communicate the PES financial programs and incentives via meetings and web site.
9. Provide a more timely notice of administrative information that includes new member data, member contact data, new incentive programs in order to help facilitate participation by new members.
8. Provide PES support to students by means of scholarships/awards in order to promote the power profession.
7. Provide an annual activities package including a guide and check list that includes available award information and other pertinent national program information.
6. Hold one meeting each year between national chapter reps and regional chapter chairs each year.
5. Provide free IEEE and PES technical videos and CD-ROMs to both active and student branch chapters.
4. Develop informative packages for industry in order to tout the advantages of PES membership.
3. Subsidize chapter officer attendance dues at conferences.
2. Hold another global Chapters Congress that includes all 10 regions.
1. Provide tangible incentives to chapter officers for service such as waived or reduced IEEE-PES dues, discounts on publications...

It is now up to the national chapter to implement these recommendations into its operating practice for the upcoming year. The forum provided an outstanding opportunity for individuals to voice their concerns and to have them validated by mass support.

Surprisingly, the overall theme emanating from the chapter recommendations is the need for more financial support and better communication from the national chapter to the local chapters of how to obtain that support. While increased national funding will indeed reduce some of the financial burden of belonging to a professional society such as IEEE-PES, it will not directly solve the problems of lack of time, lack of corporate support, and fewer members. Alas, the task of providing interesting and well-attended meetings and events, while recruiting energetic and productive members, still resides with the local chapter, which must operate more efficiently than ever while keeping in touch with the needs of its membership.

Please direct any comments to me at calbrecht@patrickengineering.com or by telephone at 734-632-1190.

MSU Student Chapter Speaker and Career Fair: Career Growth and Professional Development



by Edzko Smid, Director of Student Activities

The Michigan State University Student Chapter of IEEE, with the generous support of several sponsors (including Dow, EDS, Hewlett-Packard, and Microsoft) is currently planning to host our first annual Student-Professional Awareness Conference (S-PAC) for Monday, February 19th as an afternoon/evening event. Merrill W. Buckley, Jr., the 2000 IEEE-USA President, is the featured speaker, presenting advice on "Career Growth and Professional Development". We are currently in the process of placing 2-3 additional local speakers on the agenda for this event.

Hors d'oeuvres will be served before and after the speaker presentations. While enjoying Hors d'oeuvres, students can gather information and meet with sponsoring company

representatives at a small career fair. Door prizes will also be provided. We welcome students, faculty, and interested professionals from the southeast Michigan area to attend the conference. The conference promises to be a great opportunity for students and professionals to learn from distinguished engineers while interacting and meeting with company representatives.

Students are encouraged to submit a resume for inclusion in a resume CD that we will supply to sponsoring companies. Non-MSU students will be charged \$5 per person.

Contact Laura Luckscheiter at lucksch1@msu.edu for more information.



First Annual

Advanced Automotive Battery Conference

An assessment of the emerging 42V and hybrid electric vehicle battery technology and market

February 5 – 8, 2001 Monte Carlo Resort Hotel, Las Vegas

Full Day Tutorial - Feb 5

High-power battery design, performance, life and cost.

Half Day Session Topics - Feb 6 through 8

- Market Drivers
- Advanced Vehicle Technology
- Advanced Pb-Acid Batteries
- High-Power NiMH Batteries
- High-Power Li Ion Batteries
- Longer-term Electrical Power Systems

Selected Panel Speakers

(Market Drivers and Vehicle Technology Sessions)

- G. Gutmann, Mgr. Electrochem. Storage, DaimlerChrysler
- T. Keim, Director, MIT 42V Consortium
- M. Kindig, President, Tier One
- A. Lloyd, Chairman, California Air Resource Board
- J. Miller, 42V Integration Manager, Ford
- T. Miyamoto, Manager Adv. Powertrain, Nissan
- N. Sato, Chief Engineer, Honda R&D Co
- T. Sekimori, General Manager, HEV Engineering, Toyota

REGISTRATION AND INFORMATION

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IEEE/SEM Honors Outstanding Engineer at Gold Award Banquet

by Don C. Bramlett, PE,
IEEE/SEM Section Advisor &
ESD Affiliate Council Representative

Each year during National Engineers Week (NEW), the Affiliate Council of ESD, The Engineering Society hosts the Gold Award Banquet to honor a distinguished individual who exemplifies excellence and professionalism in the local engineering and scientific community. This year the Gold Award recipient is Dr. Jack Simon, Executive Director of the Environmental Research Institute of Michigan (ERIM).

The Gold Award Banquet also affords an opportunity for each Affiliate Society to honor a distinguished member of their local section or chapter before the broad engineering and scientific community of metropolitan Detroit. The IEEE/SEM Section will announce Fred Bauer of Ford Motor Company as the recipient of the 2000 IEEE/SEM Section Outstanding Engineer.

IEEE/SEM members are invited to attend the ESD Affiliate Societies' Gold Award Banquet, during National Engineers Week (NEW), to honor Dr. Simon and the affiliate societies' honorees and socialize with the other distinguished professionals who will be in attendance. The 30th annual Gold Award Banquet will be held on Wednesday, February 21, 2001, at the Somerset Inn, located at 2601 West Big Beaver Road in Troy, Michigan. The evening schedule includes cocktails (cash bar) at 6:00 p.m., dinner at 7:00 p.m. and the awards program at 8:00 p.m. The ticket price is \$40 per person, which includes dinner, desert and wine at the table. Reservations may be made by contacting Don C. Bramlett, PE at 313-235-7549 or by email at d.bramlett@ieee.org.

WANTED!!! Editor for Wavelengths

Responsibility:

1. Edit eight issues of Wavelengths per year
2. Suggest layout for issues
3. Work with Wavelengths Administrator to meet schedules
4. Advise IEEE/SEM ExCom on Wavelengths policy matters

Requirements:

1. Good command of English
2. Able to work with professionals
3. Interested in providing service to IEEE membership

Benefits:

1. Professional Development
2. Network with IEEE members in southeastern Michigan
3. Build a record of service to IEEE

Contact: Jim Woodyard at 313-577-3758 or woodyard@eng.wayne.edu

EMCFest '2001

A Colloquium and Exhibition on
*Practical Control of
Inductance in PCB's, Cables,
Connectors and Motors*

Monday, April 23, 2001

Dearborn Inn

Dearborn, Michigan

7:30 am - 8:30 am Registration &

Continental Breakfast

8:30 am - 5:00 pm Technical Sessions

5:00 pm - 6:30 pm Reception, Exhibits
& Demonstrations

Featuring

Industry renowned speakers:

Lee Hill, Jim Muccioli &

William Sullivan

The focus of this colloquium will be on practical methods of controlling the inductance at the PC board and system level. This will include connectors, cables and devices under the control of the electronic system.

Registration Fees

\$100 prior to March 1

\$150 prior April 1

\$175 after April 1 and at the door

Non-IEEE attendees, add \$25

ATTENDANCE IS LIMITED

***** Register early *****

Fees include one copy of the colloquium record, continental breakfast, a 'networking' lunch and a "Happy Hour" reception immediately following the Technical Sessions.

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Vendor tabletop exhibits of the latest EMC related products and services.

For further information:

Kimball Williams: Co-Chair Technical Program Ph: 248-354-2845 e-mail: k.williams@ieee.org

Janet O'Neil Co-Chair Exhibits

Ph: 425-868-2558 e-mail: j.n.oneil@ieee.org

Home page: <http://emc.eaton.com/emcfest2001.htm>

Sponsored by the Southeastern Michigan Chapter of the IEEE Electromagnetic Compatibility (EMC) Society.

National Engineers Week is turning 50!

National Engineers Week takes place each year at the time of George Washington's birthday. The nation's first president had the background of an engineer and land surveyor and established the first call for an engineering school, which led to the founding of West Point. Founded in 1951 by the National Society of Professional Engineers, the week is now celebrated annually by thousands of engineers, engineering students, teachers, and leaders in government and business. In 1990, the National Engineers Week consortium expanded its scope and now includes more than 100 engineering, scientific, and education societies, and major corporations dedicated to increasing public awareness and appreciation of technology and the engineering profession. The Co-chairs for 2001 are the National Society of Professional Engineers (NSPE) and IBM.

The purpose of National Engineers Week is to help increase public understanding of the profession.

Several national programs already in progress this year include:

Discover"E": Engineers visit K-12 classrooms and show practical applications of math, science and engineering and talk with students about what engineers do. Additional information is available at: www.discoverengineering.org

National Engineers Week Future City Competition™: Engineer-volunteers help seventh-and eighth-grade students design and build computer-generated cities of the 21st century. Winners of local contests compete in Washington, D.C., during National Engineers Week. Additional information is available at: www.futurecity.org

Engineering Goes Public: Engineers and engineering students sponsor special exhibits at the great American village square: the shopping mall. Demonstrations, contests and family hands-on activities also run in local science centers and libraries. Full information is available at www.eweek.org.

Automotive EMC Component Test Laboratory


- European Standards 95/54/EC and 72/245/EEC
- DaimlerChrysler Certified for PF-9326
- Ford Certified for ES-WX7T1-A278-AA and -AB
- General Motors GM9100, GMW 3097GS, GMW 3100GS
- SAE J1113, J1725, J1455
- CISPR, IEC, ISO and EN Testing
- A2LA and NVLAP ISO Guide 25 Certified Laboratory
- MIL-STD 461
- NARTE Certified Engineers and Technicians




Eaton Innovation Center
EMC Test Laboratory
26201 Northwestern Highway
Southfield, Michigan 48076
800-341-4892 Toll Free
248 354-5245

Visit our web page at
<http://www.eaton.com/EMC>










January 1, 2001
EN 61000-3-2:1995 Harmonic Current
and EN 61000-3-3:1995 Flicker
Requirement became mandatory


July 1, 2001 three standards become mandatory:

- EN 50082-1:1997 EMC Generic Domestic Immunity Standard
- EN 61326:1997 Product Family Standard for Manufacturers of Measurement Control and Laboratory Equipment
- EN 55024:1998 Immunity Product Standard for Information Technology Equipment (ITE)

Need some help to determine which changes apply to your product?

Call 847-537-6400 & ask for Steve or Paul



DLS
ELECTRONIC SYSTEMS, INC.
1250 PETERSON DRIVE, WHEELING, IL 60090-6454 • PHONE 847-537-6400 • FAX 847-537-6408 • www.dlsemc.com

IEEE/SEM 2001 Spring Meeting Registration Form

Complete and mail form with an early registration fee of \$30 per person. The registration fee includes technical session attendance and dinner. If this form is for multiple people, you must provide full contact information for one person plus Name, Technical Session Preference, and Meal Selection for each additional registrant. Please **make check payable to IEEE/SEM** and forward along with a completed registration form before March 15, 2001 to:

Sat Basu
PO Box 4928
Troy, MI 48099

There will be express check in for pre-registered attendees.

Fees
Pre-Registration \$30 US
Late Registration \$35 US

Student Branches \$15 US

Deadline
Received by mail before March 12, 2001.
Contact Sat Basu at 313-235-6523 or satbasu@ieee.org by 5 p.m. March 15, 2001.
Register & pay through student branch.
Contact: Edzko Smid at 248-370-2082 or smid@oakland.edu by March 15.

Name: _____
Company: _____
Address: _____
City/State/ZIP: _____
Phone Number: _____ [] H [] W

Tech. Session #: _____

Meal Selection: [] None, [] Chicken, [] Vegetarian

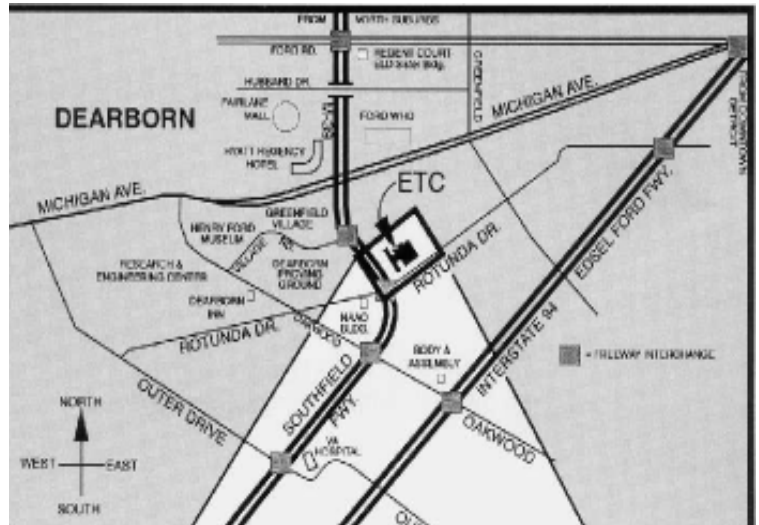
Total amount enclosed: \$ _____ Registration (\$30 per person)

Please type or print

Additional Registrants (Non-Students Only) Name	Company	* Tech. Session #	Meal Selection (one only)			Fee \$30 Each
			None	Chicken	Vegetarian	

Directions to the 2001 IEEE/SEM Spring Section Meeting at Visteon

The Visteon Technical Center is located at the intersection of the Southfield Freeway and Rotunda Drive in Dearborn, MI. Rotunda Drive is the First exit South of Michigan Avenue on the Southfield Freeway. A map can be found on the Southeastern Michigan website, http://www.ewh.ieee.org/r4/se_michigan/.



**INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
SOUTHEASTERN MICHIGAN SECTION - 2001-2002 OFFICIAL BALLOT**

BALLOT INSTRUCTIONS (ballot is located on the back side of this page):

- 1) Enter your name, membership number and mailing address in the space above the ballot if it is not printed there already.
- 2) Review Voting Eligibility Requirements for restrictions applying to Part 1 and Part 2.
- 3) After voting, sign the ballot on the line at the bottom of the page.
- 4) Fold ballot on dashed lines with the ballot names inside and address below on the outside, tape the flap to seal the ballot.
- 6) Place stamp, and mail before **March 15, 2001** in order to be counted as valid.

VOTING ELIGIBILITY REQUIREMENTS:

- Student and Associate members are not eligible to vote. Only IEEE/SEM Full Section Members for 2001 are eligible to vote.
- All voting members may vote for Section Officers and Section Directors presented in Part 1 of the ballot.
- You must be a member of at least one of a chapter's societies to vote for that chapter's officers in Part 2 of the ballot.
- Vote for a candidate by checking the box to the left of the candidate's name. You may vote for only one candidate per office.
- Write-in candidates are accepted for any office. Only full members may hold office. Areas are provided on the ballot for offices without candidates. To submit other write-in candidates place the office title and candidate name in the area provided below. Additional write-in candidates may be submitted on a separate sheet of paper. Sign the sheet and attach it to this ballot.

IEEE/SEM Election Ballots

Jim Woodyard

Wayne State University
Department of Electrical & Computer Engineering
5050 Anthony Wayne
Detroit, MI 48202-3902

Office Title	Write-In Candidate Name



www.eweek.org

PART 1: SECTION OFFICER & DIRECTOR POSITIONS
Section Officers and Directors
CHAIR: Maurice Snyder (Applied Dynamics International) **SECRETARY:** Walter Schilling (Visteon)
VICE CHAIR: Kimball Williams (Eaton) **TREASURER:** Donald Silversmith (Wayne State Univ.)
 Mohamad Zohdy (Oakland Univ.) **EDUCATIONAL ACTIVITIES:** John Shen (U-M Dearborn)
STUDENT ACTIVITIES: (Please write in a candidate.)

PART 2: CHAPTER OFFICER POSITIONS

CHAPTER I: Signal Processing (SP-001), Circuits & Systems (CAS-004), Control Systems (CS-023) and Information Theory (IT-012)
CHAIR: Hoda Abdel-Aty-Zohdy (Oakland Univ.)
VICE-CHAIR: Asaad Makki (Ford Motor) **SECRETARY/TREASURE:** _____

CHAPTER II: Vehicular Technology (VT-006)
CHAIR: Richard Tengler (Visteon)
VICE-CHAIR: Wei Zhan (TRW Automotive) **SECRETARY/TREASURE:** Freeman Gates

CHAPTER III: Aerospace & Electronic Systems (AES-010) and Communications (COM-19)
CHAIR: Robert Desoff (Ameritech [Retired])
VICE-CHAIR: Thomas S. McKown (Consumers Energy) **SECRETARY/TREASURE:** _____

CHAPTER IV: (Trident Group) Antennas & Propagation (AP-03); Electron Devices (ED-15); Microwave Theory & Techniques (MTT-17)
CHAIR: Lisa M. Anneberg (Lawrence Tech. Univ.)
VICE-CHAIR: Joseph Burns (Veridian-ERIM Interntl) **SECRETARY/TREASURE:** _____

CHAPTER V: Computers (C-16)
CHAIR: Subramaniam Ganesan (Oakland Univ.)
VICE-CHAIR: _____ **SECRETARY/TREASURE:** _____

CHAPTER VI: Geoscience & Remote Sensing (GRS-29)
CHAIR: Robert Onstott (Veridian-ERIM International)
VICE-CHAIR: Leland G. Pierce (U of M EECS Dept.) **SECRETARY/TREASURE:** _____

CHAPTER VII: Power Engineering (PE-31); Industrial Applications (IA-34)
CHAIR: Chuck Albrecht (Black and Veatch)
VICE-CHAIR: Thomas Powell (McNamee Porter Seely) **SECRETARY/TREASURE:** Brian Harrington (Engle/Klaes)

CHAPTER VIII: Electromagnetic Compatibility (EMC-27)
CHAIR: Scott Lytle (Eaton Corporation) **VICE-CHAIR MEMBERSHIP II:** Mark Steffka (General Motors)
VICE-CHAIR MEMBERSHIP I: Michael Bosley (Visteon) **VICE-CHAIR PRESENTATIONS:** Graeme Rogerson (Defiance)
TREASURER: Kimball Williams (Eaton) **SECRETARY:** William Ashe (Troy Design)

CHAPTER IX: Power Electronics (PE-35); Industrial Electronics (IE-16)
CHAIR: Prakash Desai (General Motors)
VICE-CHAIR: Thomas Oho (Hitachi America, Ltd. R&D) **SECRETARY/TREASURE:** _____

CHAPTER X: Engineering Management (EMS)
CHAIR: Stephen Kishok (US TACOM)
VICE-CHAIR: Liang Downey (IBM) **SECRETARY/TREASURE:** Marty Biancalana (Veridian-ERIM International)

! Print name & member # at top of page
! Sign here to validate your ballot: _____