



WAVELENGTHS

IEEE/SEM 2002 Spring Section Meeting Announcement

by Kimball Williams Section Vice Chair

For the IEEE Southeastern Michigan Spring Section meeting (March 27, 2002) we will return to Visteon (17000 Rotunda) in Dearborn. Those who attended our last meeting at Visteon will remember what a great place it is for a Section Meeting.

NOTE: if you only wish to attend the technical sessions by our chapters before the dinner and main speaker, there is **no charge**. However, we need to have you register so that we may provide adequate accommodations for all our attendees. Register using the web site by opening the "Events" button on the SEM web page at: ewh.ieee.org/r4/se-michigan. Navigate down to the "Spring Section Meeting" and use a credit card to register. Alternatively, use the printed

registration form in this issue and a check.

For those attending our full meeting, our featured speaker will be Dr. Janie Folks, Dean of Engineering at Michigan State University. Dr. Folks will talk to us about "The Future of Engineering Education".

Please plan to join us for a unique presentation about a subject that is vital to the continued growth, business and economic development of our country. I look forward to seeing you all there at 17:30 (5:30 PM) to register and enjoy the social hour before our Chapter presentations.

Vice Chair's Column

by Kimball Williams

New Year's Resolutions for the IEEE SEM Section

What follows are comments and musings about our Section activities: what we are currently doing, what we want to do in 2002, and what we need help to do. Some of these New Year's resolutions are left over from last year. They got left behind when too much ambition caught up with too few workers. There is no particular order to these ramblings. So if you find your favorite topic near the end of this discussion, or not on this list at all, please remember that there is no intention to slight any effort. They are all important to us!

That was the wind-up, now the pitch: If any of these topics is of interest to you, please contact the lead on this effort and offer your assistance. We can all use help. And new ideas and points of view are always welcome.

Member Educational Survey

Lead: John Shen: Director of Educational Services,
E-mail: johnshen@umich.edu

To assess the educational needs of our members, Dr. Shen is preparing a survey of both our members and of the electronic related businesses in Southeastern Michigan. The intent of the survey is to guide the Section in preparing workshops, seminars, short courses and conferences that address the educational needs of our members and their companies.

To be successful, we will need the assistance of people familiar with the creation and analysis of surveys. This is not a skill



typically taught in EE departments, but if you have any experience or training in these areas, this project could use your help.

Future Cities Competition and Science and Engineering fair of Metropolitan Detroit

Lead: Don Bramlett: Section Advisor,
E-mail: d.bramlett@ieee.org

Each year, IEEE SEMI supplies judges to these competitions, helping to evaluate the work of the participating students. This is a wonderful opportunity to meet and work with your fellow engineers (other judges) and with the future engineers present at the events.

Don Bramlett will help you learn the ropes if you are a first timer. If you have done this before, you already know how rewarding an experience it can be, and I know you will be back when you have the opportunity.

By-laws Rewrite

Lead: Walter Schilling, Secretary,
E-mail: wschill11@visteon.com

As our Secretary, Walter Schilling is constantly bumping his head against our out-dated by-laws and is attempting to update them. To help in this effort, Walter needs people who understand the needs of the Section, IEEE guidelines and Robert's Rules of Order and can work with those in developing a working document that will help us do our jobs better.

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Call for Papers

The 7th IEEE Workshop on Power Electronics in Transportation WPET 2002

Sponsored by IEEE Society of Power Electronics and IEEE Southeast Michigan Section

October 24-25, 2002
Detroit, Michigan

Automotive systems represent one of the fastest growing areas of power electronics. The main applications range from control of traditional actuators to emerging electric and hybrid drivetrain technologies. The seventh IEEE Workshop on Power Electronics in Transportation (WPET 2002) will focus on various aspects of power electronic circuits and systems in automotive systems. The goal of this workshop is to provide an opportunity for the discussion in this area.

Areas of Interests

- Electric and hybrid drivetrains
- Motor drive and motion control
- Fuel cell technology
- Battery
- Inverters and converters
- 42V PowerNet
- Conventional load control
- Control systems
- On-board power management
- Power semiconductors
- CAD/CAE
- EMI/EMC
- Thermal management and power packaging
- Other related topics

Workshop Format

Thursday-Friday, October 24-25, workshop technical sessions and panel discussions. Welcome reception on Thursday night.

Deadlines

Submission of abstracts: May 15, 2002
Notification of Acceptance: July 1, 2002
Final manuscript due: Sept 1, 2002

Preparation of Abstracts

Prospective authors of papers are asked to submit a 50-word Abstract and a three to four page Digest (including figures, tables and references) of their planned presentation. Both Abstract and Digest should be double-spaced on 8 1/2" x 11" or A4 size paper. All authors should obtain company and governmental clearance prior to submission of abstract. The Abstract heading must include the title of the presentation, names and affiliations of all author(s) and the Corresponding Author's mailing address, telephone and fax number, and e-mail address. If there are multiple authors the corresponding author must be clearly identified. Electronic submission of the Abstract, Digest, and final manuscript is highly encouraged. Both Abstract and Digest should be submitted to:

Dr. John Shen
Dept. of Electrical and Computer Engineering
University of Michigan-Dearborn
4901 Evergreen Road
Dearborn, MI 48128, USA
313-593-5525 or johnshen@umich.edu
<http://www.engin.umd.umich.edu/ECE/~WPET>

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IEEE Southeastern Michigan Section Executive Committee

Officers

| | | |
|------------|--------------------|----------------|
| Chair | Maurice Snyder | (734)-973-1300 |
| Vice Chair | Kimbal Williams | (248) 354-2845 |
| Secretary | Walter Schilling | (313) 390-9981 |
| Treasurer | Donald Silversmith | (313) 577-0248 |

Administrative Activities

| | | |
|----------------------|-----------------|----------------|
| Past Chair | John Miller | (313) 322-7486 |
| Section Advisor | Don Bramlett | (313) 235-7549 |
| Student Activities | Hassan Hassan | (248) 204-2554 |
| Professional Act. | Tarek Lahdhir | (810) 947-2398 |
| Technical Activities | Suleiman Barada | (313) 323-7996 |
| Educational Act. | John Shen | (313) 593-5525 |
| Membership | | |

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)

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COPY DEADLINE: News items are due the first day of the month for the following month's issue, e.g. April 1 is the deadline for the May issue.

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| 1/4 page | \$1000 | \$160 |
| 1/2 page | \$1900 | \$300 |
| 1 page | \$4000 | \$650 |

(Second color, special sizes & placement quotes may be requested.)

POSTMASTER Send address changes to:

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Visit the following IEEE World Wide Web sites:

Section: ewh.ieee.org/r4/se_michigan

IEEE: www.ieee.org

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



Calendar of Events

Wednesday
March 27th

Event: 2002 Spring Section Meeting
Time: Registration and Social Hour 5:30 p.m.
Location: Visteon, 17000 Rotunda, Dearborn, MI
Contact: Kimbal Williams, k.Williams@ieee.org, 248-354-2845

Friday
April 5th

Event: Automotive Software
Location: Veridian Systems, Ann Arbor
Contacts: Liang Downey lxdowney@us.ibm.com, Steven Kishok kishoks@tacom.army.mil, or Martin Biancalana biancalana@ieee.org

Tuesday
April 5th

Event: Tour of TACOM
Location: TACOM, Warren, MI
Contacts: Liang Downey lxdowney@us.ibm.com, Steven Kishok kishoks@tacom.army.mil, or Martin Biancalana biancalana@ieee.org

Wednesday
April 10th

Event: Detroit Science Fair of Metropolitan Detroit (SEFMD)
Location: Wayne Hall on concourse level of Cobo Center, Detroit
Contact: Don Bramlett, d.bramlett@ieee.org, 313-235-7549



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Vice Chair Column

Continued from page 1

Advertising at SAE World Congress

Lead: Mohamad Berri, Director of Member Services,
E-mail: mberri@berri.com

As a professional courtesy, our sister society, the SAE, has provided us with a free booth at the SAE World Congress at Cobo Center in Detroit. (See the advertisement for this event elsewhere in this issue). This event runs from March 4 – March 7, 2002, and Mohamad will be at the booth providing literature on IEEE and SEMI activities to interested prospective new members.

If you are planning on attending the SAE World Congress, and have some time you can spend, please drop by the IEEE booth and help our Section by giving Mohamad a break and a chance to see some of the exhibits himself. I know he will appreciate the help, or at least a wave from another IEEE member.

Professional Development Conference & S-Pacs

Lead: Dr. Tarek Lahdhiri: Director of Professional Activities,
E-mail: t1007@ieee.org

Professional development conferences help professional engineers understand the forces that shape their careers, and give them the tools to succeed in the business world. Dr. Tarek Lahdhiri is working to prepare for regular Professional Development Conferences in Southeastern Michigan to give our members that 'edge' that makes their careers fly.

In addition to conferences for our regular members, Tarek and Dr. Hassan Hassan are also preparing for Student Professional Activities Conferences (S-Pacs) directed at the special needs of our Student Branch members. Needless to say these efforts will require people who are interested in professional activities, working with other professional engineers and students, handling logistic and organizational problems and working with some of our most energetic members for a valuable goal.

If this listing of projects and programs didn't find your 'hot button', stay tuned. I will continue the list next month. We are sure to find something for everyone by the time we are through.



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Dearborn Inn
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7:30 am-8:30 am Registration &
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8:30 am-5:00 pm Technical Sessions
5:00 pm-6:30 pm Reception, Exhibits &
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Featuring

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Registration Fees

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\$150 prior to April 1

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ATTENDANCE IS LIMITED

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Join SAE by February 1, 2002 and attend the SAE World Congress FREE! Visit the SAE World Congress web site or call the toll-free hotline for details.

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For event details including registration, program requests, special events, and more, visit us on the web at www.sae.org/congress, or call TOLL FREE 1-877/SAE CONG. (Outside the US and Canada, call 1-724-772-4027.)

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Chapter VIII Electromagnetic Compatibility (EMC)

By Scott Lytle, Chapter Chair

I would like to take this opportunity to tell you about activities of the local EMC chapter. We are planning activities for almost every month, and sometimes several per month.

Our 2001 activities included:

- a presentation at Visteon by Ed Hare on "ARRL's role addressing EMC issues for Amateur Radio,"
- the second annual EMC Fest at the Dearborn Inn. 90 engineers attended, as well as many vendors. Lee Hill and Jim Muccioli spoke on "Practical Control of Inductance in PCB's, Cables, Connectors and Motors."
- a two-day EMC Measurement Uncertainty Workshop at Yazaki North America by lecturers Don Heriman, Dan Hoolihan and Ed Bronaugh.

Planned lectures for 2002 include Heri Rakouth, William Ashe, Achim Gertchner, Bill Lusa, Arnie Nielsen, Val Liepa and others. EMC Fest 2002 is planned for April 22 at the Dearborn Inn. This year's featured speakers will be Jose Perini and Mike Hatfield.

Also, please mark your calendars for the 2002 International IEEE EMC Symposium to be held August 19-23 in Minneapolis, Minnesota.

We are now in the planning stages for a local fall EMC event

that will focus on automotive EMC as presented by experts from the various OEM's.

Great progress has been made on the Chapter website thanks to my son Scott Lytle Jr. He has finally managed to improve the event registration process to the point that the server now collects the data and emails a confirmation to the registrant automatically. The data can then easily imported into Excel or Access for processing. We are sharing this capability with the IEEE Southeastern Michigan Section for the spring and fall section meetings.

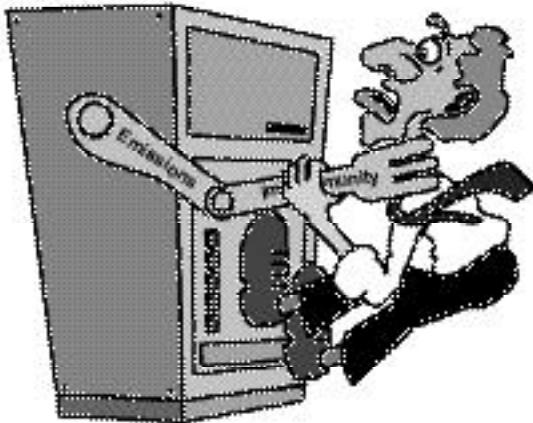
My thanks to everyone on the planning committee and to those that attended the events that made 2001 a success for IEEE EMC in Southeastern Michigan! The 2001-year's officers were:

| | |
|------------------|--------------------------|
| Scott Lytle | Chapter Chair |
| Dennis Barberi | Past-Chair |
| Mark Steffka | Co-Chair - Presentations |
| Mike Bosley | Chair - Membership |
| William Ashe | Secretary |
| Kimball Williams | Treasurer |
| Graeme Rogerson | Co-Chair Presentations |

If you would like to get email notifications of our events, please drop an email to S.R.Lytle@ieee.org.

For more information on the above meetings, please visit our web page at <http://www.emcsociety.org>.

Introduction to Electromagnetic Compatibility Design Practices* - April 25-26 Design Techniques for Controlling Radiated Emissions* - April 29-30



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For students to apply what they have learned from the classes to their specific products, they are encouraged to bring a product or a schematic of it, to a free personal consultation offered by the instructor or his associate on April 27 or May 1.

For more information or to receive a brochure call D.L.S. at 847-537-6400 or find us on-line at www.dlsemc.com.

* These are the same classes formerly offered by Don Sweeney through the University of Wisconsin.

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IEEE/SEM 2002 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, 2002 to:

Sat Basu
PO Box 4928
Troy, MI 48099

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

Please type or print

City/State/ZIP: _____

Phone Number: _____ [] H [] W

Tech. Session #: _____

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

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

[] Check enclosed [] VISA [] Master Card

Credit Card Number _____

Expiration Date _____ (Mo/Yr)

Signature _____

| <u>Fees</u> | <u>Amount</u> | <u>Deadline</u> |
|--------------------------|---------------|--|
| Pre-Registration | \$30 US | Received by mail before March 15. |
| Late Registration | \$35 US | Contact Sat Basu at 313-235-6523 or satbasu@ieee.org by 5 p.m. March 20. |
| Student Branches | \$15 US | Register & pay through student branch. Contact: Hassan Hassan at 248-204-2554 or ie_design@excite.com by March 15. |

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Technical Sessions Indicate session you wish to attend:

- ___ Chapter I Circuits & Signal Processing
- ___ Chapter II Vehicular Technology
- ___ Chapter III Communications and Aerospace Engineering
- ___ Chapter IV Trident
- ___ Chapter V Computers
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- ___ Chapter VII Power Eng/Industrial Applications
- ___ Chapter VIII EMC
- ___ Chapter IX Power & Ind. Electronics
- ___ Chapter X Engineering Management
- ___ Chapter XI ?????
- ___ Student Track Professional Development

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

IEEE/SEM Honors Outstanding Engineer at Gold Award Banquet

*by Don C. Bramlett, PE, IEEE/SEM Section Advisor
And 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 John R. "Chip" Keough, PE, CEO and owner of Applied Processes, Inc. Mr. Keough was nominated by ASM International, and he is a recognized authority world-wide on foundry and heat-treat related topics.

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 honor the 2001 IEEE/SEM Section Outstanding Engineer, Janie McLawhorn Fouke, Ph.D., Dean of the College of Engineering at Michigan State University. Dr. Fouke was also recently identified as one of 259 IEEE

Senior Members elevated to Fellow Grade in IEEE in January 2002. She also received a Millenium Medal from the IEEE Board of Directors in 2000.

IEEE/SEM members are invited to attend the ESD Affiliate Council Gold Award Banquet, during National Engineers Week (NEW), to honor Mr. Keough and Dr. Fouke and the other affiliate societies' honorees and socialize with the other distinguished professionals who will be in attendance. The 31st annual Gold Award Banquet will be held on Wednesday, February 20, 2002, at the Dearborn Inn at 20301 Oakwood Blvd in Dearborn, 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 \$45 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

Chapter VII: Another Year is Here and 2002 Has Great Potential

by Charles Albrecht, Chapter VII Chair

Hello to all Chapter VII members. I hope you had a great holiday season and were able to spend lots of time with family and friends. There were a couple of trends in Metro Detroit and the rest of the country this past year that seem to be continuing in 2002. These are corporate downsizing and increased security measures due to economic conditions and the awful events of last September. As a result, there is a more serious tone in today's workplace, with a reevaluation of both individual and corporate priorities.

Accordingly, we here at the Power Engineering and Industrial Applications Chapter have taken the opportunity to evaluate our current operation with a greater concern for the well being of the members of our society and their priorities. This has led to two main goals for 2002. The first is to renew our commitment to provide excellent technical meetings covering timely subjects delivered by engaging speakers, while the second is to get more involvement in chapter activities by our younger members. In order to accomplish both of our goals, it is essential to get your feedback. What topics are of interest to members seeking technical information on new programs? What kind of topic will garner the interest of members who have just begun their careers (0-5 yrs experience)?



One of this year's suggested topics is "What Does Deregulation Mean to Me in 2002?" and we plan to provide a quality speaker for our Spring meeting to address this timely question. We are also planning a tour of the Detroit Edison Superconductor Facility in conjunction with ESD. Our members will help facilitate programs this year that target high school students and introduce them to engineering activities such as the Future Cities and Science Fair competitions. We also are researching a way to direct members who have recently been displaced from their jobs towards helpful and sensitive career assistance.

Other Chapter Administrative activities this year will involve supporting the IEEE Substation Committee 2002 Meeting coming up April 28-May 1 in Dearborn and to provide a letter of endorsement for long time Chapter member and officer Dave Horvath as he seeks nomination as an IEEE Fellow.

Please join us for what I think will be an interesting and valuable year.

Contact me with any questions/comments at 734-632-1192 or by e-mail at calbrecht@patrickengineering.com.