Networking the World – Locally

I am looking forward to serving the IEEE/SEM Section as Chair this year. The section has over forty elected officers who are interested in making IEEE membership more valuable than ever. This article describes IEEE’s new campaign to define the value it provides, illustrates a few of the ways that the section supports IEEE’s goals locally, and identifies my goals as Section Chair.

The new motto IEEE: Networking the World captures the essence of the services and opportunities that IEEE provides to members. IEEE is communicating three main ideas with this phrase: fostering technical innovation, supporting members’ careers, and promoting community worldwide. (You can find more information about the motto at www.ieee.org/newsinfo/ntw.) The IEEE/SEM section, chapters, and student branches are focused on the same goals as IEEE as a whole but with an emphasis on local activities.

IEEE/SEM Fall ’98 Section Meeting

Date: Wednesday, October 28
Location: The McGregor Memorial Conference Center on the campus of Wayne State University, Detroit, MI.
Contact: Jim Woodyard, 313-577-3758

Program
5:30 p.m. Registration & Check-In opens.
5:45 p.m. Concurrent technical meetings.
6:30 p.m. Social period with cash bar.
University Showcases and Vendor Exhibits on display.
7:15 p.m. Check-In closes.
7:30 p.m. Dinner
8:00 p.m. Featured Speaker: Dr. Fred Dietrich.
The meeting will end at approximately 9:00 p.m.

How to Register:
Mail in the registration form on page 7 by October 16, 1998. Late registrations (full price) are accepted by phone through October 23, 1998. There is no fee for attending technical sessions only but pre-registration is requested to aid in room assignments. Dinner is not guaranteed to attendees registering the night of the event.
See page 7 for full registration information.

Student Registration:
Students must register through their student branch to receive discounted prices. Student branch signup procedures are on the section’s web page.

Section Meeting Technical Sessions & Featured Speaker Presentation
by James Woodyard, IEEE/SEM Vice Chair
The section meeting will feature eight or more parallel technical sessions and a student track meeting. These sessions include presentations on varied technologies, such as surface microscopy, communication technologies, web-based technology in teaching, digital signal processing and virtual laboratories. Following the technical sessions, participants will have the opportunity to view student branch activities and vendor exhibits during a social period.

Dr. Fred Dietrich of Globalstar, San Jose, CA, is the featured speaker for the meeting as well as one of the technical session speakers. Following dinner, Dr. Dietrich, will provide a multi-media presentation entitled: “The Globalstar™ Satellite-Cellular Communication Satellite System.”

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The Globalstar™ 48-satellite low-earth orbit (LEO) constellation will provide worldwide wireless communication via voice and data, paging and messaging, and radio-determination satellite services (RDSS) to over 98% of the world’s population.

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Dr. Dietrich’s presentation on communication-satellite systems will include a brief review of competing satellite-based systems and then a general discussion of the Globalstar system. Dr. Dietrich will be discussing the technology in detail, during the earlier parallel technical session co-sponsored by Chapters III and VI.

The call is destined for another portable Globalstar™ phone, the call continues through a second gateway, up to a satellite, and back down the Public Switched Telephone Network (PSTN), and on to the calling party or the party called. If the call is destined for another portable Globalstar™ phone, the call continues through a second gateway, up to a satellite, and back down to the receiver.

The topic of communication-satellite systems for telephony was selected for the fall section meeting because the technology is expected to have a significant impact on the global and southeastern Michigan economy. Developing economies are also recognizing that modern telecommunication is critical and fundamental to building a nation.

Communication-satellite systems will be a major contributor to the global-economic developments, as the information era evolves. Communication companies are rising up to the challenge and projecting the implementation of fully global wireless telephone system by 1999. The technology will also provide other digital telecommunication services, such as data transmission, paging, facsimile, position location to areas currently under serviced or not serviced by existing wireline and cellular telecommunication systems.

The IEEE/SEM Fall ‘98 Section Meeting is co-sponsored by IEEE Southeastern Michigan Section, Wayne State University College of Engineering and Globalstar. The program committee has attempted to develop a meeting to meet your professional needs. We invite you and your friends to register and participate in the meeting. Updated details will be presented in the October issue.

Help us manage the meeting more effectively by registering early.

Contact Jim Woodyard (woodyard@eng.wayne.edu, 313-577-3758) for any relevant information, to volunteer, or to communicate suggestions.

Volunteers Needed For Future City Competition

by Don C Bramlett, PE, IEEE/SEM Section Advisor

IEEE/SEM section members are invited to participate in the Sixth annual National Engineering Week (NEW) Detroit Regional Future City competition. The competition is scheduled to be held in the third week of January 1999 at a location to be announced later. The competition consists of a team of middle school students, a teacher and an engineer as advisor. There are five phases in the competition:

1) Design a future city using Simcity 2000 software
2) Use Urban renewal kit, to produce a color CAD presentation of the Top(aerial) View of the city.
3) Build a scale (30”(W)x 60”(L)x24”(H), maximum) model of any one section of the city.
4) Write a 500 words essay (subject: city planning).
5) Give an Oral presentation at the Detroit Regional competition.

The role of the volunteer engineer is to serve as a mentor to the students. He/she may be involved in all the phases of the project as an advisor only. The volunteer engineer will typically spend 18-24 hrs with a team of students from mid-October through the third week of January 1999. Finally the volunteer engineer for the winner of the Detroit Regional competition would get an opportunity to accompany a team of 3 students and a teacher on a free trip to the National competition in Washington DC during NEW, Feb. 21-28 1999.

Be a part of the exciting Detroit Regional Future City competition. This is one of the most stimulating and rewarding pre-college educational programs. You as a volunteer will share practical engineering skills such as teamwork, problem solving, CAD and applied Math and science. Engineers are also needed as Judges on the day of the competition.

ESD-The Engineering Society will serve the primary sponsor for the competition and as a member organization of the ESD Affiliate Council, the IEEE/SEM Section strongly encourages members to participate in this worthwhile endeavor.

A comprehensive Teacher/Engineer Volunteer Handbook is available, detailing contest specifics and other relevant information. To receive this free handbook or to register as a volunteer engineer, please call Maureen Simari at ESD-Engineering Society at 248-355-2910.

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I Circuits & Signal Processing: Acoustics, Speech & Signal Processing (ASSP-04), 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 an issue which is published the following month, e.g. April 1 is the deadline for the May issue.

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(Special color, sizes & placement quotes available upon request)

POSTMASTER: Send address changes to:
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Phone: 732-981-0060 x150. USPS 878-660

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Computer Chapter:  www.egr.msu.edu/ieeesem/chapv/
IEEE:  www.ieee.org
IEEE Region 4:  www.ieee.org/regional/r4/

Calendar of Events

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<td>Kimball Williams, 248-354-2845</td>
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Be sure to register using the form on page 7!

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**Chapter VIII**

**Chapter IX**

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Networking the World ...

Here are some of the ways the section, chapters and student branches support the IEEE Networking the World goals.

The ten IEEE/SEM chapters are vital links in the local IEEE network. The chapters hold numerous technical meetings in their specialty areas each year. These meetings foster technical innovation by presenting new or timely information about trends, standards, applications, problems with electrical, electronic, and software systems. They expose members to new ideas, stimulate their imaginations, and allow them to apply what they have learned at their jobs. By using IEEE’s Distinguished Lecturer Program, the chapters bring acknowledged experts to locations near you. Chapter meetings also provide networking opportunities for you to meet and talk to fellow engineers and computer scientists. You can find out about trends in local industries and new research, offer career guidance to a new engineer, ask peers for advice on solving a problem at work, and even make new friends by attending meetings.

By providing mentors and judges for the Future Cities competition, IEEE/SEM members can share their enthusiasm for math, science, and engineering with middle school students and their teachers. At the Metro Detroit Science and Engineering Fair, our members, serving as judges for IEEE/SEM awards, encourage students to pursue technical interests and consider careers in engineering. Both of these activities help students and their families better understand engineering and computer science. Hopefully, the section’s efforts will enlighten the public about what engineers do and persuade more people to pursue technical careers.

The section’s active student branches are another example of the Networking the World theme. Technical and professional programs at the branches foster innovation and prepare students to enter the workforce. Design contests, such as the Bucket O’ Parts competition, bring students from several universities together, allowing them to be inspired by each other. Several of the student branches sponsor outreach programs to encourage middle and high school students to consider engineering careers.

These are just a few of the ways in which the section promotes life-long learning, career development, and community outreach. While the section has done a good job in these areas in the past, we still have room for improvement.

I encourage members to become involved. Share your suggestions for conferences and non-technical seminars with section officers. Tell us what you like about Wavelengths and section meetings so that we maintain those services. Volunteers are always welcome to help the section and chapter officers achieve these goals. You can find contact information for this year’s officers inside this newsletter. Through your membership and active participation, you can “network the world” as well. Your input is important to shaping and implementing my goals for the section.

The first goal is to attract at least one more IEEE conference to be held in the area in the next 3-5 years. (Conference sites for large conferences are usually determined several years prior to the event.)

The only currently planned conferences in the IEEE/SEM area are the “1998 IEEE Workshop on Power Electronics in Transportation” and the “1999 IEEE International Conference on Robotics and Automation.” Local members benefit from conferences since members do not have to travel far to gain knowledge and new contacts. The section may also benefit financially as well if we provide seed money to the conference organizers. With past conferences, the section has recouped its initial investment plus a healthy gain.

My second goal is to increase the number of career development and professional activities in the section. Topics such as how to plan and execute projects, work cooperatively with customers and peers in other countries, and balance work and family life are as relevant to members’ lives as the technical activities that the section provides.

My third goal is to balance the section’s income and expenditures. As past Treasurer’s have noted, the section typically spends more each year than its income. The section has been able to do this in the past since conference sponsorships generated income about every three to four years. However, the section lacks a pipeline of sponsored conferences now. Developing budgets for section meetings to help ensure that all costs will be recovered is one step in this direction. The section also has a subcommittee working on ways to either increase the revenue or decrease expenses for Wavelengths while preserving the value the newsletter provides. Obtaining funds from Region 4 for development of new programs will also help the section’s finances. A financially strong section will be able to provide valued services to its members now and in the future.

Achieving these goals will require the support and involvement of section and chapter officers and members. The Executive Committee has endorsed fiscal responsibility and sponsoring more conferences for at least the past two years. This is the year to take decisive action. I am looking forward to working with this year’s officers to achieve these goals.
IEEE/SEM Fall ‘98 Meeting Registration Form

Complete and mail form with an early registration fee of $25 per person. The registration fee includes technical session attendance and dinner. Complete this form for each person attending. Please make check payable to IEEE/SEM and forward along with a completed registration form to: Graeme Rogerson, MIRA North America, 47523 Clipper St., Plymouth, MI 48170.

Fee Type | Amount | Deadline
---|---|---
Registration | $25 | Received by 5 p.m. 10/16/98.
Late Registration | $30 | Phone call to Graeme Rogerson, 734-455-8200, by 5 p.m. 10/23/98.
Student Registration | $12 | Register & pay through student branch.

There will be express check in for registered attendees.

Please type or print:

Name: _____________________________
Address: _____________________________
City/State/ZIP: _____________________________
Phone Number: ___________________________  [   ] H  [   ] W
Company: _____________________________
Amount enclosed: $_____ Registration ($25 per person)

Indicate your choice of meal:

[ ] Regular - Chicken Marsala or [ ] Vegetarian

Directions to McGregor Memorial Conference Center Located on the Campus of Wayne State University

The McGregor Memorial Conference Center is located on the main campus of Wayne State University, southwest of the corner of Palmer and Cass.

The conference center is readily accessible from any of Detroit’s freeways.

From I-94: Exit at the Woodward exit. Take John R south to Palmer. Proceed west on Palmer across Woodward and Cass. The parking areas are west of Cass on Palmer.

From I-75: Exit at Warren Avenue. Proceed west to Woodward. Turn north onto Woodward, proceed to Palmer. Turn west onto Palmer. Proceed across Cass. The parking areas are west of Cass on Palmer.


Parking will be in the Guest and Visitors Parking Lot and Parking Structure No. 1. Both parking areas are located west of Cass as shown on the map. IEEE/SEM meeting signs will be located in front of the parking areas. Wayne State University Hosts will be wearing dark blue T-shirts bearing the IEEE logo. They will be in front of the parking areas, along the walkway to the McGregor Memorial Conference Center, and in the Center to assist you in finding your way to the meetings. Hosts will also be available after the meeting to help you find your way to your car and use the provided parking cards that are necessary to exit Parking Structure No. 1.

Upon parking, walk south through the breeze way between the Law School and the Law Library. McGregor is the first building on the right. Should you arrive at the center after 5:45 p.m., proceed to the meeting area and register during the social period.
Students win top honors in VLSI Design Contest
by Catharine June

Students from the University of Michigan and Seattle University took top honors in the 1998 student VLSI Design Contest.

This contest was initiated in 1981 by Prof. Richard Brown (U-M) and Prof. Kent Smith (U of Utah), to promote excellence in education for integrated circuit designers at universities. This event provides competition to students in the design and fabrication of integrated circuits, at the novice level and the experienced level.

This year seven schools across the country participated in the contest. The award ceremony for the contest was held at the U-M Electrical Engineering and Computer Science building. The winners took home a combined total of $14,000.

The winners in the experienced class were:
1st place: Univ. of Michigan (Matthew Postiff, Timothy Strong)
2nd place: Iowa State University (S. Karthikheyen, A. Tammineedi)
3rd place: Univ. of Michigan (N. Baisa, S. Monasa, O. Pon, M. VanderPloeg).

The winners in the novice class were:
1st place: Seattle Univ. (Chris DeForeest, Melissa Degan and Alexandre Plombin)
2nd place: Univ. of Michigan (I. Lin, C. Lin, Y. Zhang and J. Cao)
3rd place: Stanford Univ. (H. Rodriguez, J. Medlock) and Univ. of Washington (D. Haube, J. Reiter).

For sponsors to the event, and other relevant information, please visit the website:
http://www.eecs.umich.edu/VLSI/press98.html