

## 2001 IEEE/SEM Awards

James R. Woodyard, Chair, IEEE/SEM Awards Committee

The 2001 IEEE/SEM Awards were presented at the IEEE/SEM Spring 2001 Meeting held at Visteon on March 28, 2001. Below are the awards, recipients, citations and the contributions of the recipients to IEEE/SEM and the profession.



**IEEE/SEM 2001 Outstanding Engineer Award**, Frederick Bauer, Ford Motor (retired), *“For his many accomplishments in the unification of worldwide vehicular radio frequency interference standards and innovations in the technology of electromagnetic compatibility.”*

Mr. Bauer, more than any other person in the world, is responsible for the international standardization of vehicle radio frequency interference requirements. He saw the need for worldwide harmonization of EMI

standards at a time when the subject received little attention and enjoyed only international disagreement. For almost 40 years he has worked to unify divergent AIEE (IEEE), SAE and European standards. He conceived major portions of the interference limit that has since come into use worldwide. Working with the International Special Committee on Radio Interference (CISPR), he convinced European leaders to widen the protected frequency spectrum so that compromise with the U.S. was possible. Fred then persuaded the SAE to use identical units, and worked to modify the SAE standard, so that the European and SAE limits could become common. He counseled with the Canadian standard Association to adopt the SAE specification, and enlarged the scope of both U.S. and European documents to fit Canadian needs.

After retiring from Ford Motor Company in 1980, Mr. Bauer continued to participate in national and international standards writing bodies, which included

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## The Journey to Voting for Officers via the IEEE/SEM Web Site Nominations

Jim Woodyard, IEEE/SEM Junior Past Chair

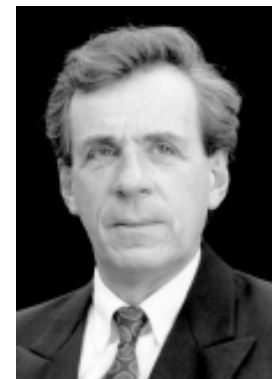
The activities of the IEEE/SEM Past Chair have centered around chairing the officer nominations and awards committees. The office of IEEE/SEM Past Chair is the next to the last office of the six-year rotation that members undertake when they agreed to serve as treasurer. The past practice of the IEEE/SEM Executive Committee has been to recruit an eager volunteer to the position of treasurer and mentor the member as the member moves through the position of treasurer, secretary, vice chair, chair, junior past chair and senior past chair. I started my rotation in 1996 and will complete it in 2003. With each officer position, I expected the term of office would be easier. WRONG!!

I have found my activities this past year to be challenging and rewarding. My activities as chair of

the IEEE/SEM Awards Committee were summarized in the March issue of Wavelengths. I will focus on activities as chair of the IEEE/SEM Officer Nominations Committee in this article.

Work on officer nominations began last August with the development of the calendar for the nominations and the election process. The calendar was published in the October issue of

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WAVELENGTHS

## 2001 IEEE/SEM Awards

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much foreign travel, at his own expense. His achievements demonstrate understanding of the art of compromise, technical diplomacy and a tenacity of purpose that is rare in this or any other age. He has had a career and private life dedicated to the unification of worldwide vehicular radio frequency interference standards, and numerous innovations in the field of electromagnetic compatibility. His efforts have resulted in approximately 900 million cars built worldwide to the standards that he has fostered.



**IEEE/SEM 2001 Outstanding Section Involvement Award, Sat Basu,** *“For his long standing involvement with the IEEE/SEM Executive Committee and numerous valued suggestions that have benefited the section.”*

Sat Basu served as IEEE/SEM Chair during the 1992-93 program year. During his term he worked with chapter chairs to increase the number concurrent chapter meetings at the IEEE/SEM Spring 1993 Meeting. He assisted with the development of successful IEEE/SEM self nomination for the 1993 IEEE Region 4 Exemplary Section Award. Following his service as section chair, Sat remained active with the section serving in many capacities. He proposed and followed through on numerous valued suggestions that have benefited the section. Among his many contributions, Sat was instrumental in the formation of Chapter VIII, Power Electronics/Industrial Electronics, and Chapter IX Electromagnetic Compatibility. He has served on the section's finance and audit committees, presented recommendations for the financial stability of the section, served as science fair judge, acted as volunteer coordinator, and assisted with section meetings.

**IEEE/SEM 2001 Outstanding Chapter Involvement Award, Scott Lytle,** *“For constant support of Chapter VIII which has resulted in significant increases in the number of chapter activities, membership participation and service to its members.”*



Mr. Scott Lytle has constantly supported Chapter VIII and his efforts have resulted in significant increases in the number of Chapter activities, membership participation and service to its members. He is the current chair of Chapter VIII, EMC, and also served in the past as vice chair. Scott increased the participation of membership in Chapter VIII activities through the development of E-mail notification to all members (and past walk-in non-members)

alerting them of upcoming meetings. He played an important role in the development and use of the Chapter VIII website for announcing chapter activities and providing descriptions of meeting, maps to meeting sites, agendas and minutes of chapter executive committee meetings. In his role as Chapter VIII Chair he served as a mentor to potential chapter executive committee members and increased committee membership from three to six active members.

Scott fostered and encouraged the initiation of a set of concentrated chapter presentations on relevant standards, dubbed “Standard Tuesdays”, in which representatives of several standards organizations provided a full evening's presentation covering their standards in detail. He led the work to initiate an IEEE EMC ‘Colloquium’ in Southeastern Michigan in 2000, which resulted in the largest attendance at any EMC Chapter activity to date (107 attendees). He is a member of the IEEE EMC Society and SAE. Scott has contributed to the expanding needs for understanding and standardization within EMC technology through participation in the SAE/EMI and SAE/EMR standards committees and as the Secretary of the IC-Chip Task Force.



**IEEE/SEM 2001 Outstanding Student Branch Award, Wayne State University,** *“For providing professional, social and intellectual advancement*

*opportunities for its members; assisting with IEEE/SEM meetings; and participating in several university and community service projects.”*

The Wayne State University Student Branch has conducted over 20 activities this year. These include an end of semester bash that raised over \$1000.00 for the student branch, holding a brown bag meeting with the chair of the Electrical and Computer Engineering Department, assisting with the annual job fair sponsored by the College of Engineering, and sponsoring several community service projects. The student branch provided full support for 16 students to participate in a job fair that was held in Chicago. The student branch continues its quest for excellence and carries out activities to increase membership, serve the College of Engineering and Wayne State University, and provide service to the southeastern Michigan community. It is also strives to represent the professionalism and community of IEEE on the campus of Wayne State University.



## IEEE Southeastern Michigan Section Executive Committee

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**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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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 47<sup>th</sup> 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.

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IEEE: [www.ieee.org](http://www.ieee.org)

IEEE Region 4: [www.ieee.org/regional/r4/](http://www.ieee.org/regional/r4/)



## Calendar of Events

**Monday April 23<sup>rd</sup>**  
**Event:** **EMCFest 2001**  
**Location:** Dearborn Inn, Dearborn, Michigan  
**Contact:** Kimball Williams: Co-Chair Technical Program 248-354-2845 e-mail: [k.williams@ieee.org](mailto:k.williams@ieee.org)  
Janet O'Neil Co-Chair Exhibits 425-868-2558 e-mail: [j.n.oneil@ieee.org](mailto:j.n.oneil@ieee.org)

**Monday May 7<sup>th</sup>**  
**Event:** **SEM Executive Committee Meeting**  
**Time:** Dinner at 6:00 pm, Meeting 6:30 pm  
**Location:** Eaton Corp, 26201 Northwestern Hwy, Southfield  
**Contact:** Kimball Williams, [k.Williams@ieee.org](mailto:k.Williams@ieee.org), 248-354-2845

**Monday June 4<sup>th</sup>**  
**(Tentative)**  
**Event:** **SEM Officer Training Seminar**  
**Time:** Dinner at 6:00 pm, Meeting 6:30 pm  
**Location:** Eaton Corp, 26201 Northwestern Hwy, Southfield  
**Contact:** Kimball Williams, [k.Williams@ieee.org](mailto:k.Williams@ieee.org), 248-354-2845

**June 7-9, 2001**  
**Event:** **The Second IEEE Electro/Information Technology Conference**  
**Description:** The Electro/Information Technology Conf., is the second regional/national conference focussing on presenting basic/applied research results in electrical and computer engineering relating Information Technology.  
**Location:** Oakland University, Rochester, MI  
**Contact:** Dr. Subra Ganesan, [ganesan@oakland.edu](mailto:ganesan@oakland.edu), 248-370-2206

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- Ford Certified for ES-WX7T1-A278-AA and -AB
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# IEEE/SEM Electro-Technology Award Michigan Regional Future City Competition

By Don C. Bramlett, PE, IEEE/SEM Section Advisor



The 8<sup>th</sup> Annual Michigan Regional Future City Competition was held on Tuesday, January 30, 2001 at the Spirit of Ford Museum in Dearborn. The Future City

Competition is held each year in association with National Engineers Week (NEW); with winners from the regional competitions participating in the finals in Washington D.C. during NEW. Teams of students from 26 middle schools in southeastern Michigan displayed their future city design projects at the year old Spirit of Ford facility.

Judging of student projects was performed in the morning and early afternoon. This is the third year the IEEE/SEM Section has provided a team of volunteer judges to specifically evaluate student projects for attributes associated with electrical, electronic and computer engineering related subjects. The Section sponsors the Electro-Technology Award, intended to recognize the design project that exhibits the best application of the theory and practice of electrical, electronics and computer engineering and related sciences to promote the sustainable development of the future city.

The Section wishes to thank the 10 IEEE members, and their companies/institutions, for taking the time to volunteer and help to make the Michigan Regional Future City Competition a more pleasurable and meaningful experience for the middle school students who participated.

The IEEE/SEM judging team was composed of the following nine volunteers:

Wayne State University  
Laurence G. Dishman

ITT Technical Institute - Troy  
Robert Meissner

Detroit Edison  
Sat Basu  
Don C. Bramlett, PE

University of Michigan - Ann Arbor  
IEEE Student Branch Members

Davis Lemmerhirt  
Brian Jamieson  
Andrew DeHennis  
Michael McCorquodale  
Brian Stark

Another IEEE/SEM volunteer served as the engineer-mentor for St John Lutheran School of Rochester, MI:

Oakland University  
Mohammed Zohdy, Ph.D.

The judges had the opportunity to view and evaluate some outstanding futuristic design projects; in particular they viewed some very interesting applications of current and predicted technologies pertinent to IEEE-related fields. The judges and the students had the pleasure to interface and discuss in depth some of the design principles applied, problems encountered, and teamwork principles used.

The IEEE/SEM team of judges awarded the Electro-Technology Award to Grand Blanc Middle School of Royal Oak. Don Bramlett and Laurence Dishman presented the award trophies to the team of three presenting students, accompanied by a support team of contributing students, the teacher and the engineer-mentor in the assembly hall of the Spirit of Ford facility that afternoon.

Grand Blanc Middle School received the IEEE sponsored Electro-Technology this year for a number of interesting attributes characteristic of the design of their future city. The city project portrayed a model city structure prototype developed and constructed in the Amazon Basin within the rainforests of South America. Power is provided by two super efficient fusion-reactor power plants. An advanced electric powered underground subway system provides easy access for the populace to all parts of the city. The city is enclosed from above by a prototype, grided "Digi-Dome" which is programmable and is integral to the functioning of the multi-functional communication system. Data acquisition and automatic control systems were incorporated into the operations of the residential, commercial and industrial area to make the personal and professional lives of the population more productive and less burdensome.

As a point of information, the first place winner of the 2001

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## The Journey to Voting for Officers via the IEEE/SEM Web Site Nominations

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Wavelengths and posted on the IEEE/SEM Web site, [www.ewh.ieee.org/r4/se\\_michigan/](http://www.ewh.ieee.org/r4/se_michigan/). Next an article was written for the November/December issue of Wavelengths calling for the IEEE/SEM membership to nominate colleagues for section and chapter officer positions. The article offered a free dinner with the IEEE/SEM Executive Committee to anyone interested in exploring serving as an officer. Surely, I reasoned, I would be swamped with e-mail messages from interested members. A call for officer nominations and a nomination form were also placed on the IEEE/SEM Web site. There were 37 officer positions to be filled. As chair of the Officer Nominations Committee, I hoped that all that remained was for me to have dinner with colleagues interested in serving as officers and edit the names into the boilerplate of the ballot. WRONG!!

There was almost no response to the call. One member joined the IEEE/SEM ExCom for dinner at the December meeting and as a result of discussions agreed to be nominated for an officer position. One nomination obtained for the ballot and 36 more to obtain! As the December 15<sup>th</sup> deadline for officer nominations approached, I had less than 10 nominations and panic began to set in. I requested that ExCom waive the deadline and we continue to seek nominations up and until the Wavelengths deadline for the ballot, namely, January 19<sup>th</sup>. I also requested ExCom approval for the ballot, required by the IEEE/SEM bylaws, be obtained via e-mail. ExCom granted the two requests. Several telephone calls and 50 e-mail messages later, the January 19<sup>th</sup> deadline approached and the ballot showed nominations for all but eight positions. Nominations for all the major positions on the ballot had been obtained except for one. I submitted via e-mail the ballot and an article urging the membership; they were to be published in the February issue of Wavelengths. Surely, all that remained was for me to count the ballots, develop a report for IEEE Headquarters, and announce the results. WRONG!!

When the February issue of Wavelengths arrived, I noticed the article urging members to vote was not in the issue. My concern for the number of members that would vote was heightened by the missing article. I languished over the missing article for a few days. Upon recovering from the incident, it occurred to me that there was still time to include an article in the March issue and there would be time for members to vote before the March 15<sup>th</sup> deadline. However, it did not seem reasonable to print the ballot in the March issue; urging members to vote counting on them to have the February issue at hand was risky. I contacted Walt Schilling, IEEE/SEM Webmaster, and asked him, with some reluctance or better yet embarrassment, if it would be possible to post the ballot on the Web site. Walt responded: "No Problem." I wrote an article for the March issue entitled "Vote for IEEE/SEM Officers via the IEEE/SEM Web Site." Walt posted the ballot on the IEEE/SEM and requested that I test it. I tested it and became the first member to submit a ballot via the Internet. As a result of the missing Wavelengths article, the section was moved to Internet voting for its officers!

I am now waiting to see how many members will vote via the IEEE/SEM Web site. On March 15<sup>th</sup> I will form a subcommittee and count the votes. By the time this article arrives in your mailbox, we will have our officers for the 2001-2002 program year and the duties of the IEEE/SEM Past Chair will have been completed. I am looking forward to an easier year as IEEE/SEM Senior Past Chair. RIGHT??

## EMCFest '2001

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#### **For further information:**

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# The Importance and Value of IEEE Membership

by Maurice F. Snyder, SM, Membership Director, SEM Section

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## IEEE/SEM Electro-Technology Award

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Michigan Regional Future City Competition was St. John Lutheran of Rochester, Michigan. The engineer-mentor for St. John Lutheran was the IEEE-SEM Section Treasurer, Mohammed Zohdy, Ph.D, on the faculty of Oakland University. Nada Zohdy, daughter of Dr. Mohammed Zohdy and Dr Hoda S. Abel-Aty-Zohdy, also on the faculty of Oakland University and IEEE-SEM Section Chapter 1 (Circuits & Signal Processing) Chair, was one of the three students that made the project presentation to the judges.

St. John Lutheran represented Michigan at the National Competition in Washington DC on Wednesday, February 21, 2001. The school did not win one of the top positions in the National Competition, but they did win two special awards; "The Best Aesthetic Design in Structural Engineering" from the American Society of Civil Engineers (ASCE), and "The Best Manufacturing Zone" from the Society of Manufacturing Engineers (SME). The team of three students, teacher and engineer-mentor worked together to produce an outstanding project.

### WANTED!!! Editor for Wavelengths

#### **Responsibility:**

1. Edit eight issues of Wavelengths per year
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3. Work with Wavelengths Administrator to meet schedules
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2. Able to work with professionals
3. Interested in providing service to IEEE membership

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**Contact:** Jim Woodyard at 313-577-3758 or [woodyard@eng.wayne.edu](mailto:woodyard@eng.wayne.edu)

# EIT2001

The second IEEE Electro/ Information Technology conference, EIT2001 will be held at Oakland University, Rochester, MI 48309, USA on June 7-9, 2001. Sponsored by IEEE Region 4, the EIT2001 is an International conference focusing on presenting basic / applied research results in the fields of electrical and computer engineering as they relate to Information technology. Many researchers and industrial investigators will present their latest findings in the conference. Also, there will be exhibits showcasing the latest **EIT** tools and products. Eminent Keynote speakers, Dr. Lotfe Zadeh (father of Fuzzy Logic), Dr. Benjamin Wah (President IEEE Computer society), Dr. Mark Smith (Georgia Tech), Dr. Hojjat Adeli (Ohio State), will provide latest research information on their areas of specialties. Conference papers on Information Technology and related fields will be accepted until April 15, 2001. We look forward to your participation in the conference by submitting papers, organizing the Paper Sessions, Panel Discussions, Workshops, Tutorials, etc. Businesses and Organizations interested in advertising, exhibiting and/or publicizing using the latest Technology Conference EIT2001 may please contact the General Chair at Ganesan@oakland.edu. Volunteers are needed for organizing the EIT2001.

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Please call (248) 370-2206 by May 26, 2001 or send email to: Ganesan@oakland.edu, about special needs.

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