

WATT'S NEW

IN

The Baltimore Section

WINTER 2001



Chairman's Corner

First and foremost, we want to extend our sincere appreciation to the outgoing Chair, Ralph Bruce, for his leadership in the year 2000 and to all the Baltimore Officers and Directors for their pro-active roles in promoting the professional interest of the electrical engineering profession. Heartfelt congratulations to Chris Nemarich and other volunteers who made the IMTC 2000 conference in Baltimore a great success. We especially salute Mel Hotz for taking the difficult task of updating the Baltimore By-Laws and conducting the audit. Yes, 2000 was another great year as the years past, and we aim to continue this momentum as we enter the year 2001. With the holidays and the Super Bowl over, some would think it is time to curl up the rest of the winter, no matter how mild the weather may be. For most of us, this is not the case as the next several months are some of the busiest on our calendar. We kicked off the year with our first executive committee meeting on January 8, 2001.

These committee meetings are generally held every second Monday of the month except for the months of June, July and August when we take a break for the summer. May is reserved for the annual Chapter Chairs Dinner. We invite any member or prospective member/student to attend the meetings at the HEM (Historical Electronics Museum) located next to the Marriott Hotel at BWI, 6:30-8:00pm.

The IEEE Baltimore Section currently includes the Annapolis Subsection (including Eastern Shore) and technical Chapters (AES-10, AP-03/MTT-17, COM-19, EMB-18, EMC-27, ED-15/SSC-37, IA-34, PE-31, and R-7). New officers are in place and everyone is already working very hard. We are busy planning budgets, conducting financial audits, and preparing required reports for IEEE headquarters to name a few. We are further seeking volunteers to lead the Computer Society. More importantly, we are planning a calendar

of activities for the coming year that would provide professional, technical, educational, and networking opportunities to our members/students for today's environment. The Communication, Power Engineering, Industrial Application, Engineering in Medicine and Biology societies have already held their first technical seminars in January. The Robot Challenge Project continues to be a successful endeavor under the guidance of Neville Jacobs. The challenges are scheduled for March and April. We have also initiated a new meeting structure and program including a series of educational/technical brief presentations in conjunction with our committee meetings. Although John Dentler has agreed to be acting treasurer for 2001, we seek a permanent treasurer. John would be pleased to provide an orientation to a new permanent treasurer. Our vice-chair, Vil Arafiles, has also written a guidance document for Treasurers.

One of our goals in 2001 is to improve the use of technology and communications to enhance member awareness and involvement, and the efficiency of Section operations. It has been over two years since the Section became part of cyberspace and the Internet superhighway. Since that time, the IEEE Baltimore website, <http://www.ewh.ieee.org/r2/baltimore/> became an information resource center for the majority of members who have access to the Internet. During that time, we published and distributed Watt's New Newsletter two times a year via regular mail. You should have already received notice that the Section will launch the first electronic newsletter without mailing paper copies. The newsletter is accessed through our website. However, members who do not have Internet access, will continue to receive a hard copy by contacting the editors, Dave Stevens, at

410-235-3450 or Leonard Bathgate at 410-768-8177.

This year is a new milestone as we celebrate the 50th year of National Engineers Week. Every year about the time of George Washington's birthday, engineers throughout the nation focus on National Engineers Week. During the week of February 17 - 24, 2001, there are numerous activities for you to participate in. The Engineering Society of Baltimore has scheduled a week of activities at the Jarrett-Jacobs Mansion and the Baltimore Museum of Industry. We also encourage you to sponsor a high school student and/or attend the annual Engineers Week Dinner on February 20, 2001. This is an annual event organized by the Power Engineering Society.

In closing, on behalf of the Baltimore Section, I thank you so much for your support and for volunteering in promoting the professional interest of our engineering profession through IEEE. Please continue to — publicize your activities, share your ideas and achievements, improve our public image, and invite others to volunteer and develop a proactive role in addressing the needs of our members. You are a vital part of the IEEE organization in the Baltimore Section. Be proactive. Be proud!

2001 Election Results

The following are your IEEE Baltimore Section Officers for the year 2001:

Chair: Carole C. Carey
Vice Chair: Virgilio P. Arafiles
Secretary: Robert J. Berkovits
Treasurer: John C. Dentler

Annapolis Subsection

Chair: David C. Boyd
Vice Chair/ Treasurer: Noel Castiglia



WATT'S NEW IN THE BALTIMORE SECTION

"WATT'S NEW" in the Baltimore Section is the biannual newsletter of the Baltimore Section of the Institute of Electrical and Electronics Engineers (IEEE). As a medium for both news and opinions, the editorial objectives of WATT'S NEW are to inform its readers in a timely and objective manner of newsworthy IEEE activities taking place in and around the Baltimore metropolitan area, to publish officially scheduled events, to report on IEEE activities of national and international scope, and to serve as a forum for comment on areas of concern to the engineering community.

Editorial Staff

Editors

David Stevens

O: 410-235-3450; Fax: 410-243-5716; e-mail: dstevens@ieee.org

Leonard Bathgate

O: 410-768-8177; Fax: 410-766-5603; e-mail: ltserv@charm.net

Advertising Rates

Full Page	\$400
3/4 Page: 8 x 7.5	\$350
2/3 Page: 8 x 7 or 5 x 10.5	\$300
1/2 Page: 8 x 5 or 5 x 8	\$250
1/3 Page: 8 x 2.75 or 2.75 x 8	\$200
1/4 Page: 8 x 2.5 or 5 x 3.75	\$150
1/6 Page: 4 x 3 or 2.25 x 5	\$100
Back Cover: Not Available	

1/8 Page (Business card: 3.5 x 2.25 or 2.5 x 3.25) ads will be placed at a promotional rate of \$75 per issue for a minimum of two consecutive issues.

The Baltimore Section of the IEEE encourages placement of technical, professional, promotional, and commercial advertisements in *WATT'S NEW*. Revenue from advertisements will help fund the Baltimore Section's Scholarship Fund.

WATT'S NEW is published in January and August. Subscriptions are included in the annual membership dues. Mail contributions to: L & T Services, c/o Leonard Bathgate, 9 First Avenue West, Ferndale, MD 21061.

IEEE Baltimore Section

Executive Officers

Chair: Carole C. Carey

O: 301-443-8609 ext. 156; Fax: 301-480-4204; e-mail: carolecarey@attglobal.net

Vice Chair: Virgilio P. Arafles

O: 301-688-0060; Fax: 301-688-0661; e-mail: Vparafles@ieee.org

Secretary: Robert J. Berkovits

Ph: 410-990-1672; e-mail: BerkovitsR@jsc.mil,

Treasurer: John C. Dentler (Acting)

O: 301-577-6601; Fax: 301-577-7420; e-mail: Jdentler@aol.com

Directors

Educational Activities: John C. Dentler

O: 301-577-6601; Fax: 301-577-7420; H: 410-721-5812; e-mail: Jdentler@aol.com

Membership Development: James M. Gillin

O: 410-728-8700; H: 410-523-2664

Student Activities: Neville Jacobs

H: 410-653-4176; e-mail: Nevilleed@aol.com

Awards and Recognition: Tom Patton

O: 410-574-4960; H: 410-667-9306; Fax: 410-667-6562; e-mail: pattontj@erols.com

Programs: Chris Nemarich

O: 301-577-6601; Fax: 301-577-7420; H: 410-544-5620; e-mail: cnemarich@ieee.org

Publications: David Stevens

Refer to Editorial Staff

Associate Editor, Web Services: Leonard Bathgate

Refer to Editorial Staff

Audits/Bylaws: Ralph W. Bruce

e-mail: rwbrusefnt@erols.com

PACE*: William B. Dixon

O: 410-574-4960; H: 410-760-4745; Fax: 410-993-2581; e-mail: w.dixon@ieee.org

* Professional Activities Council of Engineers

Delegates

Engineers Council of Maryland: Joseph M. Pollitt

Engineering Society of Baltimore: Joseph M. Pollitt - Delegate,

Donald Blum - Executive Director

Maryland Board for Licensing of Professional Engineers:

Melvin Hotz

Annapolis Subsection

Chair: David C. Boyd

EDS - Washington, DC

O: 202-414-8624; H: 410-544-6233; e-mail: dboyd13672@aol.com

Vice Chair/Treasurer: Noel Castiglia

O/H: 410-974-1626; Fax: 410-757-5129; e-mail:

Ncastiglia@ieee.org

Other News

Robot Challenge - 2001 Approaches

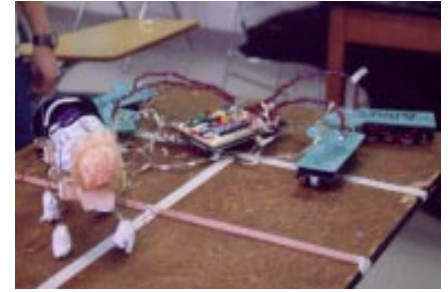
Teams are getting ready for the 2001 Robot Challenge that will take place at the Museum of Industry on March 31 and April 1. We've heard from 2 schools already that are committed to additionally automating their robots, so we think there is a good chance that we will have a team successfully completing the course under automated control this year. This particular challenge has been open for 5 years, and 4 teams have tried, but none have yet succeeded.

There will probably be about 40 teams running under Manual Control, and this is still the most exciting part of the challenge, but we're thrilled by the automation challenge as it takes the electro-mechanical aspects of the manual robot and adds to it the electronics, computers and software that more broadly define the different facets of the IEEE.

One of the teams from CHEN did particularly well last year, and they have been working on their automation for the past year.



Several teams from Beth Tfiloh H.S. finished their manual robots last December, and have made some progress running briefly under automated control - they still have 3 months to get it fully operational. We think this may be the year to break the automation barrier! Come and find out for yourselves, become a judge, or just become involved in working with the kids as a mentor. For more information contact Neville Jacobs at 410-653-4176 or by e-mail at Nevilleed@aol.com. Go to our web site, www.robotchallenge.com, for more information and hints for both students and teachers, as well as photos of past events. It's fun!



2001 National Engineers Week Dinner

The annual Engineers Week Dinner will be held on Tuesday, February 20th at the BWI Marriott Hotel, 1743 West Nursery Road. Edmund Schweitzer III, PHD, President of Schweitzer Engineering Labs, Inc. will be the guest speaker.

The evening's agenda will be as follows:

- 5:00 to 6:00 p.m. Social Hour with Exhibits
- 6:00 to 7:15 p.m. Dinner
- 7:15 to 8:30 p.m. Program

New Gold Chapter Taking Flight

Laura Amos is currently starting to put together a chapter for graduates of the last decade (GOLD). Look for an article in the next issue of WATT's NEW to find out what's happening!

Wireless Communications Systems EMC Design Courses

Phoenix, AZ, March 20-22, and Washington, DC, May 1-3

Don White Consultants teaches the only available courses on *Wireless Communications Systems Design* with an EMC and EMI control flavor. We deliver solutions and tools via short training courses, handbooks, CD-ROMs, and software on EMC, ESD and EMI control.

Introduction to Wireless Communications System Design (1 day)

This course provides the basics in RF system engineering with emphasis on system design requirements, performance, type of service, spectrum allocation, technical parameters, electromagnetic compatibility and system design trade-offs. The course includes an overview of Rules, Regulations and Standards, a discussion of the various types of service, and a comparison of signal formats with an EMC emphasis and implications.



Wireless Communications Systems EMC Design (2 days)

The course includes essential information on channel loading, increasing system capacity, minimizing EMI, frequency use plans, separation distance requirements, antenna co-location on platforms or towers, antenna and propagation effects, equipment EMI characteristics, and EMI mitigation and control. Signal formats to include FDMA, TDMA, CDMA, GSM and Bluetooth will be described and compared in terms of capacity and performance. Spread spectrum techniques using frequency hopping and/or PN sequences are addressed.

Computer prediction and analysis will be used in the classroom. Participants receive a licensed CD-ROM copy.

For a syllabus and other course information visit: www.emc-donwhite.com

Can't attend? Consider a tailored, on-site seminar: www.emf-emi.com or call for brochure: Phone: 540-351-0088, fax: 540-347-5813 or emc-donwhite@crosslink.net.

Also, have published handbooks, CD-ROMs, software and consulting, visit: www.emf-emi.com

*Don White
Consultants, Inc.*

6187 Finchingfield Road
Warrenton, VA 20187

Course Title	Course Location					
	Orlando, FL	Phoenix, AZ	Houston, TX	Washington DC	San Jose, CA	
EMI Control Courses						
Grounding & Shielding	Feb 27-28		Apr 10-11		May 22-23	
System-Level EMC Design	Mar 1		Apr 12		May 24	
Diagnostics & EMI Fixes	Mar 2		Apr 13		May 25	
Wireless EMC Engineering Courses						
Introduction to Wireless EMC		Mar 20		May 1		
Wireless Telecom EMC Design		Mar 21-22		May 2-3		

Chapter Information

Annapolis Subsection Crab-Line



Meeting Schedule and Information

Annapolis Area Members:

The Annapolis Subsection meets at the U.S. Naval Academy in Room 103 of Michelson Hall, located between Nimitz Library and Chauvenet Hall. Enter through Gate 1 and park along Holloway Road & Ingram Field or near Rickover Hall. Meetings are held jointly with the IEEE Student Activities Section and consist of a networking session at 7:00 PM, followed by the presentation at 7:30 PM.

For more information on meeting dates this spring, contact the section chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/Subsection/crab-line.html.

Chair: David C. Boyd
EDS - Washington, DC
121 Dalosway Drive
Pasadena, MD 21122
O: 202-414-8624
H: 410-544-6233
e-mail: dboyd13672@aol.com

Vice Chair/Treasurer: Noel Castiglia
917 Blue Ridge Drive
Annapolis, MD 21041
O/H: 410-974-1626
Fax: 410-757-5129
e-mail: Ncastiglia@ieee.org

Southern Maryland

Meeting Schedule and Information

IEEE Southern Maryland Communications, Computers, and Electromagnetic Compatibility (EMC) Chapters hold meetings regularly on the last Monday of every month, with dinner meetings held at the Roost Restaurant on the 1st month of each quarter and brown bag lunch meetings held at Veda Incorporated on the 2nd and 3rd months of each quarter. Each meeting has a special guest speaker presenting technical information.

Regular meeting notices are issued by postal mailings, e-mail, and newspaper articles. For more information on meeting dates this fall, contact the section chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/Sections/SoMD/Southern_MD.html.

Contact Mr. Fred Heather
301-342-4681 or 301-342-6975, ext. 110; e-mail: heatherf%am3@mr.nawcad.navy.mil
or
Mr. Wayne Devereux
e-mail: wdevereux.paxr@veda.com

Reliability (R-07)



The Reliability Society deals with the reliability of electrical and related products, and scientific, technical, industrial, or other activities that contribute to this field, or utilize the techniques or products of this field.

We would like to make the Baltimore Section Reliability Society a useful forum to foster the Reliability Engineering profession in this area to provide you, the members of IEEE, with important information and resources. Anyone interested in getting involved in our society's activities, please contact the chair.

Meeting Schedule and Information

Generally all meetings are held at Northrop Grumman Corporation, Central Building, Linthicum, MD, starting at 11:30 AM. A light lunch is served. For more information on meeting dates this spring, contact the society chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/Chapter/Rel/Reliability.html.

Chair: Walter E. Willing
Northrop Grumman Corporation - Electronic Sensors and Systems Division
P.O. Box 1521, Mail Stop 3G07
Baltimore, MD 21203
O: 410-765-7372; Fax: 410-765-0641; e-mail: waltwilling@ieee.org

Chapter Information

Power Engineering (PE-31)



The scope of the society embraces planning, research, development, design, application, construction, installation, and operation of apparatus, equipment, structures, materials, and systems for the safe, reliable, and economic generation, transmission, distribution, conservation, measurement, and control of electrical energy. The society develops standards, provides instruction, and advances the electric power discipline and techniques.

Meeting Schedule and Information

Meetings are held at BGE's Marketing and Energy Services Building, Main Conference Center located in Woodlawn. Technical meetings are held the 3rd Tuesday of each month. Executive meetings are held the last Tuesday of each month. For more information on meeting dates and times this spring, contact the chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/baltimorepes/

Chair: Robert D. Biagiotti
BGE
7317 Parkway Drive, South
Dorsey, MD 21076
O: 410-859-9305
e-mail: robert.d.biagiotti@bge.com

Vice Chair: Kirk A. Rae
BGE
2900 Lord Baltimore Drive
Baltimore, MD 21244
O: 410-597-7070
e-mail: Kirk.A.Rae@bge.com

Secretary: James F. Ryan
BGE
1068 Front Street
Baltimore, MD 21202
O: 410-597-707

Treasurer: Open

Student Chapters

U.S. Naval Academy

Dept. Chair: Pamela Mack Kendrick
Ph: 410-293-6152
Fax: 410-293-3493
SB Advisor: Dr. Deborah Mechtel
O: 410-293-6156
e-mail: mechtel@usna.edu
SB Student President: Joshua Collins
e-mail: moo1158@nadn.navy.mil

UMES

SB Advisor: Asif Shakur
e-mail: AMSHAKUR@ssu.edu

Morgan State University

Dept. Chair: Col. James
Ph: 443-885-3233
Fax: 443-885-3843
e-mail: pmack@eng.morgan.edu
SB Advisor: Peter Anderson
Ph: 443-885-3911
SB Student President: Daniel Jones
e-mail: danielj@eng.morgan.edu

Engineering in Medicine and Biology (EMB-18)



EMB-18 is a society of people who apply the concepts and methods of physical and engineering sciences to the problems of biology and medicine. This covers a very broad spectrum, ranging from formalized mathematical theory through experimental science and technological development to practical clinical applications. It includes support of scientific, technological, and educational activities. The aim of the Baltimore Chapter, together with the Washington and Northern Virginia Chapters, is to be a catalyst for EMBS activity in the Baltimore-Washington area.

Meeting Schedule and Information

Meetings are held at Johns Hopkins University, Homewood Campus, Krieger Room 205 on the 3rd Thursday of September, October, and November. Refreshments are served at 6:30 PM, followed by a talk at 7:00 PM, with discussion following at 8:00 PM. Parking: \$2.50 in the visitor's lot, free on Wyman Avenue. For more information on meeting dates and times this spring, contact the chair or visit our link at the Baltimore Section web site: www.emb.jhu.edu/~cpatel/hopkins/embs.html

Chair: Dr. Boris Gramtikov
O: 410-955-3538
e-mail: bgramat@bme.jhu.edu

Vice Chair: David Sherman
O: 410-502-5393
e-mail: dsherman@bme.jhu.edu

Secretary: Feris Al Hatib, PhD
O: 410-516-6052
e-mail: athakrul@bme.jhu.edu

Treasurer: Chirag B. Patel
O: 410-516-2433
e-mail: cbp1@jhunix.hcf.jhu.edu

Loyola College

Dept. Chair: Wayne Elban
Ph: 410-617-2853
Fax: 410-617-2157
e-mail: welban@mailgate.loyola.edu
SB Advisor: Suzanne Keilson
Ph: 410-617-2722 ext. 2564
e-mail: keilson@loyola.edu
SB Student President: Diane Wimmer
e-mail: dwimmer@loyola.edu

Anne Arundel CC

Dept. Chair: Christopher Kilian
Ph: 410-541-2436
Fax: 410-541-2445
e-mail: ctkilian@mail.aacc.md.us

UMBC

Dept. Chair: John Pinkston
Ph: 410-455-1339
Fax: 410-455-3969
e-mail: pinkston@umbc.edu
SB Advisor: Joel Morris
Ph: 410-455-3503
e-mail: morris@umbc.edu
SB Student President: Xiao Lin (Sean)
e-mail: xilin@gl.umbc.edu

Johns Hopkins Univ.

Dept. Chair: Gerard Meyer
Ph: 410-516-7003
Fax: 410-516-5566
e-mail: gmeyer@ece.jhu.edu
SB Advisor: Frederic Davidson
Ph: 410-516-7007
e-mail: fmd@jhu.edu
SB Student President: Taka Ariga

Chapter Information

Antenna Propagation/Microwave Theory Techniques (AP-03/MTTS-17)

Antennae and Propagation - Experimental and theoretical advances in antennae including design and development, and in the propagation of electromagnetic waves including scattering, diffraction, and interaction with continuous media; and application, pertinent to antennae and propagation, such as remote sensing, applied optics, and millimeter and submillimeter wave techniques.

Meeting Schedule and Information

Meetings are held at Northrop Grumman's facilities at BWI during lunchtime. For more information on meeting dates and times this spring, contact the vice chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/Chapter/ApMTT/AntennaMicrowave.html.

Chair: Hyo-Kun Hahn
O: 410-765-5931
e-mail: hyo_kun_kahn@mail.northgrum.com

Secretary: Vacant

Technical Program/Activities

Chair: Edward Niehenke
Niehenke Consulting
5829 Bellanca Drive
Elkridge, MD 21075
O: 410-765-5866
Fax: 410-765-5829
e-mail: e.niehenke@ieee.org

Vice Chair: David W. Wachuga
O: 410-765-9764
e-mail: david_w_wachuga@mail.northgrum.com

Treasurer: Vacant

Facilities Chair, Vacant

Electron Devices (ED-15)/ Solid State Circuits (SSC-037)



The EDS field of interest spans all aspects of the physics, theory, and phenomenon of electron and ion devices such as elemental and compound semiconductor devices, quantum effect devices, optical display and imaging devices, high frequency devices, micromechanics, tubes, and vacuum devices. The society is concerned with the research, development, design, manufacturing, processing technology, and applications of these devices.

Meeting Schedule and Information

Meetings are held on a quarterly basis at the Historical Electronics Museum, at 1745 Nursery Road near BWI Airport. For more information on meeting dates and times this spring, contact the chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/edss/.

Chair: Dr. David Burnell
Tality
Silicon Technology Services/
Analog Mixed Signal Design
6760 Alexander Bell Drive,
Suite 250
Columbia, MD 21046
O: 410-290-2817
Fax: 410-290-2838
e-mail: dburnell@tality.com

Secretary: Dr. Paul A. Potyraj
Northrop Grumman
P.O. Box 1521, M/S 3D12
Baltimore, MD 21203
O: 410-765-7119
Fax: 410-694-2807
e-mail: Papotyraj@ieee.org

Chapter Partner: Arlene Santos

National Semiconductor Corp.
10810 Guilford Road, Ste 111
Annapolis Junction, MD 20701
O: 301-912-4507
Fax: 301-912-4567
e-mail: a.a.santos@ieee.org

Vice Chair: Dr. Andreas G. Andreou
The Johns Hopkins University
Electrical and Computer
Engineering
3400 N. Charles Street
Baltimore, MD 21218
O: 410-516-8361
e-mail: andreou@jhu.edu

Treasurer: David M. Gill
229 Hickory Point Road
Pasadena, MD 21122
e-mail: gill@lps.umd.edu

Chapter Information

Aerospace and Electronic Systems (AES-10)



Organization, design, development, integration, and operation of functional systems for space, air, ocean, or ground environments. These systems include, but are not limited to, navigation, avionics, spacecraft, aerospace power, radar, sonar, telemetry, defense, transportation, and command and control. A functional system is hereby construed to mean a complex interacting assembly of major components designed to accomplish specific functions.

Meeting Schedule and Information

Meetings are held at the Historic Electronics Museum, located on Nursery Road next to the Marriott Hotel near BWI Airport. For more information on meeting dates and times this spring, contact the chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/AES/AESShomepage.html.

The chapter is soliciting volunteers who are interested in participating as an officer of the chapter. Your participation requires only a couple of hours of time per month. Please contact the chapter chair to express interest.

If you have a topic for a one-hour presentation which would be interesting to the AESS members in the Baltimore area, please bring it to the attention of the chapter chair.

Chair: Mark W. Brown
2836 Foxhound Road
Ellicott City, MD 21042
O: 410-765-9864
H: 410-465-7292
e-mail: mwbrown@ieee.org.

Vice Chair: Vacant

Treasurer: George K. Ridley
23 Merino Court
Owings Mills, MD 21117
O: 410-765-5647
H: 410-356-3168
Fax: 410-765-9435
e-mail: george_k_ridley@mail.northgrum.com

Secretary: Heath Bebout
1218 Rock Hill Road
Pasadena, MD 21122
O: 410-765-9604
H: 410-360-6697
e-mail: bebout@ieee.org

Communications (COM-19)



Advancement of the science, engineering, technology, and application for transferring information between locations by the use of signals. This includes sources and destinations involving all types of terminals, computers, and information processors; all pertinent systems and operation to bring about this transfer; guided and unguided transmission media; switched and unswitched networks; and network layouts, protocols, architecture, and implementation.

Meeting Schedule and Information

Meetings are held the first Tuesday of each month at UMBC University Center Room 302, Catonsville. A notice is sent via e-mail several weeks before each meeting. For more information on meeting dates and times this spring, send your e-mail to Jeff Friedhoffer, Jafried@ieee.org, or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/Chapter/Comm/Communication.html.

Chair: Jeffrey A. Friedhoffer
Dept. of Defense
Fort Meade, MD 20755
O: 301-688-9190
H: 410-997-5366
e-mail: Jafried@ieee.org.

Vice Chair: A. Lance Randall
Lakota Technical Solutions
14440 Cherry Lane Ct, Ste 221
Laurel, MD 20707
O: 301-725-2727
e-mail: Lance.randall@ieee.org

Secretary: Tim Krout
CENCEN
6681 Buttonhole Court
Columbia, MD 21044
O: 410-336-7088
e-mail: TimKrout@HOME.com

Treasurer: Thad Welch
U.S. Naval Academy
Dept. of Electrical Engineering
105 Maryland Avenue
Annapolis, MD 21401-2005
O: 410-293-6163
Fax: 410-293-3493
e-mail: t.b.welch@ieee.org

Membership: Julie Modlin
Columbia Communications
5550 Sterrett Place
Columbia, MD 21044
O: 410-964-5700
e-mail: jmodlin@internetctc.com

Chapter Information

Electromagnetic Compatibility (EMC-27)



Enhancement of Electromagnetic Compatibility (defined as the capability of systems or equipment to be operated in the intended operational environment at designed levels of efficiency without degradation due to electromagnetic interactions) including, but not limited to: 1) the generation of engineering standards; 2) measurement techniques and test procedures; 3) measuring instruments; 4) equipment and system characteristics, such as susceptibility (immunity), vulnerability, related propagation effects, and subjective effects, frequency allocation and assignment; 5) improved (interference reduction or control) techniques and components; 6) education in electromagnetic compatibility; 7) studies of the origins of interference, both man-made and natural, and their classification; 8) spectrum conversion; 9) spectrum utilization; 10) shielding techniques; 11) side effects of electromagnetic energy; 12) scientific, technical, industrial, professional or other activities that contribute to this field, or utilize the technique or products of this field.

Meeting Schedule and Information

For more information on meeting dates and times this spring, contact the chair or visit our link at the Baltimore Section web site: www.ewh.ieee.org/r2/baltimore/Chapter/EMC/emc.html.

Chair: John Anderson
IITRI
562 Poplar Drive
Riva, MD 21140
O: 410-573-7582
Fax: 410-573-7582
e-mail: janderson@iitri.org

Vice Chair: Hoosamuddin Bandukwala
MET Laboratories
9502 Clocktower Lane
Columbia, MD 21046-1876
O: 410-354-3300
Fax: 410-354-3313
e-mail: hbandukwala@metlabs.com

Secretary: Charles W. Gaston
IITRI
761 Hawthorne Road
Linthicum Hgts., MD 21090
H: 410-859-0711
e-mail: Cwg@erols.com

Treasurer: Angela J. Johnstone
1313 Burlington Road
Odenton, MD 21113
e-mail: ajohnstone@iitri.org

Industry Applications Society (IA-34)



Development and application of electrical systems, apparatus, devices, and controls to the processes and equipment of industry and commerce; the promotion of safe, reliable, and economic installations; the encouragement of energy conservation; and the creation of voluntary engineering standards and recommended practices.

Meeting Schedule and Information

Meetings are held from 6:00 - 10:00 PM at Overlea Hall, 6809 Belair Road, Baltimore, MD 21206. Cost for members is \$25 reserved, \$30 at the door; nonmembers - \$30 reserved, \$35 at the door. For more information on meeting dates and times this spring, contact:

Sebastian Theberge, Programs Chair

O: 410-590-8700

Fax: 410-590-8731

e-mail: Seb.Theberge@Cummins.com

or visit our link at the Baltimore Section web site:

www.ewh.ieee.org/r2/baltimore/Chapter/EMC/emc.html.

Chair: Scott Gordon

Square D Co.
5936 Northwood Drive
Baltimore, MD 21212
O: 410-337-8448
H: 410-435-2962
Fax: 410-337-9796
e-mail: gordonc@squared.com

Vice Chair: Rob Banas

Leach Wallace Associates
813 Maiden Choice Lane
Baltimore, MD 21228-3679
O: 410-536-4000
H: 410-750-9598
Fax: 410-536-4007
e-mail: lwa@leachwallce.com

Secretary: Mark Welsko

Henry Adams
1350 Connecticut Ave, NW
Washington, DC 20036
O: 202-955-1001
H: 410-356-6367
Fax: 202-955-1004
e-mail: welsko@henryadams.com

Treasurer: Leonard Bathgate

Kroeger Electric
1007 Crain Highway, S.E.
Glen Burnie, MD 21061
O: 410-766-1416
H: 410-768-8177
Fax: 410-766-5603
e-mail: ltserv@charm.net

Computer Society (C-16)

Chair: Vacant

Education Society

(E-25)

Chair: Vacant

Engineering Management Society (EM-14)

Chair: Vacant



CALENDAR OF MEETINGS AND EVENTS

JANUARY

8	ExCom Meeting	17	IAS - Industrial Processes with Web Enabled Drivers
9	COMSOC - Running an ISP, David Troy	18	EMB - Retinal Birefringence Scanning
16	Network - Jim Mauer	27	Robot Challenge - Tutorial Session
	PES - BGE Corporate Data		

FEBRUARY

6	COMSOC - Wireless	20	PES - Engineers Week Dinner
12	ExCom Meeting	21	IAS - Stress Management
18-24	National Engineers Week	27	IAS Tutorial - Power Quality

MARCH

6	COMSOC - DSL Broadband	21	IAS - IBC Code Reform
12	ExCom Meeting	31	Robot Challenge

APRIL

1	Robot Challenge	9	ExCom Meeting
3	COMSOC - WDM Optical Networking	18	IAS - Don Zipse

MAY

1	COMSOC - Multiprotocol Label Switching (MPLS) in IP networks	9	Chapter Chair Awards Dinner
??	IAS Tour - TBD		