



IEEE

The Open Channel

Newsletter for the Hampton Roads Section of the IEEE
The Institute of Electrical and Electronics Engineers, Inc.

<http://www.ieee.org/hrs>

Volume 2 – No. 1

January 2005

2005 Annual Student Paper Presentations



Speakers: Students from

ECPI, Christopher Newport University, Hampton University, Norfolk State University, and Old Dominion University

Date/Time: Thursday, January 27, 2005 at 6:30 PM

Location: McGrew Towers Conference Center

24 Indian Road

Hampton University

Hampton, VA 23668

+1 757 727 5681

Cost: Members and guests \$20; Students \$10

The Hampton Roads Section will be sponsoring the 2005 Annual Student Paper Presentations. Students from local colleges are invited to present topics on research and innovations. Prizes will be awarded to the three best presentations. Faculty and guests are welcomed to attend. Come hear what our college engineers are researching today.

Reservations: Please forward RSVP to Brent Phillips [bphillips@ieee.org] or William LaBelle [+1 757 619 9050, +1 757 421 8695, w.labelle@ieee.org].

Checks: Checks should be made out to IEEE and brought to the meeting.

Directions:

See page 3

2005 Hampton Roads Section Officers – William LaBelle

The Hampton Roads Section officers for 2005 are:

Bill Clayton, Chair

Brent Phillips, Vice Chair

Kurt Clemente, Treasurer

Dan Ulinski, Secretary

Upcoming Meetings

Jan 27	Student Paper Presentations – Hampton University	Mar 17	TBD
Feb 17	TBD – Topeka Steakhouse	Apr 21	XMSF (Modeling) – Topeka Steakhouse
Feb 20-26	Engineers Week	May 19	Social

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2004 IEEE Executive Committee Hampton Roads Section

CHAIR (Acting): William Clayton
w.clayton@ieee.org

VICE-CHAIR (Acting): Brent Phillips
bphillips@ieee.org

SECRETARY: Brent Phillips
bphillips@ieee.org

TREASURER William Clayton
w.clayton@ieee.org

OPEN CHANNEL EDITOR: William LaBelle
757-619-9050
w.labelle@ieee.org

MEMBERSHIP: William LaBelle
757-619-9050
w.labelle@ieee.org

PROFESSIONAL DEVELOPMENT:

STUDENT ACTIVITIES:

EDUCATIONAL ACTIVITIES:

AWARDS: William Clayton
w.clayton@ieee.org

WEB PAGE:
http://www.ewh.ieee.org/r3/hampton_roads/
<http://www.ieee.org/hrs>

WEB MASTER: William Clayton
w.clayton@ieee.org

THE OPEN CHANNEL is published monthly during the academic year (September through November, January through May) by the Hampton Roads Section (HR) of the Institute of Electrical and Electronic Engineers, Inc. (IEEE). THE OPEN CHANNEL is sent each month to members of the IEEE in Hampton Roads. Annual subscription is included in the IEEE membership dues. The opinions expressed, as well as the technical accuracy of authors or speakers published in this newsletter are those of the individual authors and speakers. Therefore no endorsement by the IEEE, its officers, or its members is made or implied.

All materials for THE OPEN CHANNEL are due by the 22th day of the month preceding the issue month. Address all correspondence to:

William LaBelle
6224 Glenrose Drive
Suffolk, VA 23435
Voice: (757) 619-9050
E-MAIL: w.labelle@ieee.org
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From the Chair

Welcome to 2005

While you were Christmas shopping or taking a well-deserved winters nap, our section officers were planning events and activities for 2005. We will be providing more information, but right now I would like to highlight some important efforts.

First Prof. Amin N. Dharmasi is seeking Light and Electro-Optic Society (LEOS) members who are interested in participating in a local Chapter. Contact him at adharams@odu.edu. Not to be outdone, Bob Pedigo, our Education Committee Co-Chair is seeking Education Society members for a local chapter of that Society. If you are interested, contact him at mrmpedigo@ieee.org. To form a local Society chapter we need twelve Society members to submit a petition to the Section.

We have some opportunities to impact the next generation of engineers. First at our January meeting, we will enjoy and critique a number of student presentations. The winner will go on to the Student Presentation Contest at SoutheastCon. In February, we need volunteers to participate in Engineer's Week events. This summer, Caroline County, Virginia will host the National Boy Scout Jamboree. IEEE will sponsor the electricity, electronics, and computers merit badge booths. To volunteer, please visit <http://www.emeritbadges.org/>.

You may have read that this year, for the first time since IEEE began salary surveys, the median income of members has dropped. For the first time in 15 years, real income has dropped. In these times, your professional network is vital to your continued employment and professional growth. We invite you to make our Section activities part of that network. Hope to see you at one of our activities soon.

Sincerely,
Bill Clayton
Acting Chair
Hampton Roads Section
w.clayton@ieee.org
W: (757) 203-7090
H: (757) 432-9000

Directions to Hampton University:

From Williamsburg:

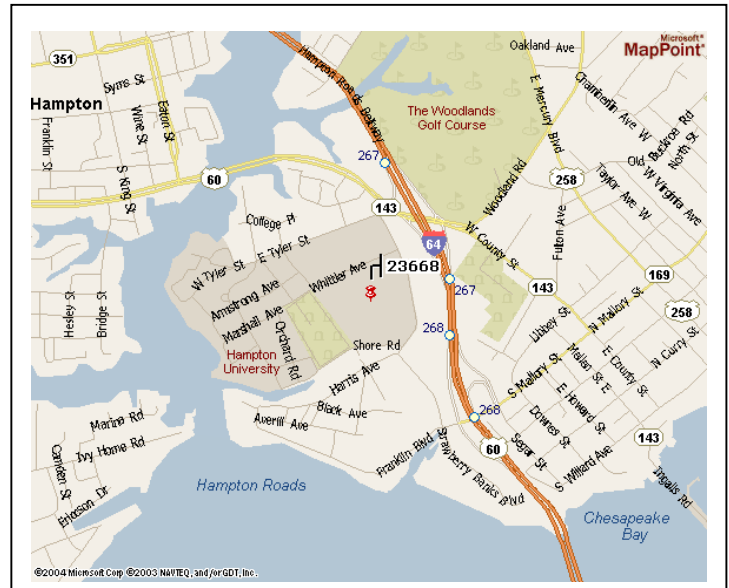
Take I-64 East to Exit-267 (Hampton University). The off ramp ends at a stoplight on Settlers Landing Road, with Tyler Street directly ahead of you. Go straight through this stoplight and continue down Tyler St. to Cemetery Road.

From Norfolk:

Take I-64 West to exit 267 (Hampton University). At the bottom of exit turn left onto Settlers Landing Road. Turn left at the next light. Keep straight to Tyler Street, turn right. Go straight through this stoplight and continue down Tyler St. to Cemetery Road.

To McGrew Towers and Lot 9:

Make a sharp right onto Cemetery Road. After passing through the guard gate, make your second right onto Marshall Avenue. At Shore Drive, make a right, and make a left onto Indian Road. McGrew Towers Conference Center is the tan & brick on-story building on your left. Visitor parking is located in Lot 9 & in the Museum parking lot. To get to Lot 9, simply drive past McGrew Towers and take a right onto Ferry Lane. Lot 9 is the first entrance to your right.



IEEE Upgrades E-Mail Alias Spam Filter

Members who use the IEEE's personal e-mail alias service now have a tighter filter against spam. The filter allows users to create lists of e-mail addresses and domains from which they never want to receive mail (the black list), and addresses from friends and business associates (the white list) whose mail will always come through. Read more at

<http://www.theinstitute.ieee.org/portal/pages/tionline/legacy/inst2004/nov04/11w.prodspam.html>.

Education Society Looking For Members—*Robert Pedigo*

Hampton Roads Section members interested in education events, activities, and organizations can contact Bob Pedigo, Education Committee Co-Chair, for information at rmpedigo@ieee.org. We are looking at establishing a local chapter of the Education Society. Current EdSoc members are highly encouraged to contact Bob and join in the effort. Those interested in joining need not be current EdSoc members, all are welcome.

For information on the Education Society and its activities, visit their web site at

<http://www.ewh.ieee.org/soc/es/> or contact Bob.

IEEE Elections

Michael Lightner Wins President-Elect Race IEEE Fellow Michael Lightner is the 2005 IEEE President-Elect. He will succeed 2005 President W. Cleon Anderson on 1 January 2006. Lightner is a professor at the University of Colorado, Boulder, USA, the current IEEE Vice President of Publication Services and Products, and a member of the IEEE Board of Directors. For more election results, visit

<http://www.ieee.org/portal/pages/newsinfo/index.html>.

IEEE Members Out of Touch – *Walt Whipple*

July 28, 2004 IEEE Virtual Community – Communications. If the concern is the 20% of members without e-mail addresses, the following article from the July Los Angeles Council Bulletin may be of interest. Incidentally, the RAB Operating Manual requires a physical mailing once a year by geographic units in order to keep those without internet access in the loop.

Are you missing out? Are you one of the 20% that doesn't get the word? If you have not been receiving electronic notification of the LAC e-Bulletin or news from other IEEE units, you may not have an e-mail address in your membership record at IEEE headquarters.

Increasingly, IEEE units have abandoned mailed newsletters due to the cost and labor involved in producing one. Instead, communication with members and volunteers is done by e-mail and web pages. All of this e-mail relies upon e-mail addresses provided by members in their membership record at IEEE national headquarters.

However, in order for you to receive e-mail from IEEE units, your current e-mail address must be on file in your membership record at IEEE headquarters.

About 20% of the membership has not supplied an e-mail address in their membership record. Another 1 or 2% has an incorrect e-mail address in their record. These members do not receive notices of meetings and other events sponsored by sections and chapters.

You can easily update your e-mail address on-line at <http://services1.ieee.org/membersvc/coa/intro.htm>. An IEEE web account will be required and may be obtained by following links from that location. If the omission of an e-mail address is not simple oversight, we'd like to hear from you to help us address the problem. If your e-mail address does not end in "@ieee.org", consider applying for an IEEE e-mail alias to use as your primary email address; an alias is very easy to update as you change jobs or providers.

The Los Angeles Council will shortly begin sending a postcard notification to those members not having an e-mail address in their record when the eBulletin is published electronically rather than in paper format as the Bulletin.

Editor's Note:

This message from Walt Whipple, distributed to members of the LAC, is suitable for all sections and IEEE members. The IEEE Hampton Roads section does not intend on abandoning mailings. However we have limited the size of the mailed version to the four pages. The postcard mailings are being considered.

As with other sections, the HR section is taking advantage of IEEE's list server and eNotice features to distribute notices. Both use the email address each member provides during membership enrollment and renewal. This requires the member to keep their email address up-to-date. There are many ways available for this purpose. The web based interactive "change of address" form; sending a email to address-changes@ieee.org or contacting IEEE Member Services directly at 1-800-678-4333 or 1-732-981-0060 (if outside of the US).

Brain Teaser Challenge Solution *by Butch Shadwel*

September 2004

If you recall my discussion of toes, an xray machine came up. "In an xray tube the xrays are produced by bombardng a metal plate with an electron beam. If the assistant controls the xray flux density by setting the current of the beam, who can tell me what happens when she adjusts the voltage?"

At the time I am writing this, I have only received only one response to this BTC. He got it right. The current through the xray tube sets the flux density. By adjusting the voltage on the tube, you are altering the acceleration potential applied to the electron beam. This means that the electrons reach a higher velocity on their way to the target plate. In the inelastic collision that follows, they have more momentum to give up which results in higher energy xrays. One might want higher energy xrays for penetrating denser tissue for a better exposure. But I bet you already knew that.

October 2004

If you've been reading this space regularly, I want to let you know that the orthotics really helped. Go figure?

This month the topic is hurricane preparedness. Here in Jacksonville, we have been hit pretty well. From Frances we lost power for a week and then lost water after the power came back. My phone lines are still screwed up. Lots of lost shingles and tree limbs but no terrible damage. The storm was bad enough to get me and my wife to take steps to weather the storm a little better the next time.

The subject today is window shutters. I have come up with a great design for window shutters that go up and come down very quickly and easily using barrel bolts into my brick wall. To test the strength I designed a strain gauge system that needs a 3 volt reference to work properly. I have a 5 volt regulated supply and two resistors with which to make a voltage divider. The Vref load is very high impedance, so the output impedance of the reference supply is not critical. On these resistors there are two brown bands, one red band, one orange band, one yellow band, and one blue band. Your challenge, should you choose to accept it, is to assign these color bands in the right sequence to each of the resistors, so that we get two standard 5% resistors that create the correct voltage divider nominally. Even though these are standard 5% values the resistors are actually 1% tolerance, and the values calculate to the exact voltage. Have fun.

Reply to Butch Shadwell at b.shadwell@ieee.org (email), 904-223-4510 (fax), 904-223-4465 (v), 3308 Queen Palm Dr., Jacksonville, FL 32250-2328. (<http://www.shadtechserv.com>) The names of correct respondents may be mentioned in the solution column.

Boy Scout Jamboree – *Ralph Russell*

Part-time Volunteers Needed for IEEE Electronics Merit Badge Booth at 2005 Jamboree

Over 100 volunteers are needed for the IEEE Electronics Merit Badge Booth at the 2005 National Scout Jamboree. We need to get a good idea of how many people on this email list, primarily volunteers from the 2001 Jamboree, are interest in volunteering in 2005. We will be taking our volunteer recruitment effort on the road to the Region 3 Meeting in Atlanta next week. If you are interested in

volunteering in 2005, please go to <http://www.emeritbadges.org/volunteers.htm> and enter your personal information. It would be helpful if you could enter your personal data by this Saturday to give us an idea of the effort needed to recruit additional volunteers.

Please let me know if you have any questions.

Thanks,

Ralph

Ralph W. Russell, II

Project Manager

IEEE "emeritbadges.org" Project

emeritbadges@ieee.org

IEEE Hampton Roads

As indicated in the October 2004 newsletter, Ralph Russell is in need of 1,000 alkaline 9-volt batteries by 1 May 2005 for **Electronics Merit Badge Booth** at the 2005 National Scout Jamboree. They will be used for the hands-on kits that the scouts will be building.

The Hampton Roads Section will collect donated batteries at each of the section meetings.

IEEE Events and Announcements

IEEE Southeast Conference 2005 (SEC 2005)

Ft. Lauderdale, Florida, April 8-10, 2005

<http://sec05.nova.edu/>

*** Call for Papers (Technical Program/Proceedings)***

The SoutheastCon 2005 Program Committee invites prospective authors to submit original papers on all aspects of engineering, science, and technology of current interest. Papers must not have been published or presented elsewhere. Both full-length refereed papers and abstracts of unrefereed papers are solicited. The conference's Technical Program is divided into 10 tracks:

- Electrical Engineering (1 & 2) - General Engineering
- Communication & Telecommunications - Networking & Distributed Systems
- Information Systems (General) - Information Systems (Database & ERP)
- Mobile Devices & Communications - Computing
- Education

List of tracks, potential topics, and track chair(s) is available via:

http://sec05.nova.edu/technical_program_track_list.htm

IEEE Employment & Career Services

The IEEE has a wealth of resources available to members to assist in employment, career planning, and professional development. We have compiled a short list of places that you, as an IEEE member, can go for these services.

Career Navigator

IEEE-USA has created the Career Navigator website which has employment assistance information, entrepreneurs' resources, information on conferences and workshops, as well as links to material that can be used for local section meetings and workshops on career development. It also provides links to the IEEE Job Site, and to the Employment & Career Strategies online discussion forum, where a variety of topics related to careers and employment issues can be freely exchanged with other members.

<http://ieeeyusa.org/careers/default.asp>

IEEE Job Site

The IEEE Job Site is the official IEEE members site to search for employment opportunities throughout the country. You can create a profile of your ideal job and update it anytime. Jobs matching the profile can be viewed immediately, or automatically sent via email.

<http://careers.ieee.org/index.html>

Employment & Career Strategies Forum

For discussion, information, and a place to bounce ideas off other members, the Employment and Career Strategies Forum is always available 24/7. Join in a discussion topic, or start your own. <https://www.ieeecommunities.org/ecs>

PACE Network

The Professional Activities Committees for Engineers (PACE) is a grassroots network of IEEE volunteers and committees organized at the section and chapter level in the United States with support from their respective regions and the IEEE-USA. The PACE Network promotes the professional interests of IEEE's U.S. members and provides a mechanism for communication of members' views on their professional needs. <http://ieeeyusa.org/pace/>

Region 3 Employment Page

Your region has established a local employment page to help members within Region 3. This page has been developed to bring together into one location the best sources of career planning, current job openings and information about companies that may be hiring in Region 3. <http://www.ieee.org/r3jobs>

Reduced Member Dues

If you are unemployed through involuntary termination and actively seeking employment, or if your income has fallen below certain levels, you can request a 50% reduction in your IEEE and society dues/assessments (including publications). Contact IEEE Member Services at 1-800-678-IEEE for details.

Your Local Section

Often the most important but overlooked employment resource is you own local Section. At your Section, you will meet engineers from other companies in your own back yard. Become a part of the local IEEE Network and be in touch and be prepared.



<http://ewh.ieee.org/ecc/r3/>

For more information on these or other topics related to employment and careers, please contact your Region 3 representative to the IEEE-USA Employment & Career Services Committee:


David Macchiarolo

d.macchiarolo@ieee.org

January 2005 Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 
2	3	4	5 ECHR EXCOM	6 SAME	7	8
9	10	11 PEC	12	13	14	15 Future City Competition – Hampton Roads
16	17 	18	19	20	21	22
23	24	25	26	27 IEEE Student Paper Presentations	28	29
30	31					

February 2005 Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 PEC	2	3	4	5
6	7	8	9	10	11	12 <i>Lincoln's Birthday</i>
13	14 	15	16	17 IEEE Meeting	18	19
20	21 <i>President's Day</i>	22 George Washington's Birthday PEC	23 NASA Career Days	24 NASA Career Days <i>Introduce a Girl to Engineering Day</i>	25 ODU Engineering Open House Engineering Excellence Banquet	26 ODU Engineering Open House PEC EOY Banquet
27	28					

March 2005 Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 ECHR EXCOM	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17 <i>St. Patrick's Day</i> IEEE Meeting	18	19
20	21	22	23	24	25	26
27	28	29 SOLE Conference	30 SOLE Conference	31 SOLE Conference		



2004 - 2005 Technology Tour Series

The Batten College of Engineering and Technology's, Technology Tours, provide executive overviews of research and development capabilities of our College through interaction with engineering faculty and researchers. These tours include campus facilities in Kaufman Hall and our satellite Enterprise Centers and provide the participant a mechanism for determining whether these resources can be utilized in their business. At the same time, gain a better understanding of how we educate your future employees for a more informed targeted hiring of co-ops and full time employees.

In 2004-2005, the tours have been designed with executives and technical management in mind. The tours are concise, requiring only a half-day time commitment of participants and focus on specific subject matter. There is no cost for attending.

Thursday, March 3, 2005-Laser Applications and Electronics focus

Thursday, April 7, 2005- Aerospace Focus

For detailed information and to register online go to http://www.eng.odu.edu/cc_tech tours.htm
or call Clair Dorsey at 757-683-4478

It was very impressive to see first hand the involvement of Old Dominion in the cutting edge research that is going on in Hampton Roads. It is equally gratifying to see that some of the results of this research have application in industries such as ours.

Virginia Children's Engineering Council Children's Engineering Convention 2005



Hello Everyone!

Below are the important dates you need to know about the convention. In addition to these dates you should also check the schedule of events!

The Secretary of Education for the Commonwealth of Virginia, Dr. Belle S. Wheelan, will be our luncheon speaker on Friday.

When you go to your administrators requesting permission and funding to attend the convention, be sure to tell them that Dr. Wheelan will be speaking and invite them to come along. Copy this e-mail and the attached flyer and take it with you or go to the web site given below to see the convention schedules and updates as well as the forms needed to come.

Announcing the 9th Annual Children's Engineering Convention

February 24-26th, 2005

Richmond Marriott West at Innsbrook (*same wonderful place as last year!*)

Important deadlines:

November 1, 2004 Call for Presentations

Using successful design and technology activities in your classroom? How about sharing your original ideas with others?

You will be notified by December 15th.

December 15, 2004 Registration deadline to qualify for freebies !

January 15, 2005 Registration deadline

January 15, 2005 Hotel cut off for group rate

Forms for submitting presentation proposals, registration and hotel are online at <<http://www.vtea.org/ESTE/>> .

For additional information contact:

Linda Harpine <lharpine@cs.com> or George Willcox gwillcox@pen.k12.va.us

Marcia Hickey

Children's Engineering Educators, LLC

mdhickey@verizon.net or mhickey@childrensengineering.com

Future City Competition

The **2004-2005 National Engineers Week Future City Competition** is here!! This is the sixth year the Hampton Roads region is participating in this national competition. **The Engineers Club of Hampton Roads** is proud to be sponsoring the competition again this year. The Future City Competition challenges teams of seventh and eighth grade students, working with a volunteer Engineer mentor, to design a city of the future using SimCity software (provided by Maxis). The students then build a scale model of their city, write an essay about an assigned engineering related topic, and make an oral presentation of their project to a panel of judges.



The Future City Competition is an exciting program for the public and private middle schools of Hampton Roads, and it promotes engineering, architecture, and planning as a career path for our children. In addition, it can also be used to enhance several SOL areas. The final regional competition will be held on January 15, 2005, at the Virginia Air and Space Center. The winner will have a chance to go on to the National competition, to be held in Washington D.C. ***We hope you will consider sponsoring this event.*** As an event sponsor, your company will be associated with an exciting educational event that is a win-win situation. Sponsors will receive good public relations exposure and are able to positively impact the students involved. This year we are offering the opportunity to sponsor a special award. For a donation or “in-kind” services of a value of \$500 or greater, a special award will be presented in your honor. **Your special award will be tailored to your company – concerning a topic of your choosing, or we can suggest a topic, if desired.** At your option, you can provide judges at the competition to judge and present your award; or, if preferred, we can present the award in your organization’s name. In addition to monetary contributions, your firm may also contribute time and education by participating as an **Engineer Mentor** for one of the local schools. We would appreciate any level of sponsorship and are hopeful your company can participate! If you have any questions please do not hesitate to call Mark DelSordo at (757) 474-0612.

The Engineers Club of Hampton Roads is looking for volunteers to work with our Officers and Board of Directors on some important tasks. We are looking for volunteers to serve on the Roster Committee, the By-Laws Committee, and a Social Activities Committee. These volunteer opportunities are flexible with your schedule and may take an hour or two of your time per month. If you would like more information or have any questions, please contact Selena Moore at smoore@rickmond.com or any of the Officers.

Outstanding Engineering Achievements Award Program

The Engineers Club of Hampton Roads is pleased to announce its Annual Outstanding Engineering Achievements by Hampton Roads Engineers Program. This program serves to recognize Hampton Roads engineers for outstanding technical accomplishments and highlights significant engineering activity by Hampton Roads engineers. Achievements in engineering are broadly defined to include innovative design, new products or processes, new software or systems that were completed by a Hampton Roads engineer during the 2004 calendar year. Last year's winner was: ***Stroud Pence for the beautiful new Constant Convocation Center.***

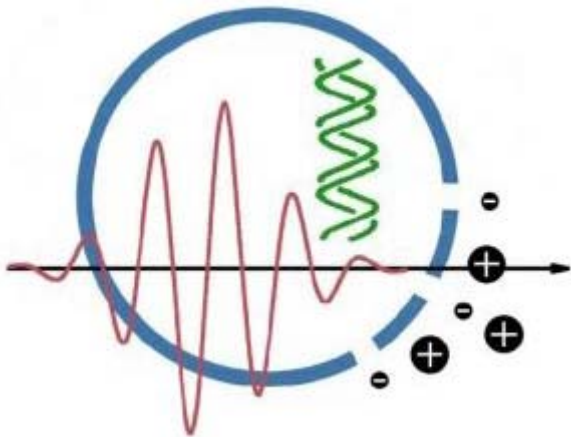
Previous winners of the award include Parsons Brinckerhoff Quade and Douglas, Inc. for the Vietnam Veterans Memorial Bridge, Collins Engineering for innovative traffic engineering in the City of Virginia Beach, Glenn Sadler(Trans Systems) for the Wisconsin mooring, The City of Virginia Beach, Hayes, Seay, Mattern & Mattern for the Norfolk Central Energy Plant, Malcolm Pirnie, Inc. for the design of the City of Newport News Waterworks Residuals Management Facilities; Stroud, Pence and Associates for design of the Harrison Opera House in Norfolk; URS Consultants, Inc. for design of the Elizabeth River Watershed; and Parsons Brinckerhoff Quade and Douglas, Inc. for the George P. Coleman Bridge Reconstruction. Outstanding engineering achievements will be recognized during the annual Engineers Week dinner on February 25, 2005. You are encouraged to submit your outstanding engineering achievements for possible recognition at this event. Please call Vince Donnally at (757) 322-4204 or email at: [Vincent.Donnally @ Navy.mil](mailto:Vincent.Donnally@Navy.mil)

Engineers Week, February 20-26, 2005 is fast approaching. This year it is co-chaired by ASME (The American Society of Mechanical Engineers) and BP p.l.c. Information on nation-wide activities may be found at www.eweek.org.

Locally, there are numerous activities around the Hampton Roads area related to Engineers Week. Most of the events are long-standing traditional events. For the professionals there are the banquets held to honor personal (usually life-time) and organizational achievements. Then for young the engineering societies sponsor various competitions. However, not all of the events are held during Engineers Week. Many are held during months preceding or following the Engineers Week.

For the past two years I have put assembled a bulletin of Engineers Week events for the Hampton Roads Section of IEEE. I would like to extend the bulletin to all engineers in the area and the HRESC is an appropriate venue for such a publication. I would like to publish at least two "Hampton Roads EWeek Bulletins". The first would be in December with the second at the end of January. I am aware of some events but do not have dates.

I need the engineers from across the region to forward announcements on their society's EWeek related activities to me. Information for the event should include description or title, date, sponsor(s), and contact. The announcement can include expanded information such as historical references about the event, elaboration on each sponsoring group, website, etc.



REGISTER NOW! ElectroMed 2005 Conference

Registration is now open for ElectroMed 2005 conference to be held **May 15-18, 2005** in Portland, Oregon.

Please go to website www.electromed2005.com for information on the conference and registration.

- Early Bird General Registration: \$450.00 valid through **February 15, 2005**.
- General Registration: \$500.00 after **February 15**

Abstract submissions will be accepted until **January 31, 2005**. (*Note: Revised deadline date due to printing restrictions.*) Please see the registration website listed above for instructions and template. Notification of acceptance will be sent out March 15, 2005.

Kind regards,
MicroET, host of ElectroMed 2005

Mid-Atlantic Log



7th Annual

**2005 Mid-Atlantic Logistics Conference
And Professional Development Workshop**

"The Lean Logistics Enterprise "

March 29-31, 2005

Woodlands Conference Center

Williamsburg, VA

*For Additional Information, Please view our [announcement](http://www.mid-atlantic-log.net/2004%20Announcement.htm) at
[http://www.mid-atlantic-log.net/2004 Announcement.htm](http://www.mid-atlantic-log.net/2004%20Announcement.htm).*

Sponsored by

District 02 -The Mid-Atlantic Chapters

SOLE - The International Society of Logistics

Reserve The Date For:

ASNE DAY 2005

WHEN:

**Tuesday, April 26, 2005
Wednesday, April 27, 2005**

**HISTORICAL
EXPERIENCE:**

**2000 + Attendees, Guest Speakers,
150 + Exhibitors, Panel Discussions
and Technical Paper Presentations**

WHERE:

**Pavilion Convention Center
Virginia Beach, Virginia**

POC:

**Exhibits - Megan Sinesiou
msinesiou@navalengineers.org**

**Information - Kurt Nelson
knelson@qedsysinc.com**

**Naval Engineering for
Joint & Coalition
Rapid Maritime Response**

