



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>
http://www.ewh.ieee.org/r3/hampton_roads/

Volume 1 – No. 8

November 2004

System Safety / Software Safety

Speaker: Mr. Hunter Levan
Director of Consulting, HCRQ, Inc.

Date/Time: Thursday, November 18, 2004 at 6:30 PM

Location: Kaufman Hall 103
Old Dominion University
5115 Hampton Boulevard
Norfolk, VA 23529
+1 757 683 3000

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

Mr. Hunter Levan, from our neighbors to the north, will be speaking on System Safety and Software Safety. Topics of discussion include: accidents and incidents, myths regarding safety, addressing the nature and cause of accidents, proactive approach, post-design approach, reactive approach, exposure and liability, et al.

Biographical sketch: Mr. Hunter Levan is Director of Consulting for HCRQ, Inc. He has a Control Systems Technology degree, and a Master's degree magna cum laude in Electrical Engineering. He was the recipient of several awards and scholarships.

Hunter has 16 years of experience in the areas of system safety and software safety having focused on the safety-critical areas of defense, avionics, nuclear power, light and heavy rail systems (especially driver-less), and medical devices. His analytical experience also includes that of systems which have failed catastrophically resulting in death, and system loss.

He pioneered system and software safety efforts in Canada, becoming one of its most famous experts and is well known internationally for his expertise. He is known for his keynote speaking engagements and has appeared on television.

Hunter has been teaching a course in software/system safety for the past 12 years. The course, considered by many to be the de facto standard in North America, teaches how to design safety into high complexity software-based systems.

He is currently consulting to Lockheed Martin on the IDOT PTC (Positive Train Control) project.

Hunter was responsible for system safety on DND's Maritime Helicopter Project. He was CAE's software safety committee chairman, in connection with the Control and Instrumentation system for the Royal Navy's Nuclear Powered Astute Class Submarine.

Hunter was consulting to Bombardier Transit Systems where, for 3 years, he was their RAMS Manager. He was responsible for the RAMS, LCC, and security design/analysis aspects of their Ankara, Kuala Lumpur, Jacksonville, JFK Airport, Las Vegas, and Vancouver SkyTrain light rail systems.

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.

Upcoming Meetings

Jan 27 Student Paper Presentations
Feb 17 TBD

Feb 20-26 TBD
Mar 21 TBD

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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

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All materials for THE OPEN CHANNEL are due by the 25th 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

Dear Colleagues,

Get Your Money's Worth

At \$153 dollars a year, the Spectrum is a very expensive magazine subscription. Institute membership is only cost effective if you use some of the other benefits. On their homepage, the Institute lists four broad categories of benefits: essential information, networking solutions, career development, and exclusive benefits.

I am working hard to make sure that the Section activities are an important part of your IEEE networking solutions. We do this on a limited budget. Because we use the less expensive bulk mail, the Post Office will not guarantee that every member will receive a newsletter before our meeting. Your feedback tunes our delivery schedule. So do not be bashful, shoot an email or call our editor if your newsletter arrives after the meeting.

Similarly, our most efficient method of contact is electronic mail. We have recently switched from the old majordomo list server to a new e-notice service centrally managed by IEEE headquarters. This serviced has the potential to eliminate spam and more quickly adjust to address changes. It can only work if you list an email address in your member profile. Currently 16 percent of you do not list an email address. Unfortunately, my experience has shown a significant number of you list invalid addresses. This means you are missing a lot of timely information the Institute has to offer. So please take time to update your email address when you renew your membership this year.

Getting the notices of Section activities is only the first step. Without active participation in either Section or Technical Society activities, you are still not getting your money's worth. Please attend the next meeting. If you choose not to attend, please tell us why. This is your section and we are trying to serve your needs.

I look forward to hearing from you.

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

Engineer of the Year– William Clayton

Michael McBeth is the IEEE Hampton Roads Section Engineer of the Year for 2004 and is our nomination for the Peninsula Engineering Council Engineer of the Year. Mike works for the Space and Naval Warfare Systems Center Charleston and serves as the Director of the Joint Methodology to Assess C4ISR Architecture (JMACA) Joint Test and Evaluation project in Suffolk, Virginia. More information on Mike is available on line at http://ewh.ieee.org/r3/hampton_roads/awards/2004-EOY.html.

Is Your password Secure? – William Clayton

The password is your most valuable security tool. Aside from actually keeping it secret, password selection is one of the most important security responsibilities you have. Good passwords have at least eight characters with a high degree of entropy. Increase character entropy by mixing lower and upper case letters, punctuation and numbers. According to the IEEE Security and Privacy, the best way to form a random password is to use a pass phrase. Create a familiar sentence, such as “This is 1 really good password!” Use the first letter from each of the words to recreate the pseudo random password of “Ti1rgpw!”

For those of you that tried to download our PowerPoint presentation on Wireless Security, http://ewh.ieee.org/r3/hampton_roads/webmaster/security.html now points to the right download.

Old Dominion University:

Directions from the Peninsula

1. I-64 E until you reach exit 276, VA-406/NAVAL BASE./ TERMINAL BLVD. This exit is about nine miles away once you emerge from the Hampton Roads Bridge-Tunnel.
 2. Once on the exit ramp, stay to the right as it splits into a “Y”. Once on I-564, stay right again following the first exit to TERMINAL BLVD.
 3. Continue straight through to Hampton Blvd (third traffic light). Turn left.
 4. Follow Hampton Blvd. To 49th Street (approximately 3 miles).
 5. Turn right on 49th Street.
 6. Turn left on Elkhorn Avenue.
 7. Parking is available in Lot #27 on Elkhorn Avenue.
 8. The meeting will be held in the atrium of Kaufman Hall.
-

Become a Senior Member

- Senior Member drive

Of the 450 of the sections active membership hold a grade of ‘Member’ almost 400 may be eligible for upgrade. Information on requirements for elevation from ‘Member’ to ‘Senior Member’ can be found at <http://www.ieee.org/organizations/rab/md/smprogram.html>.

Membership Renewal 2005

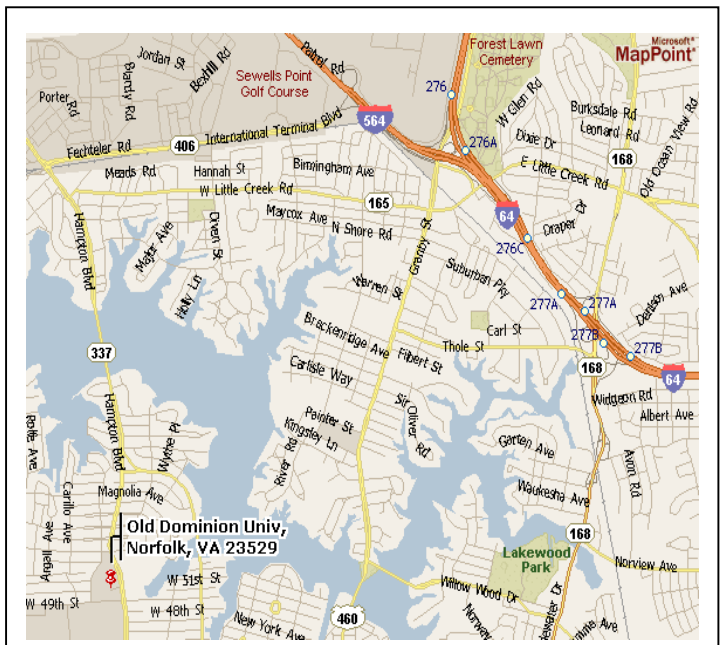
IEEE membership renewal drive is underway, the renewal notices have been mailed. Keep your IEEE membership current for 2005. Consider renewing online. This year you do not need an online account to renew, you need member number and a PIN (provided in the renewal notice). IEEE has made it easy to view/update your current membership information, add Society memberships and subscriptions to IEEE publications

Renew at <http://www.ieee.org/renewal>.

Members can register for a Web Account at: <http://www.ieee.org/web/accounts>.

Vote in the IEEE Election

Annually, the IEEE members are requested to participate in the IEEE elections. This is your opportunity to provide input to determine who will serve on the IEEE Board of Directors, Regional Activities Board, Technical Activities Board, IEEE-USA Board and the Standards Association Board. The ballots have been mailed and must be returned PRIOR to 1 November 2004. For the first time, members may cast their ballots either electronically or by mail. Instructions and codes for electronic transmission are provided in the election ballot materials.



Visit the IEEE election website (<http://www.ieee.org/corporate/elections/candidates.xml>) for the most accurate and up-to-date information on all candidates and election categories. In addition to selecting candidates, this year members also are being asked to vote on a constitutional amendment containing revisions to the wording of the IEEE Constitution. For detailed information on these changes, visit <http://www.ieee.org/about/whatis/bylaws/changesgrid.xml>.

Please return your ballots or vote online by the requested due date.

Call for Nominations Region 3 Delegate/Director - Elect

As prescribed by our Region 3 Bylaws and Operations Manual, we are requesting the Region 3 Committee (ExCom and Section Chairs) to submit candidates for Region 3 Delegate/Director - Elect for the term 2006 -2007. Two or three of the candidates submitted will be selected and placed the ballot for a region wide election held in the fall of 2005. Based on the results of this election one candidate will be elected as our Region 3 Delegate/Director - Elect (2006-2007). This person will then become the Region 3 Delegate/Director and will serve for the term 2008 - 2009.

The submitted candidates must meet the following qualifications:

1. IEEE Senior Member or Fellow grade.
2. Have demonstrated prior leadership and management skills within Industry/Academia and have been active at the IEEE Section/Chapter, Regional/Society, and/or major Board level.
3. Must agree to serve two years as Delegate/Director - Elect and two years as Delegate/Director. Please submit prior to September 30, 2004 the name, IEEE member grade and number, contact information and a brief statement of the candidates qualifications to:

Jim Howard,
Region 3 Nominations and Appointments Committee Chair
3133 W. Paris St.
Tampa, FL 33614
Phone: 813-876-1748
E-mail: j.howard@ieee.org

The qualifications of all nominees submitted will be discussed by the Nomination and Appointments (N&A) Committee. The N&A Committee will report its recommended nominees to the Region 3 Executive Committee (ExCom) for approval. The Region 3 Committee will be requested to endorse the ExCom slate of nominees to be placed on the IEEE election ballot for

Hampton Roads Section Annual Elections

Locally, the Hampton Roads Section will be holding its annual election of officers in November. As with all sections and chapters in IEEE the elected positions are: Chair, Vice Chair, Treasurer, and Secretary.

The candidates are:
Bill Clayton, Chair
Brent Phillips, Vice Chair
Kurt Clemente, Treasurer
Dan Ulinski, Secretary

Send in your nominations now to William LaBelle [w.labelle@ieee.org]. Nominations will be accepted from the floor before the election.

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 orthodics 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 Hampton Roads Executive Committee Meeting

9 December 2004

Cora

723 West 21st Street

Norfolk

625-6100



Please RSVP by November 29th to officers-r3-hamptonroads@ieee.org. Location subject to change based on group size. Location confirmation will be e-mailed to respondents by 7 December.

Agenda

- 6:00 PM Executive Committee Meeting

Meal Costs

- **Free for all Executive Committee members.**
 - **Elected Officers**
 - **Committee Chairs**
 - **Committee Vice Chairs**
 - **Student Branch Counselors**
 - **Student Branch Chairs**
 - **Prospective Volunteers**

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://ieeusa.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://ieeusa.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:

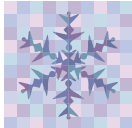

David Macchiarolo

d.macchiarolo@ieee.org

November 2004 Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 <i>Election Day</i>	3 <i>ECHR EXCOM</i>	4	5	6
7	8	9 <i>PEC</i>	10 PMI & AIPT Project Planning Symposium	11 <i>Veterans Day</i>	12	13 SWE, NSBE, IEEE Professional Development SymposiumS
14	15	16	17	18 <i>IEEE HR Mtg</i> <i>INCOSEBOD / Chp Mtg</i>	19	20
21	22	23	24	25 	26	27
28	29	30				

December 2004 Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 <i>ECHR EXCOM</i>	2	3	4
5	6	7	8 <i>Hanukkah</i>	9 <i>IEEE EXCOM</i>	10	11
12	13	14 <i>PEC</i>	15	16	17	18
19	20	21 	22	23	24	25 
26 <i>Kwanzaa</i>	27	28	29	30	31 <i>New Years Eve</i>	

January 2005 Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1			1 <i>New Years Day</i>
2	3	4	5	6	7	8
9	10	11 <i>PEC</i>	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Local Announcements



Building professionalism in project management.™

Project Management Institute
Hampton Roads Chapter



Dream IT, Visualize IT, Live IT: Symposium on IT Project Planning

November 10th at the Radisson Fort Magruder Hotel and Conference Center in Williamsburg!

Welcome to the 2004 Symposium on IT Project Planning, jointly hosted by the Hampton Roads chapters of PMI and AITP. This symposium is designed to present you with current, state of the art, and practical solutions to your planning problems.

Learn proven methods from metric experts at: Microsoft, Realization and Elipsis!

- Discover new techniques
- Learn what works
- Meet new contacts
- Network with your peers

Early registration fees are only \$30 for members of AITP and PMI, \$45 for non-members if paid by November 1st. After that date, fees are \$50 for members, \$100 for non-members. Don't wait - Register today!

Visit the website at <http://www.pmihr.org/> to register! Download the brochure for the IT Project Planning symposium here!

This event includes a catered lunch, exhibit displays and a free raffle for valuable prizes!

On behalf of the entire planning committee and the sponsoring organizations, we welcome you to the 2004 Seminar on Project Planning!

For further information about the event, please email Steve Waddell or George Koscho.

We hope to see you there!

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

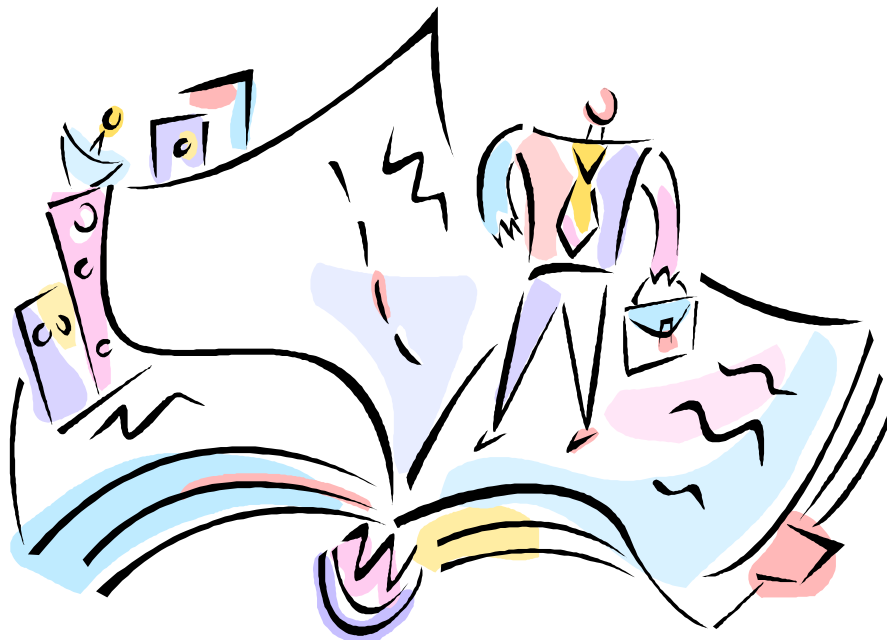
PROFESSIONAL DEVELOPMENT SYMPOSIUM

SATURDAY, NOVEMBER 13, 2004

ODU PENINSULA CENTER

8:30 AM - 2:00 PM

SPONSORED BY: SWE, NSBE, & IEEE



WORKSHOPS

1 - CAREER BUILDING

2 - TEAM BUILDING

3 - LEADERSHIP

4 - PROJECT MANAGEMENT

5 - ENTREPRENEURSHIP

6 - COMMUNICATION

BREAKFAST EXCLUSIVELY SPONSORED BY PANERA BREAD

LUNCH PROVIDED BY IEEE, NSBE, & SWE

COST:

IEEE, NSBE, SWE MEMBERS & STUDENTS: \$10 UNTIL NOVEMBER 1

NON-MEMBERS: \$20 ALL AT THE DOOR: \$20

RETURN BY November 1, 2004

To: SWE-HR, 42 CREEKSIDE DR, PORTSMOUTH, VA 23703

NAME _____

PHONE NUMBER _____

EMAIL _____

WORKSHOP INTEREST (PLEASE CIRCLE): 1 OR 2 AND 3 OR 4 AND 5 OR 6

ORGANIZATION/AFFILIATION _____

AMT PAID _____

PLEASE MAKE CHECKS PAYABLE TO: SWE-HR

Professional Development Symposium

NSBE, IEEE & SWE are combining resources to sponsor a Professional Development Symposium. The theme is Leadership with a focus on Project Management.

This intense, knowledge-filled symposium will be held Saturday, November 13 from 8:30 am until 2:00 pm at the ODU Peninsula Center, in Hampton. It is designed for the busy engineering professional ready for the next step in his/her career. Topics to be covered are Project Management Certifications, Team Building, Career Building, Effective Communication, the Story of a PE Entrepreneur, and Leadership. A collection of Professional Development books will be available for your browsing during the event. Come out to learn from some of the leaders and experts in our local community about ways to improve your professional career.

Speakers include Dr. Runte, President of ODU; Ms. Mary Lou Mortimer, President of NRW Engineering, P.C.; Dr. Alexis Fink, BASF Corporation; Mr. Dave Walters, Vice President of Lee Group Recruiting; Ms. Kelley DuBois, Microsoft Corporation; Mr. Kenny Rogers, Northrop Grumman Newport News; Mr. Alan Sutton, President of Hampton Roads PMI Chapter.

The cost is \$20. \$10 for members of SWE, IEEE, NSBE and students who register by November 1, 2004. All registration at the door is \$20.

Continental Breakfast exclusively sponsored by Panera Bread.
Lunch will be provided by SWE, NSBE and IEEE.

Contact: Terri Mills 757-688-6047

DIRECTIONS TO ODU PENINSULA CENTER:

From Richmond Area

Take I-64 East to Exit 261B (Hampton Roads Center Parkway East). Exit at Magruder Blvd. At the stoplight, turn left onto Magruder (134 North). At the first traffic light past the Parkway interchange, turn left onto Butler Farm Road. The Peninsula Center is located approximately $\frac{3}{4}$ mile on the right in the Peninsula Workforce Development Center, just before the TNCC campus. The Peninsula Center is on the second floor.

From Norfolk Area

Take I-64 West through the Hampton Roads Bridge Tunnel to Exit 262B (Magruder/ NASA/Poquoson Exit). Stay in the left lane on Magruder. At the third traffic light, turn left onto Butler Farm Road. The Peninsula Center is located approximately $\frac{3}{4}$ mile on the right in the Peninsula Workforce Development Center, just before the TNCC campus. The Peninsula Center is on the second floor.

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**

