



The Open Channel

Newsletter for the Hampton Roads Section

The Institute of Electrical
and Electronics Engineers, Inc.

April 2001

April Meeting “Whole Building Design Guide”

Speaker: Richard R. Paradis, P.E.
Criteria Manager for Electrical and Energy Criteria
Atlantic Division, Naval Facilities Engineering Command,
Norfolk, VA

Date: Thursday, April 19, 2001

Location: Sammy & Nicks
2718 Mercury Blvd
Hampton, Virginia

Schedule: 6:00 p.m. - Administrative Meeting
6:30 p.m. - Social
7:00 p.m. - Dinner
7:30 p.m. - Speaker

Price: Member - \$15.00
Student - \$7.50
Guest - \$15.00

Directions: Take I-64 to Mercury Blvd. (from the south side, go through the Hampton Roads Bridge Tunnel), Exit westbound on to Mercury Blvd., and travel approximately 1.5 miles. Sammy and Nick's is on the right.

About the Speaker:

Richard R. Paradis, P.E.

- Graduate of UMASS-Dartmouth with Bachelor of Science in Electrical Engineering.
- Engineer in Massachusetts and District of Columbia.
- Board Certified Noise Control Engineer (only one in all NAVFAC).
- Named Atlantic Division “Engineer of the Year” in 1994.
- Norfolk Environmental Commission “Award of Excellence,” October 2000.
- Member of: Institute of Electrical and Electronics Engineers (IEEE)
- Institute of Noise Control Engineering (INCE)
- Co-Developer of the Whole Building Design Guide, an Internet-based resource for designing high-quality, sustainable buildings.

- Founding Member: Hampton Roads Sustainable Communities
- Co-organizer of the first Hampton Roads Sustainability Forum
- Internationally published papers in noise control engineering
- Special areas of technical knowledge: acoustics and noise control, sustainable design principles, intrusion detection systems, radio frequency shielding, energy efficient products and systems, and the Whole Building Approach to designing quality buildings.
- Speaker on Sustainable Design, Whole Building Design and Sustainable Communities at a number of events, including:
 - Mainstreaming Green: Sustainable Design for Buildings & Communities*, Chattanooga, TN
 - Construction Specifications Institute*, Norfolk VA Chapter
 - American Society of Civil Engineers* “Green Works: Sustainable Design” in VA Beach
 - National Town Meeting for a Sustainable America*, Detroit International Energy and Environment Congress, Chicago
 - Environmental Green Breakfast*, Virginia Beach, VA
 - Society of American Military Engineers*, Norfolk, VA
 - First NATO Sustainable Building in Military Infrastructure Conference*, The Hague, The Netherlands, March 2000

Topic Abstract: The Whole Building Design Guide (WBDG), is an Internet-based Resource for designing high-quality, sustainable buildings. “In 1995, my coworker, Dennis Talton, and I conceived the idea of developing a way to access the necessary design information from the web. Our existing design criteria was outdated and voluminous. We did not have the funding to update the many criteria manuals we use, so we felt that producing a web site with the needed information, along with links to other web sites, tools and references would be a way of bringing our criteria up to date within the limited available funds. Other Federal agencies saw the value of the WBDG, and now a partnership of 18 Federal agencies exists to manage the WBDG and coordinate its further development. I will also touch on the unification of the three military services' engineering and design criteria and that effort's relationship with the WBDG.”

Report from SoutheastCon 2001

SoutheastCon 2001 was held at Clemson University in South Carolina. The setting was very scenic, surrounded by a lake and golf course with a view of the hills blooming with new growth. Almost wanted to stay.

CU put on a good conference and had a productive Region 3 meeting. Some of the highlights of the conference were that the SoutheastCon 2002 will be held in Columbia, SC and that in 2003 it will be held in Ocho Rios, Jamaica. *Irie mon.* The sites for 2004 and 2005 are open.

Though the Hampton University team did not win the paper contest, they placed in the top 3 for the presentation portion. It was the first time that a Hampton team entered this contest and were encouraged to try again. Let's give them a congratulatory hand. They will be back. You'd think Jamaica is a good incentive.

Two other student design competitions were going on: the hardware contest and software contest. Let's try to get more of our students involved for 2002. It is a valuable experience for the students and good advertisement for the school.

-William Edmondson

SoutheastCon 2001 Hardware Competition. A team of six students from Old Dominion University participated in the Hardware Competition of SoutheastCon 2001. The team had designed and built an autonomous robotic vehicle to navigate a track picking up steel balls while competing against another vehicle.

During the practice runs on March 30, ODU's car became the one to beat. The random pairings and rules of the competition allowed cars that could not score more points than our car to finish ahead of us. In fact, two of the cars ahead of us never dropped a single ball in the scoring bin! By the end of the day, however, the car developed mechanical and electrical problems.

The competition took place on March 31. The mechanical problems were solved but they did not get to finish solving the electrical ones. Nevertheless, their car finished in 8th place out of 19 schools.

-Oscar Gonzales

Educational Activities Board

For complete access to IEEE educational products and programs, log onto www.ieee.org/eab. The site offers the online education reading room, video on-demand, the NewsWire, contests and prizes, and much more.

INTERNSHIP OPPORTUNITIES Are you looking for internship opportunities? Visit IEEE-USA's Student Services page at <http://www.ieeeusa.org/careers/student.menu.html> for a list of great opportunities in the government, industry and education sectors and at the IEEE. This page also has valuable information: - IEEE Student's Activities - Engineering Contests - Career Guidance - Professional Awareness - Careers & Education.

Opportunities to Volunteer

NOMINATIONS FOR 2002-2003 OFFICES IEEE-USA's Nominations and Appointments (N&A) Committee has issued a Call for Nominations for IEEE-USA elected positions. These officers help direct the day-to-day operations of IEEE-USA -- providing leadership for programs and volunteer committees, overseeing IEEE-USA's financial performance, and promoting new member services and activities.

Nominees must be IEEE Senior Member grade or higher, and reside in IEEE Regions 1-6. The N&A Committee is especially interested in nominations of Senior members who are also Graduates of the Last Decade (GOLD). The formal nomination deadline is 15 May 2001, although the N&A Committee welcomes recommendations for qualified candidates year-round. Nomination forms and detailed position descriptions are available on-line at <http://www.ieeeusa.org/election/nominations.html> or can be obtained from Michell Scott at m.scott@ieee.org or by contacted the IEEE-USA Washington office.

Part time volunteers are needed to help administer the Electricity and Electronics Merit Badges at the 2001 National Scout Jamboree. The National Boy Scout Jamboree is a ten day encampment held every four years (including 2001) in which Scouts from all over the USA and several foreign countries meet to celebrate the joys of scouting. One of the biggest and most prestigious events of the Jamboree is the group of more than 50 Merit Badges. Hampton Roads and Richmond have traditionally been the principle supporters of merit badges in IEEE. The jamboree will occur on July 23 through August 1 at Fort A. P. Hill, Virginia, located just to the east of I 95 near Fredericksburg.

If you are interested, contact any of the Hampton Roads officers. If you would like to learn more about our Jamboree project, go to the web site: <http://www.emeritbadges.com>. If you have any questions, please send them to emeritbadges.volunteers@ieee.org

2001 CONGRESSIONAL S&T VISITS DAY IEEE-USA asks the IEEE's U.S. members to join hundreds of other engineers and scientists for 2001 Congressional Visits Day (CVD), 1-2 May in Washington, D.C. CVD stresses the long-term importance of science and technology to the nation's health and economy through meetings with congressional decision-makers.

IEEE-USA's Technology Policy Activities Council will coordinate meetings on the Hill for participating IEEE members. CVD provides an excellent opportunity for new IEEE volunteers with an interest in public policy to get involved with IEEE-USA's government relations. To volunteer for 2001 Congressional Visits Day, or for more information, visit <http://www.ieeeusa.org/forum/cvd/index.html> or contact Deborah Rudolph at <mailto:d.rudolph@ieee.org>.



TODAYS ENGINEER WEBZINE IEEE-USA TODAY'S

ENGINEER, in "webzine" format, includes feature articles and short blurbs, many of global interest, with career guidance, tips, strategies and solutions for all sectors of the profession. It encompasses the latest career enhancement products and services. To view the February edition of IEEE-USA TODAY'S ENGINEER, with a feature on time-management skills, go now to

<http://www.todaysengineer.org/careerfocus>. Avoid missing a single update: sign up now for monthly reminders of the webzines' publication. Go to

<http://www.todaysengineer.org/emailupdates>. See for yourself how IEEE-USA's new webzines will help you identify the skills and issues that will have the greatest impact on your career, as well as relate your career to the many technology and public-policy issues being discussed at the local, state and national levels.

The IEEE Conference Database search functions includes all meetings run by, or in association with, the IEEE. Sponsors include Technical Societies, geographic Regions, and specialized Boards/Committees. The conference database search will identify a specific meeting or group of meetings. The returned list will be chronological and include all meetings that meet your search criteria. To access this search function, please log-on to <http://www.ieee.org/conferencesearch/>

The Multimedia Technology and Applications Conference (MTAC 2001) is sponsored by the IEEE Orange County Section, and the IEEE Computer Society.

Multimedia Technology and Applications Conference Multidisciplinary Digital-Media Conference November 7 - 9, University of California at Irvine. CALL FOR PAPERS - to both Scientists and Artists 500-word Abstract of proposed conference presentation - by April 30th, 2001 Full Paper by August 1st, 2001. Details <http://www.mtac.uci.edu>

The World Conference of Women Engineers and Scientists is coming to Ottawa, Canada in July 2002! Visit their web site for a view of the program with symposia on Global Climate Change, Ethics and Science, and Globalization and impact on women. There will be many exciting debates, workshops, roundtables, and up-to-date research on women in science and engineering. The cultural program will be as inviting as the scientific one. For more information, log-on to <http://www.icwes12.org> or email: Cheryl_cadrin@carleton.ca (coordinator) with subject line: ICWES12.

April is the month the green returns to the lawn, the trees and the IRS.

REGISTER FOR THE 2001 IEEE-USA CONSULTANTS DATABASE Get your consulting practice off to the right start this year by registering for the 2001 IEEE-USA Database of Electrotechnology and Information-Technology Consultants. Last year, more than 30,000 visitors searched the consultants database on the Web -- a 100 percent increase over 1999. Register now at www.ieeeusa-consultants.org to establish or renew your listing in the database for one year. Cost remains only \$65 for IEEE members (\$90 for non-members). As a bonus, registrants who enroll by 1 May will receive two copies of the database on CD-ROM, at no extra charge -- a great tool for using the database while traveling, and the perfect "give-away" to a prospective client.

INVENTION DIMENSION: SCIENCE, ENGINEERING AND ENTREPRENEURSHIP The Lemelson-MIT Program is an MIT-administered program launched in 1994 by the late Jerome H. Lemelson and his wife, Dorothy. According to the program's website, called Invention Dimension, the program's mission is "to inspire a new generation of American scientists, engineers and entrepreneurs by celebrating, through awards and educational activities, living role models in these fields." Invention Dimension serves as a clearinghouse for information about inventors and inventing, and can be found at: <http://web.mit.edu/invent>

2001 Section Officers

Chair: VACANT
Acting Chair: Sam Simmons ssimmons@ieee.org
Vice Chair: William Edmondson
Willam.Edmondson@Hamptonu.Edu
Treasurer: VACANT
Secretary: Tim Gavin t_r_gavin@ieee.org
Newsletter: Judith Brandon JBrandon@IEEE.org
Membership: William LaBelle W.LaBelle@ieee.org
Web Manager: William Clayton w.clayton@ieee.org

Region 3 Addresses

R3 Web Site: <http://sandbox.ieee.org/r03/>
Hampton Roads Web Site:
http://www.ewh.ieee.org/r3/hampton_roads/
ETI Web Site: <http://sandbox.ieee.org/r03/eti/eti.html>
ETI Authorization: eti-info@eng.uab.edu

Hampton Roads Distribution List

To SUBSCRIBE send an e-mail message to majordomo@majordomo.ieee.org and place the command **subscribe r3-hamptonroads-members <your.email >** in the body of the message.

To UNSUBSCRIBE send an e-mail message to majordomo@majordomo.ieee.org and place the command **unsubscribe r3-hamptonroads-members <your.email >** in the body of the message.



IEEE Computer Society, TC-Engineering of Computer-Based Systems

ANNOUNCES

IEEE TC-ECBS

Standards Focus Group

Sponsors

A Workshop on Analysis and Comparison of Systems Engineering Process Standards

Washington, DC, April 20, 2001

(following the IEEE ECBS'2001 Conference, <http://www.dcs.napier.ac.uk/ecbs>)

Goal

The workshop provides a forum for analysing and comparing four important standards in the area of systems engineering processes. Three American standards, as well as the International ISO/IEC 15288 System Life Cycle Processes standard, are the objects of analysis and comparison. The American standards to be covered will be (1) ANSI/EIA 632, "Processes for Engineering a System," (2) EIA/IS 731, "Systems Engineering Capability Model," and (3) the Integrated Capability Maturity Model (CMMI) which covers process areas for systems, software and integrated product development.

The goal is identify the similarities and differences thus providing useful inputs to related standardization groups.

Workshop Organizers

Harold W. Lawson, Lawson Konsult AB, has been active in the field of computing since 1958 with broad international experience in industrial and academic environments. He is Sweden's head of delegation to the ISO/IEC JTC1 SC7 working group that is developing an International Standard on Systems Life Cycle Processes (ISO/IEC 15288) as well as the elected architect of that standard. He is a founding member of the TC on Engineering of Computer Based Systems serving as chairman (1999-2000). He is a Fellow of the IEEE and Fellow of the Association for Computing Machinery and recently was presented with the year 2000 Computer Pioneer Award by the IEEE Computer Society.

James Martin, from The Aerospace Corporation, has been active in the field of systems engineering standards since 1989. He led the working group for development of the ANSI/EIA 632 standard and is currently chairman of the INCOSE standards committee. He started and led the INCOSE requirements management working group and has served on the INCOSE board of directors. He is a Fellow of INCOSE and has published a book by CRC Press called *Systems Engineering Guidebook*. Mr. Martin is currently working on a PhD at George Mason University in the field of Information Technology. His research interests are in the area of how to develop a common language for the engineering development of complex systems.

Workshop Format

Overview presentation of each standard	2 hours (30 min. each)
Mapping between the standards	2 hours
Analysis of conceptual differences	1 hour
Analysis of gaps and other differences	1 hour
Prepare report of findings and recommendations	1 hour

The complete program and hotel information is available at our web site:

<http://www.dcs.napier.ac.uk/~bill/ecbs/index.html>

Registration information for the meeting is provided at:

<https://shockley.computer.org/conferences/ecb01.nsf>

For Further Information

Harold W. Lawson

Lawson Konsult AB

Björnvägen 7

181 33 Lidingö

SWEDEN

Tel. and Fax +46 8 7677831

E-mail bud@lawson.se

James Martin

The Aerospace Corporation

M/S CH1-430

15049 Conference Center Drive

Chantilly, VA 20151 USA

Tel. +1 (703)633-5599

E-mail james.martin@incose.org

“Advancing the State of Art in Systems Engineering”

(April 26, 2001 - 5:30pm to 8:30pm)

**A joint dinner meeting with
The Hampton Roads Area Chapter of INCOSE
In partnership with ASQ, SME, and ASNT**

Affordable Systems Engineering Training



Chapter Officers

President: Steve Waddell
Past President: Dan Fontaine
Secretary: Grant Watson
Treasurer: Roy Hoobler
University Liaison: Dr. Rolle
Membership: George Christian
Programs: Al Motley

Chapter Web Site:

<http://seva.net/~incose/>

Featured Speaker: Dr. John Snoderly

INCOSE 2002 President Elect

Professor: Systems Engineering Management
Defense Systems Management College

April 26, 2001

Hampton Holiday Inn

1815 W Mercury Blvd (I64 Exit 263B)

INCOSE Members \$16 & Guests \$22

MEETING AGENDA

5:30 - 6:30pm **Social**

6:30 - 7:30pm **Dinner**

(Followed by Featured Presentation)

RESERVATIONS REQUIRED:

Please register on the HRA INCOSE Web site

<http://seva.net/~incose/hra-meeting-april01/>

Directions to the Hampton Holiday Inn: I64 to Mercury Blvd (Coliseum) Exit 263B. Entrance to Holiday Inn is on right just after merging onto Mercury Blvd.

For additional information about our Hampton Roads Area Chapter of INCOSE and to view our other Chapter Activities, please visit our website.