



# IEEE *The Open Channel*

Newsletter for the Hampton Roads Section

[http://www.ewh.ieee.org/r3/hampton\\_roads/](http://www.ewh.ieee.org/r3/hampton_roads/)

The Institute of Electrical and Electronics Engineers, Inc.

September 2003

## **Hampton Roads IEEE Meeting**

September 18, 2003

6:00 PM Exec Committee

6:30 PM Social

7:00 PM Tour

### [ROM Thai Restaurant](#)

7512 Granby Street, Norfolk,  
VA 23505  
757.480.7900

Meal Costs:

Members & Guests: \$20.00

Students: \$10.00

## Nanotechnology Research at the Applied Research Center

September 2003

Professor Mool C. Gupta will describe the research work in nanotechnology carried out at the Applied Research Center (ARC) of Old Dominion University. Some of the projects carried out at the center includes in the area of carbon nanotubes and nanoparticles fabrication, characterization and their applications. Carbon nanotubes have very unique properties such as 100x higher strength than steel, very high electrical conductivity (like copper) and good thermal conductivity (like metals). The ARC has also established a National Science Foundation Center for Lasers and Plasmas for Advanced Manufacturing.

Contact Tim Gavin (757) 827-1786 x313 or email ([tim\\_r\\_gavin@ieee.org](mailto:tim_r_gavin@ieee.org)) for information.

Enjoy mild authentic Thai cuisine served family style. Price includes appetizers, drink and gratuity.

### **Directions from the Peninsula:**

- Take I-64 E to I-564/US-460 (Granby) St. exit (Exit 276), towards the Naval Base.
- Turn RIGHT on Granby Street
- Turn LEFT on Little Creek Road
- Turn RIGHT into the shopping center.
- ROM Thai is in the back corner!

### **Directions from the South Side:**

- Take I-64 W to VA-165 (Little Creek Rd) exit, (Exit 276C), towards US-460 W
- Turn LEFT on VA-165 Little Creek Road
- Cross the rail road tracks.
- Turn LEFT into the shopping center at Wards Corner, just before US-460 (Granby St.).
- ROM Thai is in the back corner!

### **Speaker: Mool C. Gupta**

Professor Gupta is currently Director of Old Dominion University's Applied Research Center and Research Professor in the Department of Electrical & Computer Engineering. Previously he worked at the Research Laboratories of Eastman Kodak Company for 17 years as a senior scientist and Group Leader. Before joining Kodak he was Senior Scientist at Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California. His educational experience includes: Senior Research Fellow at California Institute of Technology, Pasadena, Calif. (78-79), Postdoctoral Fellow at Cornell University, Ithaca, New York, (76-78) and Ph.D. in Physics from Washington State University, Pullman, Wash. (1973). His research interest includes Photon Processing of Materials and Thin Films and Microstructures, Sensors. Other professional activities includes: Materials Research Society Short Course Instructor for Optoelectronic Materials, Processes and devices course for over six years, Adjunct Professor, Department of Materials Science and Engineering, Cornell University for over eight years, Conference Chair for 1996 SPIE Conference on Nonlinear Frequency Conversion: Materials, Devices, and Applications, editor-in-chief for CRC handbook on Photonics.

## **Hampton Roads 2003 Officers**

Chair: Dr. William Edmonson  
[wedmonson@ieee.org](mailto:wedmonson@ieee.org)

Vice Chair: Tim Gavin, P.E.  
[tim\\_r\\_gavin@ieee.org](mailto:tim_r_gavin@ieee.org)

Secretary: Dr. Robert Dawes  
[dawes@wedomath.com](mailto:dawes@wedomath.com)

Treasurer: William Clayton  
[w.clayton@ieee.org](mailto:w.clayton@ieee.org)

Newsletter & Membership:  
William LaBelle  
[w.labelle@ieee.org](mailto:w.labelle@ieee.org)

## **Committees**

Professional Development  
Student Activities  
Educational Activities  
Awards

---

## Become a Senior Member

### - Senior Member drive

The senior member drive elevate members from a grade of 'Member' to a grade of 'Senior Member' continues. Of the 500 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/smpprogram.html>.

---

## A passing of a colleague, mentor, and friend ...

With sadness we report the passing of Dan Jackson on August 10, 2003. As reflected in an email to the IEEE Virginia Council from Dave Geer, he was a personal to many others in the IEEE Va. Mountain Section, and Region 3. The same can be said for many in the Hampton Roads section.

In an email from David Green, Region 3 Secretary, he stated "In a note to Reed Thompson (who furnished the information of this note), his daughter said "Thank you for sharing this with the members of IEEE. Dad was very proud of his affiliation and very gratified by the recent award. He told me that he didn't think he did any more than what was his duty.""

The following remembrance was recorded in the Roanoke newspaper.

---

Daniel Wyer Jackson  
Roanoke, Virginia

Daniel Wyer Jackson, 74, died Sunday, August 10, 2003 at his home in Roanoke after a long battle with prostate cancer.

Born June 28, 1929 in Louisville, Kentucky, he received a B.S. in Electrical Engineering from Lehigh University, Pennsylvania in 1950. He served as a first Lieutenant in the U.S. Army in Korea in 1951 to 1953. He achieved the level of Captain in the Army Reserves in 1960. Dan married Doris C. Maier on October 1, 1955 in Gloversville, New York. Dan began his career as a test engineer for General Electric in Lynn, Massachusetts in 1950, and resumed his work at G.E. - after his military service -- as an evaluation engineer in Schenectady, New York. His position brought him to Roanoke with his new wife. He retired as a senior product engineer after 41 years at G.E. in 1991.

Dan was very active in professional activities. Dan was the 1974-75 president of the Roanoke chapter of the National Society for Professional Engineers and received an outstanding service award from the Virginia Society of Professional Engineers in 1976. He was a regional director for the Institute of Electrical and Electronics Engineers (IEEE), provided leadership to 10 committees on engineering education and professional development through the late 1980s and 1990s. He was a member of the Board of Directors of Southcon of the IEEE (1991-95), also acting as convention director (94) and chairman of the Board (1994-95). Dan received many outstanding and meritorious service awards

throughout the years for his contribution to this engineering society, the most recent is the Daniel W. Jackson Service Award, created to honor his exemplary service to IEEE, presented July 26, 2003 to him in his home.

Dan Jackson was an adult leader of the Boy Scouts of America in Schenectady and Roanoke, from 1954 through 1980. In recognition of his contributions the Blue Ridge Council presented him with the Silver Beaver Award in 1979. In addition to his scouting and professional activities, Dan was leader in the Covenant Presbyterian Church, as a deacon and then an elder. Dan was known for his integrity, dedication, generosity and ready sense of humor.

He is survived by his wife, Doris; his children, Daniel B. Jackson and his wife, Bobbi Heath, and their son Alex of Westboro, MA, Barbara J. Ash and her husband, E. Lawrence Ash, Jr., and their daughter Jessica of Dunkirk, MD, and Gordon S. Jackson and his wife, Lan Nguyen, and their daughters Cynthia Mai-Khanh and Kira Tu-Quyen of San Jose, CA; and Dan's brother, David W. Jackson of Auburndale, MA. He was predeceased by his sister Elisabeth Seabury of Mt. Dora, FL, and his brother Dugald C. Jackson III of Schenectady, NY.

Contributions, requested in lieu of flowers, may be made to the Good Samaritan Hospice, 3825 Electric Road SW, suite A, or Covenant Presbyterian Church, 1831 Deyerle Road (both are Roanoke, Virginia 24018), or the American Cancer Society.

---

## IEEE Annual Elections

### *IEEE President Elect, Divisions, Regions, et al.*

Its that time of year when the IEEE membership is asked to elect a new group of representatives for societies, chapters, sections and headquarters. By now most of you will have received the ballots.

The 2003 slate of candidates, positions being sought, and term is listed below. Detailed information on each candidate can be found on the IEEE web site. Unfortunately, there does not appear to be a simple set of links to the list of candidates. The best method I found to the 2003 candidates list is to perform a search for 'election' from the IEEE home page ([www.ieee.org](http://www.ieee.org)) the select the article on 'IEEE Annual Elections'. Those with hyperlink capability can click the following link: [IEEE Annual Elections](#)

[IEEE President-Elect, 2004](#)

[Division I Delegate/Director, 2004-2005](#)

[Division VII Delegate/Director, 2004-2005](#)

[Division IV Delegate-Elect/Director-Elect, 2004](#)

[Division VIII Delegate-Elect/Director-Elect, 2004](#)

[Region 1 Delegate-Elect/Director-Elect, 2004-2005](#)

[Region 3 Delegate-Elect/Director-Elect, 2004-2005](#)

[Region 5 Delegate-Elect/Director-Elect, 2004-2005](#)

[W. Cleon Anderson](#)  
[Michael R. Lightner](#)

Gordon W. Day  
Lewis M. Terman  
[Mohamed E. El-Hawary](#)

John W. Estey  
Stuart A. Long  
Roger W. Sudbury  
[Stephen L. Diamond](#)  
Ronald Waxman

[Charles P. Rubenstein](#)  
[Barry L. Shoop](#)

Donald W. Hill  
George F. McClure  
[Robert W. Leavene, Jr.](#)

[Region 7 Delegate-Elect/Director-Elect, 2004-2005](#)  
[Region 8 Delegate-Elect/Director-Elect, 2004](#)  
[Region 9 Delegate-Elect/Director-Elect, 2004-2005](#)

[Standards Association President-Elect, 2004](#)

Standards Association Board of Governors  
Member-at-Large

[Technical Activities Vice President-Elect, 2004](#)  
[IEEE-USA President-Elect, 2004](#)

[IEEE-USA Member-at-Large, 2004-2005](#)

### *Hampton Roads Section*

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.

---

### IEEE-USA TODAY'S ENGINEER topics:

#### - [Backscatter: Taking a Look Inside Peer Review](#)

To the neophyte, peer review might seem a jungle; to others, it's a familiar hurdle to overcome in the quest to get papers published. How does it work; who's involved; and how will you know whether or not your peers judged your work impartially? ... by Donald Christiansen.

#### - [Prepare for the Future — Generate Wealth](#)

Wealth generates money and is much more than what we think of as physical assets. By focusing on the future instead of the "here and now," companies and professionals can create the wealth necessary to bring in the revenues. Find out how. ... by Harry T. Roman.

Also in TE

[Engineering Degrees Can Be 'Steppingstones' to Other Professions](#)

[Lifelong Learning Is Necessary for Career Success, According to Survey](#)

[H-1B and L-1 Visas Accelerate Offshore Outsourcing Technology Taking a Lead Role in U.S. Security](#)

[Your Engineering Heritage: Magnetic-Core Memory Hits 50-Year Mark](#)

Read the complete articles and other at the Today's Engineer web site (<http://www.todaysengineer.org/>).

[Robert A. Scoll](#)

[Robert A. Hanna](#)

John B. Plant

Duncan C. Baker

[Baldomir Zajc](#)

[Enrique E. Alvarez](#)

Rodolfo F.

MacDonald

Luiz Pilotto

Raymond Hapeman

[Donald N. Heirman](#)

[Profile 1](#)

Laura E. Hitchcock

Steven A. Seeker

[Profile 4](#)

Gerald T. Lane

[Douglas R. Topping](#)

[Profile 5](#)

George W. Arnold

L. Bruce McClung

[Profile 6](#)

Roy W. Alexander

[Paul J. Menchini](#)

Celia L. Desmond

John R. Vig

[Gerard A. Alphonse](#)

[Jean M. Eason](#)

Gary E. Johnson

[C. Lee Stogner](#)

---

## Local Engineering events

### Virginia Engineering Conference

The VEC Committee has been working hard and is finalizing speakers for the conference. There will be three tracks from which to choose - Business, Professional and Technical. Seminars will be held all day on Thursday, Oct. 9 and in the morning on Friday, Oct. 10. You will be able to earn **9 Professional Development Hours (PDH)** and network with business owners, peers and exhibitors. If you are interested in being a sponsor of this year's conference, please contact Ken Stepka, P.E. at [KStepka@clarknexsen.com](mailto:KStepka@clarknexsen.com). A golf tournament at the popular **Kingsmill Resort** will precede the seminars on Wednesday. If you are interested in being a sponsor for the golf tournament, please contact H. D. Campbell, P.E. at [hdcampbell@campbell-paris.com](mailto:hdcampbell@campbell-paris.com). If your company would like to exhibit at the conference, please contact Martin Jansons, P.E. at [Martin@peed-bortz.com](mailto:Martin@peed-bortz.com).

A web site is being created entirely for the conference and we will let you know when it is officially launched. New this year will be your ability to register on-line AND provide payment via a VISA or MasterCard credit card on a secured network.

The **VA Society of Professional Engineers** and the **American Council of Engineering Companies of Virginia** are excited about sponsoring this conference in Williamsburg at the Radisson Fort Magruder Hotel and Conference Center. **Reserve October 8-10, 2003, on your calendar now and plan to attend!**

**Questions? Contact Leigh Dicks, VSPE Executive Director, at [vspe@aol.com](mailto:vspe@aol.com) or 804-730-6883.**

### Local Engineering Events inputs

Are you are organizing or sponsoring a local event of interest to the engineering community? Do you know of one? Let us know! Send your event announcement to me, William LaBelle ([w.labelle@ieee.org](mailto:w.labelle@ieee.org)), for publishing in the next edition(s) of *The Open Channel*. Additionally, your event can be announced, or a link established, on the section web site. The section newsletter reaches about 1000 local IEEE members each month. It is a free resource that you can't ignore.

### Hampton Roads Engineering Society Calendar

The HRESC is a free website and e-mail calendar of engineering society events for the Hampton Roads area. It is open to the public and all societies are invited to advertise their events. List members receive a weekly text-only e-mail calendar of events.

Calendar users can:

View current and past calendars and links to societies at the HRESC website <http://groups.yahoo.com/group/sname>;

Join the list by sending a blank e-mail to [sname-subscribe@yahoogroups.com](mailto:sname-subscribe@yahoogroups.com).

The manager of the HRESC is SNAME. SNAME, or The Society of Naval Architects and Marine Engineers, an internationally recognized nonprofit, technical, professional society of individual members serving the maritime and offshore industries and their suppliers.

---

## Region 3 Websites

R3 Web Site: <http://www.ewh.ieee.org/reg/3/>

ETI Web Site: <http://ie3eti.eng.uab.edu/>

ETI Authorization: [eti-info@eng.uab.edu](mailto:eti-info@eng.uab.edu)