

## Quantum Computing

**Speaker:** Robert Pedigo

Associate, Booz Allen Hamilton  
Suffolk, VA

**Date/Time:** Thursday, March 17, 2005 at 6:30 PM

**Location:** Aberdeen Barn (<http://www.aberdeenbarnvabeach.com/>)  
5805 Northampton Blvd 757.464.1580  
Virginia Beach, VA 23455

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

**Quantum computing** is a relatively new field of computer research that exploits the counterintuitive properties of quantum mechanics to provide an entirely different computing paradigm. Although increasing amounts of research dollars are being spent in this area, best estimates still predict that a commercially viable quantum computer won't be available for another 15-25 years. Despite this view, new technologies exploiting the basic underpinnings of quantum computing are already on the market, including quantum cryptography equipment providing guaranteed secure transmission of sensitive data through fiber optic cable. While these new devices are limited in range, they represent the cutting edge in both computing and cryptographic techniques, and they offer a glimpse into the promise of quantum computing. It remains for researchers to develop the algorithms and architectures that fully exploit the advantages that quantum computing offers.

**Biographical Sketch:** Mr. Robert Pedigo is an Associate with Booz Allen Hamilton. He works as a concept analyst at the US Joint Forces Command, Joint Experimentation Directorate in Suffolk, VA. Working for the Capabilities Department, Bob identifies and researches new technologies, processes, and ideas that enable concepts for future joint warfighting. Bob earned bachelor's and master's degrees in electrical engineering. He was accepted into a PhD program in computer engineering, where he began investigating quantum computing. Bob has published several peer-reviewed articles, including three in IEEE publications. He is a Senior Member of the IEEE and serves as the co-chair for educational activities in the Hampton Roads Section.

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

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

**Directions:** See page 3

### Upcoming Meetings

Mar 17 *Quantum Computing*  
Apr 21 *XMSF (Modeling) – Topeka Steakhouse*  
May 19 *Social*

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

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## From the Chair

### SOLD OUT

Our last meeting sold out. We exceeded the maximum occupancy allowed by the fire department in our meeting room at the Topeka. Never in my wildest dreams would I have imagined that we would have this problem; what a great problem to have. So what have we learned from the experience?

First, in discussing why people have attended the last meeting, the number one motivation was the subject. Computer security is a problem with a number of our members and their associates. They need help. We are in negotiations with our presenter to repeat his presentation on Adware/Spyware and possibly develop some sort of workshop with more detailed technical information and possibly additional presentations. Due to our publication lead time, we will not be able to schedule this until late March or early April. Stay tuned.

We are looking at how we can rearrange the meetings to accommodate larger crowds. Right now we are considering taking dinner orders earlier in the session to make sure we start the presentation on time and can get you out by 9:00. This will be dependent on the size of the crowd and the organization of the restaurant. Those who had to leave before the speaker began, please accept our offer of a free meal at the next presentation. Please claim your complimentary meal when you make your next reservation.

Next, let me make a plug for the IEEE Virtual Community on Computer Security and Privacy (<https://www.ieee.comunities.org/securityandprivacy>). This virtual community provides a forum to discuss computer security and privacy concerns with others in the field. Topics such as Adware, Spyware and what to do about them are tailor made for this community. Try it!

As always, if you have subjects of burning professional interest, please let us know.

Sincerely,  
*Bill Clayton*  
Chair  
Hampton Roads Section  
[w.clayton@ieee.org](mailto:w.clayton@ieee.org)

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## **Directions to Aberdeen Barn:**

### **Directions from Norfolk:**

1. Take I-64 West to Northampton Blvd (exit 282, US 13 North/SR 166).
2. Turn RIGHT into parking lot. (1.1 miles)

### **Directions from Williamsburg:**

1. I-64 East to Northampton Blvd (exit 282, US 13 North/SR 166), Virginia Beach.
  2. Turn RIGHT into parking lot. (1.1 miles)
- 

## **Seeking Sections' Top Pre-College Education**

Nominate that teacher you've admired, best known for their ability to inspire an appreciation for and understanding of mathematics, science and technology and the engineering process in students.

The IEEE Educational Activities Board is currently accepting nominations for the 2005 Pre-College Educator Award. The award is given to teachers that foster students' interest in and encourage students to pursue careers in mathematics, science, technology, and engineering. The deadline for nominations is 30 April 2005. The winning teacher receives \$1,000 US and a brass and walnut plaque.

Each candidate must be nominated by one of the 307 IEEE Sections. To date, IEEE has awarded teachers from sections within Regions 8, 3, 2, and 1.

For further information on the IEEE Pre-College Educator Award or for instructions on how to submit a nomination, go to <http://www.ieee.org/organizations/eab/EABAwards/awardprecollege-2004.htm>.

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## **IEEE Launches Membership Portal**

The IEEE has launched its new membership portal along with a members-only area called myIEEE.

The public site boasts the value and benefits of IEEE membership while showcasing the availability of additional membership opportunities, such as Societies, Affinity Groups and the Standards Association. Links to member-benefit information are consolidated into drop-down menus on the top navigation bar. Also included are a "Featured Benefit" module, member profiles, membership-related announcements and more.

Members who login to the myIEEE area with their IEEE Web account will see personalized information, such as their grade, section affiliation and additional active memberships. A new feature called "Service Advisor" uses a member's technical interest profile to offer recommendations for IEEE membership offerings, conferences and publications. Links to the most commonly-used membership-management functions (joining the IEEE, renewing membership, adding services and changing profile information) are included in a single module for easy access.

The membership portal and myIEEE project was initiated in response to member feedback about the IEEE Web presence, as well as to improve communications about the value of IEEE membership.

The portal is accessible from the Membership menu on the left navigation bar of the main IEEE Web site. The URL is <http://www.ieee.org/myieee>.

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## **Why Doesn't My Resumé Work Anymore? – Deborah Walker, CCMC**

If your last job search prior to 2001, you may be in for a rude awakening. You might be surprised to find that your old resume, which worked well for you before, is no longer attracting employers, headhunters and corporate recruiters. If you wondered, "What am I doing wrong?" it might not be you-it's probably your resume.

There are three reasons your old resume may not be working for you:

- Drastic increase in competition
- Changes in technology
- Changes in your industry

### **1. Drastic increase in competition**

Increased candidate competition is the #1 reason your resume is no longer working.

While current employment outlooks are marginally brighter, competition is still so high that your resume must be able to stand out against a mountain of candidates.

The best way to enhance your competitive standing against other job seekers is through strong accomplishment statements.

Accomplishments are most effective when:

- They illustrate your transferable skills
- They show your contribution to corporate bottom-line objectives
- They are stated quantitatively

If you are confused about how to state your accomplishments effectively, consider hiring a professional resume writer. Correctly written statements will make your accomplishments shine-and you'll be more likely to land those critical interviews.

### **2. Changes in technology**

Is your resume ready for the high-tech world? Probably not, if you are still snail-mailing or faxing your resume to potential employers. Are you willing to take a chance on your resume being tossed, just because you didn't take the time to prepare your resume for an electronic audience?

With dramatic increases in the number of resumes received, many employers have invested in software to manage resumes and candidate responses. It is entirely possible that a computer, not a person, will be the first one to screen your resume. The electronic eye is much more objective than the human eye; it scans only for industry-specific terminology and keywords in qualifications and responsibilities.

Here are some critical questions to ask about your resume:

- Does it contain the right keywords to put you in the "interview" pile?
- Will new resume software be able to read its formatting correctly?
- Will your tables, fonts, and graphics transmit properly in an online resume form-or will they disintegrate into unreadable symbols?

You can give your old resume a real boost by investing in the services of a professional resume writer who understands the pitfalls of our electronic job market. Whether your resume needs a brush-up or a complete rewrite, it's well worth the investment to make sure your name makes it to the top of all candidate lists.

### 3. Changes in your industry

If you are still just tacking your most current job onto the same old resume, then your resume probably contains a lot of old terminology and buzz words. If so, it will make you look outdated-even over the hill. It may also fail to be recognized by software that uses keywords to retrieve the best resumes.

If you're feeling out-of-step with your industry, it may be time for a checkup with a career coach who can help prepare you and your resume to stand up to the challenges of your industry's changing trends.

Bottom line: if your old resume that no isn't winning the attention of employers, then it's time to ask yourself, "***How much is my old resume costing me in wasted time and effort?***"

An investment in professional resume help could mean the difference between months of fruitless effort-and landing the perfect new job. A new, better resume built on strategies that are suited to today's job-search challenges may be just the edge you need to get you noticed and get you hired.

~~~~~  
Deborah Walker, CCMC

Resume Writer ~ Career Coach

To see resume samples and read more job-search tips visit [www.AlphaAdvantage.com](http://www.AlphaAdvantage.com)

Email: [Deb@AlphaAdvantage.com](mailto:Deb@AlphaAdvantage.com)

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## Symposium on Information Security

The Department of Computer Science at North Carolina A&T State University, Greensboro, North Carolina will host a Symposium on Information Security during the afternoon of March 18, 2005. We are looking for knowledgeable people to make a presentation on what they have been doing in the area of computer security. Some potential topics are:

- a.. Information security Policy
- b.. Security for wireless communications
- c.. Information security risk management
- d.. Security controls
- e.. Security guidance
- f.. Information security and information sharing
- g.. Government efforts on critical infrastructure protection
- h.. Intrusion prevention and detection
- i.. or any other information assurance related topics.

For more information contact Kenneth A. Williams, Ph.D., Department Chair & Associate Professor, Computer Science Department at [williams@ncat.edu](mailto:williams@ncat.edu) or (336) 334-7245.

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## Nobel Laureate to Talk on Nanoscience And Nanotechnology

Wednesday, March 16, 2005

10:00 AM to 12 Noon

Ted Constant Convocation Center  
43<sup>rd</sup> St and Hampton Blvd

Old Dominion University

*A public lecture open to all*

***"2010, NanoSpace Odyssey"***

**SIR HARRY KROTO**

**Nobel Laureate Chemistry (1996)**

As Chemistry and Physics at one borderline and Chemistry and Biology at the other begin to become indistinguishable, multidisciplinary research is leading to the fascinating "new" field of Nanoscience and Nanotechnology (N&N - not to be confused with M&M). Ingenious strategies for the creation of molecules with complex exactly-specified structures with function are being developed - basically molecules that do things. In fact N&N may be considered "*Frontier Chemistry of the 21<sup>st</sup> Century*". When the molecule C<sub>60</sub>, and its elongated cousins, the carbon nanotubes, were discovered it suddenly became clear that our understanding of the structural factors and the dynamic behaviour of graphite and other sheet materials was limited - especially at the nanometer scale. In the Sussex N&N Centre ([www.nano.sussex.ac.uk](http://www.nano.sussex.ac.uk)) new experimental vapour and condensed phase approaches, often involving metal cluster catalysis, have led to the production of novel refractory nanostructures. Studies of composites involving these new materials are beginning to exhibit interesting advanced materials behaviour. Fascinating fundamental insights into their formation mechanisms have also been revealed. Possible applications range from civil engineering to electronics promising to transform our economics but if this is to be realised a paradigm shift in synthetic control strategies will be necessary to create really large molecules with accurately defined structures at the atomic level. This presents one of the greatest technical challenges for 21<sup>st</sup> Century Chemists. From a fundamental research strategy viewpoint it is worth noting the fact that the original C<sub>60</sub> discovery experiments were carried out as a consequence of earlier molecular spectroscopy/radioastronomy discoveries relating to material in interstellar space and red giant carbon stars, together with the development major advances in our techniques for studying small refractory clusters.

*For more information about the talk, please contact*

*Professor Amin Dharamsi*

*Department of Electrical and Computer Engineering, ODU*

*adharams@odu.edu*

*757 683 4467*

## Biography

Harold Kroto's parents were born in Germany but had to leave in the late nineteen-thirties, emigrating to the United Kingdom. Harold was born in 1939 in Wisbech, Cambridgeshire, and grew up in Bolton, Lancashire, in the U.K. He obtained his degrees, including the doctorate in Chemistry, at the University of Sheffield where his dissertation research was on high-resolution electronic spectra of free radicals produced by flash photolysis. Sir Harry spent two years working with the group of the legendary Gerhard Herzberg at the National Research Council in Ottawa, Canada. He then went on to spend one year at Bell Laboratories, in the USA. He started his academic career at the University of Sussex (Brighton, U.K.) in 1967, and he became a professor in 1985. In 1991 he was made a Royal Society Research Professor. Dr. Kroto is now at Florida State University in Tallahassee. Professor Kroto's love for teaching drives him to teach, even when his appointments have allowed for full time research endeavors.

Harry Kroto's pioneering work has spawned several other extremely active subfields that have interested a large number of other scientists. His synthetic and spectroscopic work led to the surprising discovery, by radio astronomy, that very long carbon chain molecules, were relatively abundant in interstellar space. In order to explore the possible source of these carbon chains in space, he performed laboratory experiments, which simulated the chemical reactions in the shells of red giant carbon stars. These experiments led to the unexpected discovery of the now famous C<sub>60</sub> Buckminsterfullerene molecule. Work by Dr. Kroto and his research collaborators has resulted in a detailed understanding of this molecule as well as the related elongated "nanotubes". These breakthroughs resulted in the Nobel Prize in Chemistry that Professors Kroto, Curl and Smalley shared in 1996. Harry Kroto's awards, too numerous to list in detail, include: appointments as Tildon Lecturer; designation as Elected Fellow of the Royal Society; the Royal Society Research Fellowship; the International Prize for New Materials; the Italgas Prize for Innovation in Chemistry; the Longstaff Medal; the Hewlett Packard Europhysics Prize; the Moet Hennessy/Louis Vuitton Science Pour l'Art Prize; the Copley Medal of the Royal Society. He was knighted in 1996.

Harry Kroto's vast contributions are not limited to research and university teaching. Even before his Nobel Laureate fame, in 1995, together with BBC producer Patrick Reams, he inaugurated the Vega Science Trust (<http://www.vega.org.uk/>) to create science films of sufficiently high quality for network television broadcast. These films reflect the excitement of scientific discovery. As

importantly, they also convey the intrinsic concepts and principles without which broad fundamental understanding is impossible. The Trust also seeks to preserve mankind's scientific cultural heritage by recording scientists who have not only made outstanding contributions but, further, are superb communicators. The trust has now made some tens of films of Royal Institution Discourses archival programs and interviews. These are invaluable resources that capture some of the greatest human minds' exposition of the wonders of the world in an exciting and highly accessible manner. The Vega Science Trust serves a wide audience ranging from school and university students, teachers, professors and, equally importantly, interested members of the general public.

Structures that are the size of approximately 1 billionth of a meter (a "nanometer") are called "nanostructures". In comparison, the thickness of a human hair (about 100 micrometers) is about a hundred thousand times bigger. Hence, nanostructures are about the size of a few atoms.

**Directions to the Ted Constant  
Convocation Center:**

**From Virginia Beach via the I-264 West:**

From I-264 West, take the East Brambleton Exit. (Exit 11) Brambleton will turn into Hampton Blvd. The Ted Constant Convocation Center will be located on your right, across from Old Dominion University.

**From Interstate 464 North (Chesapeake, VA)**

From I-464 North, take the St. Paul's Exit. Stay on St. Paul's until you reach Brambleton Avenue, then turn left on Brambleton. Brambleton Avenue will turn into Hampton Blvd. The Ted Constant Convocation Center will be located on your right hand side.

**From Interstate 664 East: (Newport News, VA)**

From I-664 East, take Exit 9 onto Route 164 toward Portsmouth. Stay on 164 and follow the signs to the midtown tunnel. (left on Cleveland Street) After the midtown tunnel, bear left following the signs to Hampton Blvd/Old Dominion University. The Constant Center will be located on your left hand side.

**From Interstate 64 East: (Hampton, VA)**

From I-64 E., take Exit 276A. (Granby Street). Bear right at the fork of the exit ramp following the signs to Terminal Blvd/Naval Station. Take the first exit to Terminal Blvd/Hampton Blvd/ODU. At the end of Terminal Blvd, turn left on Hampton Blvd. The Constant Center will be located on your left hand side.

Parking will be available on the top-floor deck of the adjacent garage on 43rd St and Hampton Blvd. Special Events Parking will also be available for school buses.

*Members of the general public, School Students, University Students, Faculty and Staff are all cordially welcome to attend the public talks.*

**A special welcome is also extended to all the Students and Faculty in surrounding universities and community colleges.**

*The Vega Science Trust, a registered charity, was co-founded by Sir Harry and is an invaluable resource to school and university students, teachers, professors and the general public. Visit it at:*

<http://www.vega.org.uk/>

*Other details of Dr. Harry Kroto's work can also be found at: <http://www.nano.sussex.ac.uk/>*

### March 2005 Calendar of Events

| Sunday              | Monday | Tuesday                  | Wednesday                              | Thursday                                           | Friday | Saturday |
|---------------------|--------|--------------------------|----------------------------------------|----------------------------------------------------|--------|----------|
|                     |        | 1                        | 2<br>ECHR                              | 3<br>ODU Tech Tour                                 | 4      | 5        |
| 6                   | 7      | 8<br>PEC                 | 9                                      | 10                                                 | 11     | 12       |
| 13                  | 14     | 15                       | 16<br>2010, NanoSpace<br>Odyssey - ODU | 17<br><i>St. Patrick's Day</i><br><br>IEEE Meeting | 18     | 19       |
| 20                  | 21     | 22                       | 23                                     | 24                                                 | 25     | 26       |
| 27<br><i>Easter</i> | 28     | 29<br>SOLE<br>Conference | 30<br>SOLE<br>Conference               | 31<br>SOLE<br>Conference                           |        |          |

### April 2005 Calendar of Events

| Sunday | Monday | Tuesday             | Wednesday           | Thursday           | Friday | Saturday |
|--------|--------|---------------------|---------------------|--------------------|--------|----------|
|        |        |                     |                     |                    | 1      | 2        |
| 3      | 4      | 5                   | 6<br>ECHR EXCOM     | 7<br>ODU Tech Tour | 8      | 9        |
| 10     | 11     | 12<br>PEC           | 13                  | 14                 | 15     | 16       |
| 17     | 18     | 19                  | 20                  | 21<br>IEEE Meeting | 22     | 23       |
| 24     | 25     | 26<br>ASNE Day 2005 | 27<br>ASNE Day 2005 | 28                 | 29     | 30       |

## May 2005 Calendar of Events

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



### *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.*

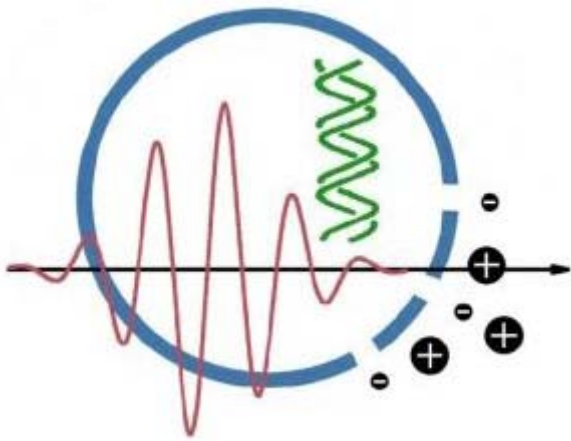
In 2004-2005, the tours have been designed with executives and technical management in mind. The tours are concise, requiring only a half-day time commitment of participants and focus on specific subject matter. There is no cost for attending.

**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\\_techtours.htm](http://www.eng.odu.edu/cc_techtours.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.



## 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](http://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

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# 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).*

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**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  
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