

Fostering technological innovation and excellence for the benefit of humanity.

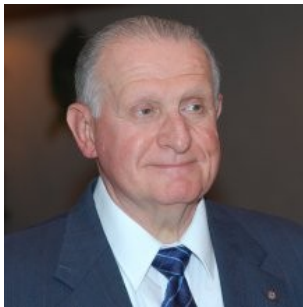
## THE APRIL 2009 IEEE NEW HAMPSHIRE SECTION NEWSLETTER

→ → IEEE-NH.org ← ←

### Chairman's Thoughts

By Jim Anderson

[james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)



#### New URL!

Thanks to Eric Berger, our Vice Chair, we have a new easy to remember URL

**IEEE-NH.org** which automatically redirects you to our website on IEEE's

server. This will also make a lot of the hyper links in the news letter shorter. **Thank you Eric!!!**

### Young Inventors Program

On Saturday April 4th Dean Bacon, Don Sherwood and I had the pleasure to represent the Section at the Young Inventors Program at Merrimack Valley High School in Penacook, NH. There were 115 inventions from 25 schools from as far North as the Pittsburgh School and all the way South to Nashua's The World Schools.

The section presented three special Electrical Awards, \$75, \$50, and \$25 gift certificates to Edmond Scientific.

Of the 115 inventions, 23 contained electrical / electronic aspects. We talked with the inventors, checked their written documentation, and the model or drawing of their invention.

It is always invigorating to witness the enthusiasm and inventiveness of the young people and this year was no exception.

The first place award went to **Evan Becht** and **Ashwin Murali**, seventh grade students from Hampstead Academy. Their invention was called "Wind Revolution". They designed a unique method of harnessing wind to generate electricity. Rather than using a conventional rotating propeller driving a turbine, their approach uses a nearly linear moving magnet to induce current in a coil. The magnet was attached to the middle of a taut ribbon. Two coils were placed above and below the magnet. The ribbon vibrated when the wind speed exceeded a set velocity. The velocity depends on the properties of the ribbon and the weight of the magnet. The moving magnet extended in to and out of the coils to provide the required changing magnetic field needed to induce a current.

The second place award went to **Adam Young**, a fourth grade student from the Pittsburg School. His invention was a "Remote Controlled Weed Wacker". He designed this for the use of handicapped people. He had a fully operational version at the competition.

The third place award went to **Kyle Walker**, a fifth grade student at The World Schools in Nashua. His invention was a "Pet Water Alarm" that sounded an alarm when the water was getting low in the pets bowl.

For pictures of the winners and their inventions see: <http://IEEE-NH.org/Docs/2009-04-YI.pdf>

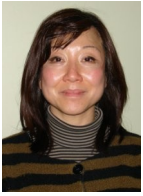
### Wanted - Humanitarian Technology Challenge Liaison

The IEEE is partnering with the United Nations Foundation and the Vodafone Foundation Technology Partnership to develop and implement technological responses to selected humanitarian challenges in developing countries. IEEE Headquarters is requesting each section to recruit an HTC Coordinator. Please consider volunteering to lead this new initiative in NH. For more information on HTC go to: <http://www.ieee.org/web/volunteers/tab/htc/index.html>

#### Feedback

Contact me if you have any comments about, or suggestions for, the newsletter or the Section.

## Meet the Ex Com



It is my great pleasure to introduce the newest member of the Ex Com, **Mimi Tam**, who volunteered to start up our Corporate Liaison Committee. She is working diligently to drum up support from the other sections in the

Northeastern Area to put on an Industry Day.

**Welcome Mimi!** See her excellent bio at:

<http://IEEE-NH.org/Docs/2009-04-MT.pdf>

## New Senior Member



It is with great pleasure that Jason Hui announces the elevation of **Nathaniel McCaffrey** to Senior Member.

**Congratulations Nathan!** See his bio at:

<http://IEEE-NH.org/Docs/2009-04-NM.pdf>

## Member Promoted



**Kari Karwedsky** has been selected as the Executive Specialist / Chief of Staff for the BAE Electronics, Intelligence and Support operating group in Rosslyn, VA. Kari is the WIE Treasurer and was the section's

Outstanding Young Engineer of the Year in 2005.

**Congratulations Kari!** For more details see:

<http://IEEE-NH.org/Docs/2009-04-KK.pdf>

## Summer Outing



Don Sherwood asks us to save the date - Saturday, July 25 at 6 PM for a barbecue dinner and an evening at the newly expanded McAuliffe Shepard Discovery Center in Concord.

For more details see Don's article at:

<http://IEEE-NH.org/Docs/2009-04-SO.pdf>

## Local IEEE Meetings

### Computer Society Chapter



Jim Isaak reminds us about the Tues. April 14th "Futures Job Fair", 5 to 9 PM, at

Southern NH University in Manchester.

See the detailed announcement at: <http://IEEE-NH.org/Docs/2009-04-CS2.pdf>

Bob Eldridge announces a meeting on Th. Apr. 23rd from 5:30 to 8:00 PM. The topic is **GOING GREEN with Virtualization**. It will also be at Southern New Hampshire University. For details and **reservation s** see:

<http://IEEE-NH.org/Docs/2009-04-CS1.pdf>

**Please support us by posting the notice at work or school.**

### Joint Com-Sig Society Chapter



On April 28th at 5:30 PM we will co-host a meeting with the Computer Society Chapter. David Martinez, Head of ISR Systems and Technology Division at MIT Lincoln Labs will discuss **advances in high-performance embedded computing**. The meeting is at the Nashua Public Library. See the detailed announcement at: <http://IEEE-NH.org/Docs/2009-03-JCS.pdf>

On May 26th we are tentatively planning to host a talk on wireless communication. We'd like to hear your suggestions for meeting topics and speakers. For more information and to **RSVP for the meetings** contact [kenric.nelson@ieee.org](mailto:kenric.nelson@ieee.org) or [ravi.subrahmanyam@ieee.org](mailto:ravi.subrahmanyam@ieee.org).



Madeleine Lowe reminds us about the **first** meeting on **Presentation Skills**. It will be presented by **Nita Patel** on

Mon. April 20th at 5:30 PM at the Great Buffet in Manchester. For more details and **reservations** see: <http://IEEE-NH.org/Docs/2009-04-P1.pdf>.

**Please support us by posting the notice at work or school.**

Madeleine Lowe announces a meeting with the **Toastmasters of Plymouth** on Wed. May 20th at 5:30 PM at the Common Man in Plymouth. For more details and **reservations** see:

<http://IEEE-NH.org/Docs/2009-04-P2.pdf>.

**Please support us by posting the notice at work or school.**

Madeleine Lowe announces a **Wine Tasting and Networking Event** on Sat. June 6th at 5:30 PM at the Vintner's Cellar, Sebbins Brook Marketplace, 410 South River Road, Suite 7, Bedford. For more details and **reservations** see:

<http://IEEE-NH.org/Docs/2009-04-P3.pdf>

**Please support us by posting the notice at work or school.**

### Joint Reliability Society Chapter



Ramon Dela Cruz announces a talk on Apr. 15th, on **Super-Linear Increase in Soft Error Rate from Doubling the Cache**

**Size: Bug or Phenomenon?** by **Dr. Shubu Mukherjee**, IEEE-Fellow, Principal Engineer, Intel Corp., at EMC Corporation, 176 South St., Hopkinton, MA. **Register by Monday, April 13th** at: <http://www.ieee.org/bostonrel>. See details at: <http://IEEE-NH.org/Docs/2009-04-RS.pdf>

**Please support us by posting the notice at work or school.**



## Joint WIE-GOLD Group

GOLD Groups are participating in "GOLD around the World" to celebrate IEEE's 125th Anniversary. Each group is encouraged to submit a ten second video clip. Go to: <http://www.goldaroundtheworld.com/> to see the ever growing video and to learn how to participate.



The theme of the October 8th New Hampshire Joint Engineering Societies Conference is **Investing In Infrastructure**. Section members Eric Burger and Thelma Brown will be giving presentations. The

tentative program is at:

<http://IEEE-NH.org/Docs/2009-04-NHJES.pdf>

Please support us by posting the notice at work or school.

## Other Contact Information

### Life Members Group

By Jim Anderson



We will be scheduling meetings in the Spring. If you have any suggestions for meeting topics, speakers, or other

activities; or if you would like to become active in the Group please contact me at:

[james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)



## Microwave Theory and Techniques Society

By Don Sherwood

If you have any suggestions for meeting topics, speakers, or other activities; or if you would like to become active in the Chapter please contact me at: [donsherwood@ieee.org](mailto:donsherwood@ieee.org)



## Power & Energy Society Chapter

By Dean Bacon

If you have any suggestions for meeting topics, speakers, or other activities; or if you would like to become active in the Chapter please contact me at: [nhgump@gsinet.net](mailto:nhgump@gsinet.net)

## Pre-University Activities



Don Sherwood reminds us that UNH needs volunteers to help with their Tech Camp. Week 1 is July 20-24 and Week 2 is July 27-30. Contact Michele Munson at 731-1087 or [michelemun@comcast.net](mailto:michelemun@comcast.net) if you are

interested in volunteering or for information on registering a student. Tell them IEEE sent you!

## InvenTeam HS Invention Grants



InvenTeams are teams of high school students, teachers, and mentors that receive **grants up to \$10,000** each to invent technological solutions to real-world problems. Each InvenTeam chooses its own problem to solve. The Initial **Application Deadline** is April 24. For more info go to: <http://IEEE-NH.org/Docs/2009-02-PU7.pdf>.

## Student Activities



## Joint WIE-GOLD Group

The group is hosting a student **Graduation Luncheon** at Libby's Bar & Grill in Durham, NH at 12pm on April 26th for graduating student IEEE members. For more details and **reservations** go to: <http://IEEE-NH.org/Docs/2009-04-WG.pdf>.

Please support us by posting the notice at work or school.

## Other Articles

### What Is Your Temperament?



If asked, you would say that everyone is unique. Nevertheless, several researchers have classified individuals into four basic temperaments. What is your temperament? To find the answer see Nita Patel's article at:

<http://IEEE-NH.org/Docs/2009-04-T.pdf>.

### Membership Activities



Jason Hui welcomes 17 new members, seven members that have recently moved into the Section and a new student member; describes myIEEE; available resources for unemployed IEEE members; and reminds us about life membership and the process for becoming a Senior Member. His article can be found at:

<http://IEEE-NH.org/Docs/2009-04-MA.pdf>



## 125th Anniversary Sweepstakes

In honor of IEEE's 125 years of engineering the future, on 13 May (the founding date), IEEE is giving \$100 Visa Gift Cards to 125 renewing members. **Make sure you have renewed your membership so that you are eligible for the drawing.**

## Member Get a Member Incentives

IEEE announced that 20 members earned \$210 or more in the 2008 program by sharing their IEEE experience with their friends and colleagues. For details about the 2009 program go to:  
[http://www.ieee.org/web/volunteers/membership\\_dev/mgm.html](http://www.ieee.org/web/volunteers/membership_dev/mgm.html)

## Wanted, Additional Photographers

Ravi Subrahmanyam is our photographer but his schedule will not allow him to cover all our events. Therefore, we need one or more additional volunteers. If you are interested to help out, please email the Editor, Jim Anderson, at: [james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)



A free seminar for small business owners is being held on Thursday, April 30th, from 8:00 a.m. to 1.00 p.m., at The Grappone Conference Center in Concord. For details and **reservations** go to:  
<http://IEEE-NH.org/Docs/2009-04-S.pdf>.

## Brain Teaser Challenge



Butch gives us the answer to March's question about the voltage change observed on the microphone element. This month he asks us a question about gravity.

See Butch's column at:  
<http://IEEE-NH.org/Docs/2009-04-BTC.pdf>.

## What's Up in the Boston Section?



Below are links to the events hosted by the Boston Section. They are

listing their March events at:  
[http://www.ieeeboston.org/calendar\\_articles.htm](http://www.ieeeboston.org/calendar_articles.htm)  
their April events at:  
[http://www.ieeeboston.org/calendar\\_articles.htm#second\\_month](http://www.ieeeboston.org/calendar_articles.htm#second_month), their future conferences and special events at:  
<http://www.ieeeboston.org/conferences.htm>  
and their courses at: <http://www.ieeeboston.org>

## Other Meetings of Interest

Please let me know if you are aware of other meetings that might be of interest to our members. We each belong to different societies, read different publications, work in different industries, and surf different web sites. So if you see any interesting meetings or conferences please send the notice or the URL to:  
[james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)

To keep the list manageable I have limited it to meetings in North America during the next six months. To see the list go to:  
<http://IEEE-NH.org/Docs/2009-04-OM.pdf>

## Wanted, Articles on "How I became interested in engineering."

Was it because you were always interested in taking things apart and putting them back together (with "extra pieces")? Was it by chance? Was it because you come from generations of engineers and this was your destiny? What was it? Please send me [james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org) your story.

To be removed from the section's e-mail list contact the Editor: [james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)

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