

IEEE is the world's largest professional association advancing innovation and technological excellence for the benefit of humanity.

## THE MAY 2010 IEEE NEW HAMPSHIRE SECTION NEWSLETTER

IEEE-NH.ORG

### Chairman's Column

Don Sherwood

[donsherwood@ieee.org](mailto:donsherwood@ieee.org)



I'm not a big fan of "bumper sticker" phrases, but a recent ad in the MTT-S Transactions gives a succinct summary of why

many of our NH members joined the IEEE; "Connecting Professionals, Advancing Technology". It is interesting to note that the top two reasons for membership cited in the recent Section survey are; To remain technically current (70%) and To obtain IEEE publications (60%). These two topped all other reasons by about a 2:1 margin and support the importance our members place

in joining IEEE as a tool for professional development.

Relative to this theme, the NH Section is partnering with the Boston and Maine Sections to sponsor an Industry Day event. This is a one day meeting designed to foster collaboration between industry and the IEEE. It is tentatively scheduled for September 23rd and I'm pleased to announce that it will be held in the new **Portsmouth Harbor Events & Conference Center**. This facility is centrally located and attractive for both business and possible social activities. The NH venue provides our members a unique opportunity to develop beneficial relationships at both a professional and corporate level. Details will be available as the planning solidifies.



**Portsmouth Harbor Events & Conference Center**

### Feedback

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

## Meet Four of Our Senior Members

We have just been notified that five section members have been elevated to IEEE Senior Member status. We are fortunate to have pictures and short bios of four of them. If you know them be sure you congratulate them on this significant accomplishment.



Rajeev Agarwal



Jim Nash



Colin A. Sanford



Andy Sifferman

To see their short biographies, please go to:  
<http://IEEE-NH.org/Docs/2010-05-SR.pdf>

## Managing Your Career

We are trying to provide information that can be of help to graduates just starting out, seasoned professionals, and everybody in between.

## Resume Q and A



This month **Leslie Gabriele** discusses a number of aspects of preparing a resume that sells you to the specific job that you are applying for. She also provides a list of 126 words that imply success. See her article at:  
<http://IEEE-NH.org/Docs/2010-05-LG.pdf>



If you are thinking about starting your own business checkout the courses and meetings at:  
<http://abi-nh.com/>



**Core Values** What are your core values? What is it that guides your behavior? Nita Patel shares IEEE's core values in this article: <http://IEEE-NH.org/Docs/2010-05-NP1.pdf>

**Success Built to Last** Nita highlights three key points from Jerry Porras' *Success Built to Last: Creating a Life That Matters*. Please see: <http://IEEE-NH.org/Docs/2010-05-NP2.pdf>

## Milken Institute Global Conference Shaping the Future



There were 560 speakers on 140 panels trying to solve some of our most difficult challenges. There is something for everyone, whether your interests are in education, energy, the environment, finance, global regions, government, health, industries, media or philanthropy. If you missed this event there were recordings of all public sessions which can be seen at: [www.milkeninstitute.org](http://www.milkeninstitute.org)



**The Best of Today's Engineer: On Career Survival** is available free to unemployed

IEEE members. The publication provides tips and guidance to those who need help searching for a new job, getting in the front door, maintaining their competitiveness and managing their finances while they search. For more details see: <http://IEEE-NH.org/Docs/2010-05-MC1.pdf>

IEEE-USA issued a recent report on our employment situation and referenced information for unemployed members. For more details see: <http://IEEE-NH.org/Docs/2010-05-MC2.pdf>



They have had two recent articles of possible interest. **28 Hot Tech Skills That Will Bump Up Your Salary** at: <http://www.eweek.com/c/a/IT-Management/20-Hot-Tech-Skills-That-Will-Bump-Up-Your-Salary-in-2010-673728/?kc=EWKNLCSM04272010STR1> and **21 IT Certifications That Keep Tech Workers in Demand** at: <http://www.eweek.com/c/a/IT-Management/21-Tech-Certifications-That-Keep-IT-Workers-in-Demand-154951/?kc=EWKNLCSM04202010STR1>

## Sales Aerobics for Engineers

Are you still an engineer if you don't use techno speak? This blog has an article on the need to use plain English. Checkout this and other articles at: <http://blog.salesaerobicsforengineers.com/2010/04/are-you-still-an-engineer-if-you-dont-use-techno-speak.html>

## Other Resources

If you are aware of other resources contact: [james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)

## Local IEEE Meetings Etc.

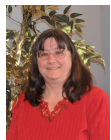
The following meetings offer technical information and, no matter what your field, they are good networking opportunities.

## Joint Com-Sig Societies Chapter



The Chapter meets on the fourth Tuesday of the month in the Hunt Room of the Nashua Public Library at 6:30 PM. **Mike Lerer** reminds us that on 5/25 **Ajay Kachrani**, Director of Software Engineering at Vanu Networks will discuss **Software Defined Radio**.

## Consultants' Network



The meetings are held at 6 PM in the Amoskeag Business Incubator conference room at 33 S. Commercial St., Manchester. Visit [abi-nh.com](http://abi-nh.com) for more information. **Register** on the Cnet website: [www.consultantsnh.org](http://www.consultantsnh.org)

**Madeleine Lowe** reminds us that on May 6th **Joseph Rothweiler** will discuss **An FPGA-Based Data Acquisition System**. For more details see: <http://IEEE-NH.org/Docs/2010-05-CN1.pdf>

**Please post the above notice at work or school.**

Madeline announces that on June 3rd **John M. Cunningham** will discuss **Considerations and Issues in Consulting Agreements**. For details see: <http://IEEE-NH.org/Docs/2010-05-CN2.pdf>

**Please post the above notice at work or school.**

Madeline announces that on July 1st **Ray Barrett** will discuss **Continuing Education Credits for PE's**. More details will follow.

## Membership Activities



**Jason Hui** congratulates 5 new senior members, and welcomes 11 new members, 1 associate member and 4 student members to the Section. He reminds us about elevation from

Associate Member to Member grade, and the process and benefits for becoming a Senior Member. Please see his article is at:

<http://IEEE-NH.org/Docs/2010-05-MD.pdf>

## NHJES Fourth Annual Conference



The conference will be held on Thurs. Oct. 7 from 8:00 AM to 4:15 PM at The Executive Court Banquet Facility at The Yard. The theme is "Forensics in Engineering – CSI of Our Profession. For the tentative program please go to:

<http://IEEE-NH.org/Docs/2010-04-JES.pdf>

**Please post the above notice at work or school.**



**Madeleine Lowe** announces the Sun. May 16 **Wine Tasting** and Networking event at 5 PM at Vintner's Cellar, Sebbins Brook Marketplace, 410 South River Road, Suite 7, Bedford, NH. See: <http://IEEE-NH.org/Docs/2010-05-PAC1.pdf>

**Please post the above notice at work or school.**

She also reports on the successful Presentation Skills seminar at UNH Durham Campus on 4/27. Please see her report at: <http://IEEE-NH.org/Docs/2010-05-PAC2.pdf>



**Ramon De la Cruz** reminds us about the Wed. May 12 meeting. **Keith W. Donaldson**, President of Engineered Materials, Inc. will discuss **"How carbon foot-prints, green initiatives and reliability work together, or against each other."** The meeting will be at RSA, in Bedford, MA at 5:30 PM. **Please register by Friday May 7 at:**

<http://ewh.ieee.org/r1/boston/r1/events.html>

For more details see:

<http://IEEE-NH.org/Docs/2010-04-RS1.pdf>

**Please post the above notice at work or school.**

Ramon announces the Wed. June 9 meeting. **Lou Gullo**, Sr. Principal Systems Engineer, Raytheon - IDS SCC, will discuss **IEEE Reliability Society Standards Status and Descriptions**. The meeting will be at EMC, in Hopkinton, MA at 5:30 PM.

**Please register by Friday June 4 at:**

<http://ewh.ieee.org/r1/boston/r1/events.html>

For more details see:

<http://IEEE-NH.org/Docs/2010-05-RS1.pdf>

**Please post the above notice at work or school.**

Ramon reports that the April meeting was well attended by 15 members and 7 guests. David Heimann's presentation can be seen at: <http://IEEE-NH.org/Docs/2010-05-RS2.pdf> and the article that the talk was based on is at: <http://IEEE-NH.org/Docs/2010-05-RS3.pdf>



**Joint WIE-Gold Group**

**Greg Hovagim** invites us to join him at the **Extra Innings Batting Cage**, 9 Congress St., Nashua on



Friday May 14 at 6 PM. IEEE members get in free, it's \$5 for non-members. **Register at:** [http://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/2289](http://meetings.vtools.ieee.org/meeting_view/list_meeting/2289) by **Wednesday May 12**. For details see: <http://IEEE-NH.org/Docs/2010-05-WG1.pdf>

Please post the notice at work or school.

Sayed Mizan reminds us about the **Annual Hiking Trip to Mt. Cardigan** on Saturday June 26, at 10:30 AM. **Register before Thursday June 24 at:** [http://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/2050](http://meetings.vtools.ieee.org/meeting_view/list_meeting/2050). For more details please see: <http://IEEE-NH.org/Docs/2010-04-WG1.pdf>

Please post the notice at work or school.

## Other Contact Information

### Computer Society Chapter



If you have any suggestions for meeting topics, speakers, or other activities; or if you would

like to become active in the Chapter contact **Barbara Bancroft** at: [bbancroft@ccsnh.edu](mailto:bbancroft@ccsnh.edu) For a list of meetings for this academic year see: <http://IEEE-NH.org/Docs/2009-01-CSL.pdf>

### Engineering in Medicine and Biology Society Chapter



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 **Wayne Smith**: [wjsmith@cisunix.unh.edu](mailto:wjsmith@cisunix.unh.edu)

### Life Members Group



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 **Tom Perkins** at: [tomperkins@ieee.org](mailto:tomperkins@ieee.org)



### Microwave Theory and Techniques Chapter

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 **Don Sherwood** at: [donsherwood@ieee.org](mailto:donsherwood@ieee.org)

### Power & Energy Society Chapter



If you have any suggestions or if you would like to become active in the Chapter please contact **Paul Krell** at: [p.krell@ieee.org](mailto:p.krell@ieee.org)

## Pre-University Activities

### Young Inventors' Program

**Don Sherwood** reports on the winners of the competition held on April 3rd at the Merrimack Valley High School in Penacook. The creativity of these young people is amazing. See the report at: <http://IEEE-NH.org/Docs/2010-05-PU1.pdf>



### Explorer Post #200

**Brian Roberts** invites us to the year end awards banquet at BAE Systems Nashua HQ at 65 Spit Brook Rd. on Monday May 24 at 6:00 PM. **You must be a US**

**citizen and register by Monday May 17 at:** [http://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/2293](http://meetings.vtools.ieee.org/meeting_view/list_meeting/2293) For all the details see: <http://IEEE-NH.org/Docs/2010-05-PU2.pdf>

Please post the notice at work or school.

**National Lab Day**, in the first week of May, is more than just a day. It is a nationwide initiative to build local communities of support (hubs) that will foster ongoing collaborations among volunteers (university students, scientists, engineers, and other STEM professionals), students and educators. For more information go to: <http://www.nationallabday.org>

### UNH Durham Summer Events



There are three programs. The **UNH Tech Camp** is a 2 week coed experience, July 19-30, for students entering grades 7 through 10.

**UNH Engineeristas: Girls & Engineering** is a 1 week experience, July 12-16, for girls only entering grades 6 and 7. For more information on them please go to: <http://IEEE-NH.org/Docs/2010-03-PU2.pdf>

The **UNH-IOL High School Summer Internship Program** at the UNH InterOperability Lab recruits the brightest and most ambitious high school juniors for **paid internships** at their state-of-the-art networking facility. For details please go to: <http://www.iol.unh.edu/education/employment/internship.php>



The camp offers eight week long camps at local schools in NH for grades one through six. Seven are from June 28- July 2 and one is from July 12-16. For details please go to:

<http://www.invent.org/camp/default.aspx>

## Student Activities



### Dartmouth Student Chapter

On 4/23 the chapter participated in the Thayer Open House and on 4/30 they met with the WIE-GOLD Group for lunch.

On 5/2 they will meet with the IEEE University Partnership Program Manager and then they will participate in the Formula Hybrid event below. For details see **Saryah Azmat's** report at: <http://IEEE-NH.org/Docs/2010-05-DSC.pdf>



The Thayer School of Engineering's Formula Hybrid Race will be on May 3–6, at the NH Motor Speedway, in Loudon, NH. Thirty teams from the United States, Canada, Russia, Italy and Taiwan are registered to compete. For more details see: <http://IEEE-NH.org/Docs/2010-03-FH.pdf>

## URC The UNH Undergraduate Research Conference

The URC continues on May 7 & 12. For details go to: <http://www.unh.edu/urc/events.html>

## Other Articles

### IEEE NH Life Senior Member



Bob Landman recently presented the paper "A History of Underground Secondary AC Networks" at the IEEE T&D Conference/Expo on Underground Secondary Network Systems in New Orleans. See Bob's complete article at: <http://IEEE-NH.org/Docs/2010-05-BL.pdf>

### IEEE President-Elect Candidates

There are two very qualified candidates, one of whom will be President of IEEE in 2012. Please read the attached fliers very carefully as they will set the direction that the IEEE will take in 2012. The ballots will be mailed on or before 1 August.



Joe Lillie's literature is at: <http://IEEE-NH.org/Docs/2010-04-JL.pdf> See Joe's website at: <http://ieee.joelillie.com/>



Gordon Day's literature is at: <http://IEEE-NH.org/Docs/2010-04-GD.pdf> See Gordon's website at: <http://www.gwday.net/>



## UNIVERSITY of NEW HAMPSHIRE

### Professional Development & Training

UNH is holding a conference, **Competing in the Green Marketplace: Life Cycle Assessment — What It Is, Why It's Important, How to Do It**, on Fri. 5/21 from 8:30 AM – 4:00 PM, at the Sheraton Harborside Hotel, Portsmouth, NH. **Early bird registration ends 5/3.** For details see: <http://IEEE-NH.org/Docs/2010-04-PD.pdf>

### STEM in the States



Nita Patel, reviews a report entitled **STEM in the States** published by the Commission on Professionals in Science and Technology provides detailed information on important indicators of STEM education and work forces in each state in a comparative analysis. See Nita's article at: <http://IEEE-NH.org/Docs/2010-05-NP3.pdf>

### Brain Teaser Challenge



Butch Shadwell still appears to be running behind schedule so we will have to wait until next month for his answer to the question about the bulk resistivity of soil and to see his next challenge.



Challenges It appears that the challenges may have been discontinued. Check back next month after

I have had a chance to research this.

## What's Up in the Boston Section?



Below are links to the events hosted by the Boston Section. They are listing their May events at:

[http://www.ieeeboston.org/calendar/cal\\_monthly\\_articles/may10.html](http://www.ieeeboston.org/calendar/cal_monthly_articles/may10.html)

and their courses, conferences, and special events at: <http://www.ieeeboston.org>

## Wanted, Additional Photographers

Ron Lai volunteered to assist Ravi Subrahmanyam in taking pictures at our events. However, they both have heavy travel schedules. We still need one or more additional volunteers. If you are interested to help out, please email the Editor at: [james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org).

## 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 your story at: [james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)

## To be removed from the Section's e-mail list

Please contact the Editor at: [james-w-anderson@ieee.org](mailto:james-w-anderson@ieee.org)

**Nondiscrimination Policy:**

IEEE prohibits discrimination, harassment and bullying. For more information visit:

<http://www.ieee.org/web/aboutus/whatis/policies/p9-26.html>.

**Disclaimer:** The opinions expressed, as well as the technical accuracy of authors published in this newsletter, are the responsibility of the individual authors. Therefore, no endorsement by the IEEE, its officers, or its members is made or implied.

**Copyright** © 2010 IEEE NH Section.