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THE APRIL 2010 IEEE NEW HAMPSHIRE SECTION NEWSLETTER

IEEE-NH.ORG

Chairman's Column

Don Sherwood
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Section Survey

Wow! Twenty percent of our membership replied to the recent survey. That's a remarkable return by any standards. Thanks to all who took the time and interest to return the on-line forms.

IEEE Headquarters compiled your answers in a series of informative summary graphs at: <http://IEEE-NH.org/Docs/2010-04-DS1.pdf> It is fortunate that one of the survey questions asked if our members visited our website. Over fifty percent indicated they did, so this appears to be a great tool to get information out.

The survey provided much useful information to process. Over the next few months the Ex Com will review and analyze the results. These will be used to help plan future events and activities that align more closely with members' inputs. Rather than provide a commentary on the numerous questions, I urge you to take a look at the summary to see how your fellow members responded. I think you will find it interesting.

Congressional Visit Day

Several years ago the section was approached to sponsor several "Meet the Candidate" events during the presidential primary season. These would have been an opportunity for the NH engineering community to convey to the candidates their concerns on technical issues facing the nation. Due to candidate scheduling issues, the meetings never materialized and the opportunity was lost.

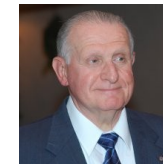
Thanks to the initiative of **Brian Roberts**, the section has another opportunity to influence our legislators on technical issues. IEEE-USA sponsors an annual Science, Engineering and Technology Congressional Visit Day. During this year's two day event, April 28 - 29, IEEE members will have an opportunity to raise awareness of the long-term importance of science, engineering and technology to the nation through face-to-face meetings with Members of Congress, congressional staff, key Administration officials and other decision-makers. The Section approved funds for the first time to send a representative to Washington to participate in this important event. I'm very pleased to announce that **Barbara Bancroft** was recently selected from an outstanding field of applicants to represent the NH Section. Congratulations Barbara!

Feedback

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

From the Editor

Jim Anderson
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What's in a Name?

You may have noticed lately that IEEE is modifying its name. We no longer spell it out. We just use IEEE and catchy phrases to better explain what we do and who we represent. For example, see the tag line under the the logos above.



On the lighter side, I received this cartoon from **Jennifer Schelly**. The caption is: A Typical Meeting of the Institute of Eccentric and Erratic Energetic and Energized Electrical and Electronic Engineers.

Can you top that?

How I Became Interested in Engineering



Bob Robins shares his interesting story with us. The Cub Scouts steered him towards electricity but the Boy Scouts steered him to music. Before college he had experience as a paid electrician and a union musician. For details see:

<http://IEEE-NH.org/Docs/2010-04-BR.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.

Questions and Answers With

Leslie Gabriele



This month Leslie discusses the all too common Telephone Interview and gives us tips on how to have a successful interview. To read her very helpful article please go to:

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

Business Card Resume!



Steven Oppenheimer has an interesting idea on how to distribute abbreviated resume information on your business card. See his article at:

<http://IEEE-NH.org/Docs/2010-04-BC1.pdf>



Graduates Of the Last Decade

is sponsoring a two part webinar series on conflict management . Part 2 will be on Wed. 4/21 from 2:00 to 3:00 PM. It is free to IEEE members. Visit the [registration page](#) to learn more.



On Wed. Apr. 14 at 4PM there will be a resume writing Webinar in the NPL theater.

Other Resources

If you are aware of other resources contact: 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.



Barbara Bancroft announces the Tuesday 4/13 **Job Skills Symposium** to be held

at 7 PM at SNHU, Frost Hall, Walker Auditorium in Manchester. For a list of the presenters and more details please go to:

<http://IEEE-NH.org/Docs/2010-04-CS1.pdf>

Please post the notice at work or school.

Barbara reports on the Mar. 9 panel discussion on "Starting Your Business: What Should You Know About IT Security?" Please go to: <http://IEEE-NH.org/Docs/2010-04-CS2.pdf>

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** announces that on 4/27 **Tony Martin** of SCA Technica Inc. will discuss a **Platform Independent Model and Threat Validation Analysis for Mobile Ad Hoc Networks**.

On 5/25 **Ajay Kachrani**, Director of Software Engineering at Vanu Networks will discuss **Software Defined Radio**.

Mike reports that on 3/23 **John Zavgren**, a Network Architect at Infinetics, spoke on **Ad Hoc Network Design and Analysis**.

Consultants' Network



Madeleine Lowe reports on their March meeting, announces their April 1st meeting where she will discuss **What IEEE has to Offer Consultants** and their May 6th meeting at 6 PM where **Joseph**

Rothweiler will discuss **An FPGA-Based Data Acquisition System**. Keep an eye on the website for the location. For all the available information see her article at:

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



Engineering in Medicine and Biology

There is a series of Biomedical Optics workshops continuing on Tuesdays Apr. 6 and 13 at BU's Photonics Center from 7 - 9:30 PM. For details see:

<http://IEEE-NH.org/Docs/2010-03-EMB.pdf>.

Please post the notice at work or school.



Humanitarian Technology Challenge

Luis Figarella provides us with the minutes of the Mar. 8th web conference and the program for the Community Center Electricity Model For Haiti. See his report at:

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

Membership Activities



Jason Hui welcomes 14 new members and 18 student members as well as 7 members who have recently transferred into the Section. He reminds us about elevation from Associate Member to Member grade, and the process and benefits for becoming a Senior Member. His article is at: <http://IEEE-NH.org/Docs/2010-04-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>



Madeleine Lowe announces the tentative meeting schedule through next October. See: <http://IEEE-NH.org/Docs/2010-04-PAC1.pdf> She also reports on her attendance at the **IEEE-USA Annual Meeting**. Please see her report at: <http://IEEE-NH.org/Docs/2010-04-PAC2.pdf>



Ramon De la Cruz reminds us about the Wed. Apr. 14 meeting. **David I. Heimann, PhD** will talk about **A Bipartite Empirically Oriented Metrics Process for Agile Software Development**. The meeting will be at RSA in Bedford, MA at 5:30 PM. **Please register by Fri. Apr. 9th. at:** <http://ewh.ieee.org/r1/boston/rl/events.html> For more details see: <http://IEEE-NH.org/Docs/2010-03-RS1.pdf>

Please post the notice at work or school.

Ramon announces the Wed. May 12 meeting. **Keith W. Donaldson**, President of Engineered Materials, Inc. will discuss **"How carbon footprints, 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 Fri. May 14th. at:** <http://ewh.ieee.org/r1/boston/rl/events.html> For more details see: <http://IEEE-NH.org/Docs/2010-04-RS1.pdf>

Please post the foregoing notice at work or school.

Ramon announces the call for papers for the **58th North East Quality Conference (NEQC)**. **Abstracts & Bios due by 4/15.** For more details see: <http://IEEE-NH.org/Docs/2010-04-RS3.pdf>

Please post the notice at work or school.

Ramon reports that the March meeting on **Risk Management** was well attended by 21 members and 18 guests. The presentation can be seen at: <http://IEEE-NH.org/Docs/2010-04-RS2.pdf>



Joint WIE-Gold Group
Sayed Mizan announces the **Annual Hiking Trip to Mt. Cardigan** on Saturday June 26, at 10:30 AM. Please **register before Thursday June 24 at:** 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.

Gloria See reports on the exciting 2/28 **Vertical Dreams Climbing Event**. See her article at: <http://IEEE-NH.org/Docs/2010-04-WG2.pdf>

Jennifer Schelly reports on the 3/9 tour of the **MobileRobots** facility. See her article at: <http://IEEE-NH.org/Docs/2010-04-WG4.pdf>

Brian Roberts shares with us his observations on the March 4-7 **IEEE-USA Annual Meeting**. See his detailed report at: <http://IEEE-NH.org/Docs/2010-04-WG3.pdf>

Other Contact Information

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



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: 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 p.krell@ieee.org

Pre-University Activities

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>



Camp Invention 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



Joint WIE-Gold Group

is organizing three luncheons as part of the Student Transition & Elevation Partnership program which is designed to assist student members as they transition to the professional

world. The luncheons will be held at **Libby's Bar & Grill** in Durham at 12pm on Fri., Apr. 16 for UNH students; at **Shorty's Mexican Roadhouse** in Nashua at 6pm on Thurs., Apr. 22 for students from Nashua Community College, Daniel Webster College, and UNH-Manchester; and on Fri. Apr. 30 at Noon for Dartmouth students, location **TBD**. If you are interested in attending these luncheons to speak with the students, please contact: karen.caron@baesystems.com.



Dartmouth Student Branch

Last month they held their second MATLAB workshop series that was attended by 40 people. This month they will tour Hypertherm Inc., located in Hanover, NH. For details see **Amir Golnabi's** report at: <http://IEEE-NH.org/Docs/2010-04-DC.pdf>



Bill French, NHTI Student Branch Adviser, reports that the branch met on Mar. 9th,

for lunch with free pizza and soda. With the membership fee dropping to half year rates we were able to register 8 new members. We are planning a field trip or two in the coming months to get our student members familiar with some New Hampshire electronics employers.



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. They can still use volunteers and sponsors. For more details go to: <http://IEEE-NH.org/Docs/2010-03-FH.pdf>



The UNH Undergraduate Research Conference

The URC is on Apr. 12-13, 16, 20-24, May 7 & 12. For details go to:

<http://www.unh.edu/urc/events.html>

For the science and engineering portion on April 21, from 2 to 5 PM. see the invitation at:

<http://IEEE-NH.org/Docs/2010-04-UNH1.pdf>



The UNH Graduate Research Conference

The GRC, Apr. 12-13, features research topics from a variety of graduate programs on UNH Durham's campus. For details see:

<http://www.gradschool.unh.edu/grc.html>

Other Articles

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.



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



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

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>

IEEE-USA Annual Meeting



Nita Patel, the meeting chair, shares with us the results from the round-table discussions about the keynote presentation: *The Gathering Storm: Are You Engineering the Solutions?*

See Nita's article at:

<http://IEEE-NH.org/Docs/2010-04-NP1.pdf>

IEEE Region 1 Board of Governors Meeting



Nita Patel, Section Vice Chair, reports on the BoG meeting where she filled in for Don Sherwood who was ill and not able to attend the meeting. See her

article at:

<http://IEEE-NH.org/Docs/2010-04-NP2.pdf>

Brain Teaser Challenge



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



Challenges

You have a chance to win a \$100 American Express

gift card by correctly answering one of the challenges below. Go to:

http://www.tmworld.com/article/323143-Test_Measurement_Challenges.php#Machine

Measurement Challenge: Deviations

Dates: March 18 through April 15, 2010

Question: The deviations of individual measurements from their average determine what feature of the measurements?

You can also see the answers to previous challenges there.

What's Up in the Boston Section?



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

http://www.ieeeboston.org/calendar/cal_monthly_articles/apr10.html and their courses, conferences, and special events at: <http://www.ieeeboston.org>

Wanted, Additional Photographers

Ron Lai just 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.

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

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james-w-anderson@ieee.org

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