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THE AUGUST 2010 IEEE NEW HAMPSHIRE SECTION NEWSLETTER

IEEE-NH.ORG

Chairman's Column

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Conference Season

It seems like this fall, and late summer is becoming the season for local conferences. Three are scheduled over the next several months.

Each conference offers a unique theme and covers a completely different set of topics. I hope you take advantage of this diverse selection and consider attending the one or two that meets your interest and needs.

The **2010 IEEE Fly By Wireless Workshop** will be held at UMaine, Orono, August 24-27. This conference offers 28 Professional Development Hours, PDH. Dr. Ali Abedi's, General Chair, invitation to NH Section members is at: <http://IEEE-NH.org/Docs/2010-08-DS1.pdf> Full details can be found on their website: WWW.CANEUS.ORG/FBW10

IEEE Northeast Industry Day 2010 Conference will be held at the Portsmouth Harbor Events & Conference Center on Sept 24. The NH Section is

a co-sponsor with the Boston and Maine Sections, and Region 1. It is a forum for the IEEE to foster relations with local industry and facilitate business opportunities in the community. The morning sessions feature key note speakers from a past president of IEEE to CEOs of large and small companies in the northeast. The afternoon sessions focus on four general areas of technology; Broadband communications, Energy, Human / Computer Interfaces, and System Engineering. The conference wraps up with an evening reception sponsored by IEEE Women In Engineering. Please see the Announcement Flyer at: <http://IEEE-NH.org/Docs/2010-08-DS2.pdf> and visit the website: <http://ewh.ieee.org/reg/1/irc/> for full details and registration information.

There was considerable discussion among the three sections concerning the best location for this conference. I am very pleased that the Portsmouth Harbor Events and Conference Center was finally selected. It is centrally located, a model facility and offers NH a unique opportunity to promote business relationships through technology while showcasing the region. If you or your company is interested in participating please contact me. Don't forget to take advantage of the early bird registration, August 24 deadline and save 50%. A bargain at only \$50!

The NH Section is also a sponsor of the **New Hampshire Joint Engineering Societies Conference**. The fourth annual conference will be held at the Executive Court Banquet Facility at the Yard in Manchester on October 7. This year's conference theme is "Forensics in Engineering – CSI of Our Profession". The program features single track morning sessions and dual track afternoon sessions. See: <http://IEEE-NH.org/Docs/2010-04-JES.pdf> for details on the prominent speakers and interesting topics. Participants earn 6 Professional Development Hours.

Summer Season

Be sure to read the article on the Maine Section's summer tour of the **Bath Iron Works** that a group of NH members attended at: <http://IEEE-NH.org/Docs/2010-08-DS3.pdf> and **Nita Patel's** article on our own summer outing at the **NH Audubon's McLane Center** in Concord. Both summer activities were a great success.

Feedback

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

Meet Two New Senior Members

We were just notified that **Tony Azar** and **Thomas Gay** have been elevated to IEEE Senior Member grade. We congratulate them on this significant accomplishment!



To see their biographies, please go to:
<http://IEEE-NH.org/Docs/2010-08-SR.pdf>

2011 Section, Chapter and Group Officer Elections

Nominations Committee

At the June 10 Ex Com meeting Jim Anderson and Stoney Worster were appointed to the Nominations Committee. The Bylaws require a minimum of three members on the committee who are **not** a **Section** Officer and are not intending to run for Section Office. **Please contact donsherwood@ieee.org if you are willing to serve on the Nominations Committee.**

Nominations

Please contact the Chair of the Nominations Committee, james-w-anderson@ieee.org, if you would like to be considered by the committee for the following **Section Offices: Chair, Vice Chair, Treasurer, Secretary, or Member-at-Large..**

Also contact him if you would like to be considered by the committee for the following Offices: **Chair, Vice Chair, Treasurer, or Secretary** of the following **Chapters and Groups:**

- 1- Communications and Signal Processing Chap.
- 2- Computer Chapter
- 3- Consultants Network (Group) *
- 4- Engineering in Medicine and Biology Chapter
- 5- Life Members Group
- 6- Microwave Theory and Techniques Chapter
- 7- Power and Energy Chapter
- 8- Joint Women in Engineering and Graduates of the Last Decade (WIE-GOLD) Chapter.

* **NOTE:** The Consultants Network also has a Member-at-Large position.

In all cases please provide a short statement about your qualifications for the desired position.

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.



Dear Leslie Letters

This month **Leslie Gabriele** answers three letters: How to Market Yourself, How to get References, and How to Handle Keyword Scanning. See:

<http://IEEE-NH.org/Docs/2010-08-LG.pdf/>



eCoast and the NH High Technology Council present TechWorld 2010, October 14 and 15 at the Pease

International Tradeport in Portsmouth, NH. For details see:
<http://www.portsmouthchamber.org/ecoast/local-news-events/tech-world2010.asp>

Starting Your Own Business?



The fourth of a five part IEEE-USA Webinar series on **Financing for**

Entrepreneurs continues on Thursday Aug. 5, from 2 to 3 p.m. EDT. "**Reduce the Agony: Learn How to Find Financing**" The presenter is **Dr. Dileep Rao**, financier, columnist, and adjunct professor. For more information and to register go to:

<http://www.ieeeusa.org/careers/webinars/2010/Bootstrap-to-Billions.html>

IEEE-USA has 11 services that provide **Help for the Unemployed or At-Risk Members..** Go to:
<http://www.ieeeusa.org/careers/help/>

Checkout the **IEEE NH Consultants Network** at:
<http://www.consultantsnh.org/> and the **Amoskeag Business Incubator** at:
<http://abi-nh.com/>

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.

Computer Society



Barbara Bancroft reports on the Job Skills Symposium that was held in April. See her report at:

<http://IEEE-NH.org/Docs/2010-08-CS.pdf>.

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

Madeleine Lowe announces a meeting on "Individual Non Group Coverage Vs. Small Group Coverage. What is best for me?" on Thursday 9/2. For all the details please see: <http://IEEE-NH.org/Docs/2010-08-CN1.pdf>.

Please post the above notice at work or school.

Madeleine reports on the June and July meetings See: <http://IEEE-NH.org/Docs/2010-08-CN2.pdf>.

Joint Com-Sig Societies Chapter



The Chapter is taking the rest of the Summer off. 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: **Mike Lerer** at: mike@mike-lerer.com



<http://www.comsoc.org/free-tutorials/>

The Communications Society offers a new **free tutorial** every month and at any time there are usually three of them available at:

Membership Activities



Jason Hui congratulates 3 new senior members, and welcomes both new members and those who have recently moved into the Section. He also summarizes news from a recent Region 1 Membership Development Conference Call, and reminds us about the process and benefits for becoming a Senior Member. See his article at: <http://IEEE-NH.org/Docs/2010-08-MD.pdf>



Microwave Theory and Techniques Society Chapter

Don Sherwood announces a planning meeting on September 15, at 6:00 PM in the Nashua Library. For all the details please go to: <http://IEEE-NH.org/Docs/2010-08-MT.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. See the updated program at: <http://IEEE-NH.org/Docs/2010-04-JES.pdf>

Please post the above notice at work or school.



Power & Energy Society®

Power & Energy Society Members

IEEE has three free webinars that may be of interest to you. They are on 8/18, 8/19 and one is a replay that is available at any time. For all the details see the article at: <http://IEEE-NH.org/Docs/2010-08-PE.pdf>



IEEE Boston Reliability Chapter

A Joint Chapter with New Hampshire and Providence

Ramon De la Cruz announces the 9/15 meeting at 5:30 PM on **Microprocessor Industry-Wide Soft Error Reliability Trends and Challenges** by Charles Recchia, Intel Corp. **Register by 9/10 at:** <http://ewh.ieee.org/r1/boston/rl/events.html> The meeting is at Teradyne, 600 River Park Drive, North Reading, MA For details see: <http://IEEE-NH.org/Docs/2010-08-RS1.pdf>.

Please post the above notice at work or school.

Ramon reminds us about the **North East Quality Council 58th Conference** and seminars on Oct. 18 – 22. See the complete brochure at: <http://IEEE-NH.org/Docs/2010-07-RS1.pdf>

Call for Volunteers for the Rel Soc AdCom. We would be thrilled to have women become part of the leadership. Contact Ramon rdelacru@ieee.org

Ramon announces that the presentation from the 6/9 meeting on **IEEE Reliability Standards** is at: <http://IEEE-NH.org/Docs/2010-08-RS2.pdf>

Gregg K. Hobbs, Ph.D., P.E., the inventor of the HALT and HASS test techniques, passed away on July 7, 2010.



Joint WIE-Gold Group

IEEE is preparing a WIE Poster highlighting dynamic WIE role models. The **deadline is 8/31**. If you would like to be considered or if you know

a dynamic WIE member please see the article at:
<http://IEEE-NH.org/Docs/2010-08-WG1.pdf>

Brian Roberts invites us to join them and the Region 1 GOLD members for a **white water rafting** event on Saturday September 18 at 9:30 AM on the Deerfield River, Monroe Bridge Section, in Charlemont, MA. For all the details and registration details see the article at:
<http://IEEE-NH.org/Docs/2010-08-WG.pdf>

Other Contact Information

Contact information for other Chapters and Groups that did not have any announcements this month are at the end of the newsletter.

Pre-University Activities

Pre-University Grants



Don Sherwood has issued a call for the names of **Private NH Schools** to be added to our database so that we can notify them about our grants. Please see Don's article at:

<http://IEEE-NH.org/Docs/2010-08-PU.pdf>

Student Activities



IEEE is looking for judges for the contest which is tentatively set for October 23. Please

respond ASAP if you are interested. Please see:
<http://IEEE-NH.org/Docs/2010-07-SA2.pdf>. For sample questions from previous years please see:
<http://IEEE-NH.org/Docs/2010-07-SA3.pdf>.

Other Articles

Summer Outing



Nita Patel reports that we enjoyed a gorgeous day with fascinating naturalist presentations and yummy Bar-B-Que at the annual summer outing on July 17th. To see what you missed read Nita's article at:
<http://IEEE-NH.org/Docs/2010-08-SO.pdf>



Develop Leadership Skills through Volunteering

by **Nita Patel**. Leadership skills include planning projects, managing time, motivating individuals, giving feedback and building teams. Volunteerism develops and improves these and other critical business skills. Learn how and why by reading the article at: <http://IEEE-NH.org/Docs/2010-08-NP1.pdf>

NH Logo Shirts Are Back



Don Sherwood announces that the shirts are available again. The shirts will use the latest IEEE logo. For all the details see the article at:

<http://IEEE-NH.org/Docs/2010-08-LS.pdf>

Why So Few?



Why do so few women enter STEM fields? The AAUW recently published a report on their findings. Nita Patel's article presents their recommendations to increase the number of women in STEM fields. See Nita's article at:
<http://IEEE-NH.org/Docs/2010-08-NP2.pdf>



Challenge is Back!
You have a chance to win a prize by answering the

challenge below. Go to:
http://www.tmworld.com/article/323143-Test_Measurement_Challenges.php
Data-Acquisition Challenge
Dates: August 2 through September 1, 2010
Prize: 16GB iPad with 3G (a \$600 Value)
Contest sponsor: Data Translation
Question: Which of the following degrades a measurement system's effective number of bits?
Choose the best answer

- Noise from gain-setting resistors within the instrumentation amplifier
- Sample-and-hold amplifier bandwidth errors
- Channel-to-channel offset
- Input multiplexer channel crosstalk
- Nonlinearity of an analog-to-digital converter
- All of the above
- Answers a and d only



2010 Outstanding Young Engineer Nominations

Dean Bacon calls for nominations for the award. The nominee must be a full member of the section for at least a year and must be 35 or under on January 1, 2010. **Nominations are due by October 7.** For details see: <http://IEEE-NH.org/Docs/2010-06-OYE.pdf>

AWARDS

IEEE-USA has extended the nomination **deadline to August 25**. The **IEEE Member and Geographic Activities Board** has issued a call for nominations for recognizing outstanding IEEE volunteers and contributors. The nomination **deadline is October 15**. For more information on both sets of awards see: <http://IEEE-NH.org/Docs/2010-08-AWD.pdf>

IEEE President-Elect Candidates

There are two very qualified candidates, one of whom will be President of IEEE in 2012. Please read their attached fliers and their websites very carefully as they will set the direction that the IEEE will take in 2012. You should have received your ballots by now.



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

What's Up in the Boston Section?



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

http://www.ieeeboston.org/calendar/cal_monthly_articles/aug10.html and their courses, conferences, and special events at:
<http://www.ieeeboston.org>

Other Contact Information

Here is contact information for the Chapters and Groups that did not have any announcements or reports this month.

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

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

PACE Committee



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 **Madeleine Lowe** at: m.lowe@ieee.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

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

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

Please contact the Editor at:
james-w-anderson@ieee.org

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