

Fostering technological innovation and excellence for the benefit of humanity.

THE AUGUST 2009 IEEE NEW HAMPSHIRE SECTION NEWSLETTER

IEEE-NH.ORG

Chairman's Thoughts

By Jim Anderson

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PLEASE VOTE!

Your participation in the annual election will determine the course the IEEE will take in the following years. The opportunity to vote for the **officers that serve on the top-**

tier IEEE governing bodies is a privilege and a duty of your membership. Please exercise this opportunity. The ballots have been mailed to you via first class and you can also vote electronically. For details on the candidates, their positions, and on the process go to:

<http://www.ieee.org/web/aboutus/corporate/election/index.html>. Thank you for voting.

Needed - Section Vice Chairman!

If you are interested in being considered to fill the position for the rest of 2009 please contact me. The job is to fill in for the chair when he can not make a meeting (I haven't missed a meeting in over three years) and other duties as assigned. At the moment that would be helping with the annual banquet and possibly helping with the Speakers Bureau. **Thank you for considering this position.**

Milestones in Electrical Eng., Computing & Associated Sciences

The milestones recognize the technological innovation and excellence for the benefit of humanity found in unique products, services, seminal papers and patents.

We are looking for someone with an interest in history to Chair our Milestones Committee and **showcase the technological achievements in New Hampshire**. As a result of our last Ex Com meeting we came up with a dozen milestones, and we are just scratching the surface. For more information on the program go to: http://www.ieee.org/web/aboutus/history_center/milestones_intro.html. Region 1 Coordinator, Gill Cooke, will help you get up and running. **Thank you for considering this position.**

Northeastern Area Chair

We are part of Region 1 which is divided into four areas. We are in the Northeastern Area. The 2010-2011 Area Chairs will be elected by the Section Chairs in each area at the Region 1 Summer Board of Governors Meeting on August 7-9. I had the honor of nominating our Section Past Chair, **Tom Perkins**, to be our Area Chair. See Tom's bio and his position statement at: <http://IEEE-NH.org/Docs/2009-08-TP.pdf>

The True Origin of the Internet

I was doing some research recently and found an ancient document that described in great detail how the Internet was originally formed and developed into the economic power house that it is today. Too see the document go to:

<http://IEEE-NH.org/Docs/2009-08-OI.pdf>.



Until August 21 members can buy The Best of Backscatter from IEEE-USA Today's

Engineer, Volume 2, for only **\$0.99**, the non-member price is \$19.95. For details see: <http://IEEE-NH.org/Docs/2009-08-BB.pdf>.

Feedback

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

How I Became Interested in Engineering



This month Luis Figarella, our Humanitarian Technology Challenge Liaison, shares with us his humerus story of how he became an engineer by a "process of elimination." See his story at:

<http://IEEE-NH.org/Docs/2009-08-LF.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.



How to Win in a Competitive Market - Part 2

You've been out of work for six months or longer. You've rewritten your resume. You've talked to headhunters. You've taken a course on improving your interviewing skills, but you're still out of work. What more can you do? Come join Sherri Edwards on **August 12th** as she provides webinar participants with tactics and methods being used by other longer-term unemployed individuals that are providing them with a leg up on finally landing that next position. Register at: <http://www.ieeeusa.org/careers/Webinars/2009/webinar-07-12-09.html>. **Missed Part 1? See:** <http://www.ieeeusa.org/careers/Webinars/2009/webinar-05-21-09.html>.

Other Resources

If you are aware of other resources of benefit to our unemployed members, please contact me at: james-w-anderson@ieee.org

Local IEEE Meetings

Summer Outing



Don Sherwood reports on our very successful outing at the McAuliffe Shepard Discovery Center. It was the best attended event that we have had in years.

On behalf of all the attendees, **thank you Don** for everything you did to make it such a success.

See Don's report at:

<http://IEEE-NH.org/Docs/2009-08-SO.pdf>



Kathy Kowalenko, Editor of The Institute, is writing an article about how IEEE society membership has benefited members in their career, and she is seeking people to interview. Please contact her at k.kowalenko@ieee.org.

The following meetings offer relevant technical information, and no matter what field you are in, they all are excellent networking opportunities. Take advantage of them!

Computer Society Chapter



Barbara Bancroft announces the tentative schedule for the new academic year.

Sep. 22 – Nashua – 12 noon
Oct. 13 or 22 – SNHU – 7 pm
Nov. 17 – Nashua – 12 noon
Dec. 8 – SNHU – 7 pm
Jan. 26 – Nashua – 12 noon
Feb. 16 – SNHU – 7 pm
Mar. 16 – Nashua – 12 noon
Apr. 13 – SNHU – 7 pm

Joint Com–Sig Societies Chapter



Kenric Nelson and Ravi Subrahmanyam remind us that on Oct. 6th Distinguished Lecturer, Dr. Uday Desai, will speak on Multihop Wireless Communication. They are still seeking an instructor for a wireless workshop.



Ramon De La Cruz announces a meeting on Wed. Sept. 9th, at 5:30 PM, at RSA in Bedford MA.

Frank Andres will address **SMT and Wave Soldering Technology Drivers and Their Influence on Alloy Selection..** To attend **Register** at:

<http://www.ieee.org/bostonrel> by Mon., Sept. 7th. For more details see:

<http://IEEE-NH.org/Docs/2009-08-RS1.pdf>.

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

Ramon De La Cruz announces a forum on **Effectiveness of Tools and Methods In Reliability, Serviceability and Maintainability.** It will be on Oct. 20, 21, & 28 at 5:30 PM, at EMC Training Center in Hopkinton, MA. For **Registration dates and fees**, and for more details see:

<http://IEEE-NH.org/Docs/2009-08-RS2.pdf>.

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

The presentations from the July meeting on lead free solder are at:

<http://IEEE-NH.org/Docs/2009-08-RS3.pdf> and <http://IEEE-NH.org/Docs/2009-08-RS4.pdf>.



Joint WIE-Gold Group

Greg Hovagim reminds us about the night out at **Extra Innings Indoor Batting Cage**, at 9 Congress Street, Nashua on Aug. 21st, at 6:00 PM. RSVP by Aug. 18th. See the announcement at: <http://IEEE-NH.org/Docs/2009-07-WG3.pdf>

Come watch the boxes zoom by at UPS!

Ever wonder how UPS delivers all its packages so quickly? This is your chance to come see them in action! We will be touring the UPS facility at 1 Wall Street in Hudson, NH with the UPS Women's Leadership Development group. The tour will be held on Oct. 28th from 6-8PM. A light meal will be provided by UPS. Please RSVP to jennifer.schelly@baesystems.com.

Engineer the Future Sharpen your Competitive Edge



Sept. 25-27 at Crowne Plaza Hotel, White Plains, NY. For registration information and more details please go to:

<http://IEEE-NH.org/Docs/2009-08-WIE.pdf>

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

NH Joint Engineering Societies



Registration is now open!

The theme of the October 8th Conference is **Investing In Infrastructure**. IEEE NH Section members Thelma Brown and Jim Isaak are among the presenters.

The program and registration form are at: <http://IEEE-NH.org/Docs/2009-08-JES.pdf>.

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

Other Contact Information

Engineering in Medicine and Biology Society Chapter

By Wayne Smith



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:

wjsmith@cisunix.unh.edu

Life Members Group

By Jim Anderson



We will be scheduling meetings in the Summer. 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

Microwave Theory & Techniques Society Chapter

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

PACE Committee

By Madeleine Lowe



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: m.lowe@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

Pre-University Activities

UVA Virtual Lab



Professor John C. Bean of the Univ. of Virginia at Charlottesville was recently honored by IEEE for developing this lab for pre-college and undergraduate students to run electrical experiments. Check out the lab at:

<http://virlab.virginia.edu/VL/home.htm>. He recommends using Firefox for best results.

NH Scholars Program



Consider helping with this program. The NH program not only encourages students to challenge themselves in rigorous course work, but it also better prepares students by emphasizing the importance of critical

21st century skills needed in today's workforce.

When community leaders reinforce this message via classroom presentations and career exploration activities – students listen! Check out: <http://www.nhscholars.org/NHScholarsChampion.cfm>. If you would like to assist us with this project, contact Don Sherwood at: donsherwood@ieee.org

FIRST Women in Science and Technology Forum



UNH Manchester is sponsoring its eighth forum on Nov. 6th during the school day. The forum helps high school girls make decisions about future career paths. They are looking for sponsors, for female technologists to give presentations, and for people who want to attend with their students or daughters. For more details see: <http://IEEE-NH.org/Docs/2009-08-FW.pdf>.



Ben Prat announces that they have recruited a coordinator for the Seacoast Region.

Student Activities

Will return in the Fall.

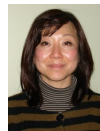
Other Articles

Membership Activities



Jason Hui welcomes nine new members and three members that have recently moved into the Section, and reminds us about discount on dues for graduating students and the process and benefits for becoming a Senior Member. His article can be found at: <http://IEEE-NH.org/Docs/2009-08-MD.pdf>.

Northeastern Area Industry Day



Mimi Tam updates us about her efforts to get the local sections to hold a Northeastern Area Industry day in 2010. See her article at: <http://IEEE-NH.org/Docs/2009-08-ID.pdf>

Brain Teaser Challenge



Butch gives us the answer to July's question about graphics compression and challenges us with a question about harmonic distortion of the power waveform. See Butch's column at: <http://IEEE-NH.org/Docs/2009-08-BTC.pdf>.

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_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.

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/2009-08-OM.pdf>.

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.

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 your story.

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

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