

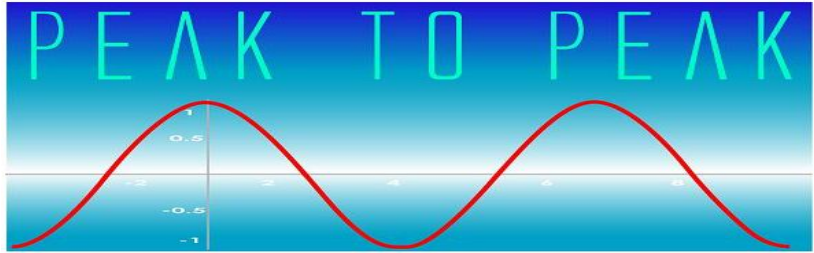


JUNE 2006

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http://www.ieee.org/UNH_Section



THE IEEE NEW HAMPSHIRE SECTION NEWSLETTER

Chairman's Thoughts

By Tom Perkins

On April 26, my wife and I, along with Chuck Button our Secretary, had the privilege of attending the UNH IEEE Student Chapter's year-end dinner at Acorns on the Durham campus. It was great to meet with several faculty members, many students, and many of the students' parents.

Since January I've received about 10 requests regarding upgrade to Senior Member or even from Sr. Member to Fellow. We are still working to get a "networking" system in place in order to assist. Please be patient. It may take two or three more months before we have something together that will work effectively.

I am continually encouraged to see our Newsletter and Website improving. Your leadership is looking forward to the Region 1 Summer Board of Governors meeting in Syracuse on August 18-20.

On Wednesday, September 20, we will have a joint Computer and Microwave Theory and Techniques chapter meeting in Nashua. The speaker will be Distinguished Professor Anthony Ephremides from the University of Maryland. The topic of

his talk will be *New Directions and Challenges in Wireless Networking*.

From New Hampshire, Dr. Ephremides will proceed to two talks in Maine and one in New Brunswick, Canada. Watch for more details this summer.

Finally, don't forget the M/S Mt. Washington boat trip on Lake Winnepesaukee on July 22. It promises to be a great time of food, fellowship, and sightseeing.

Please feel free to contact me, Tom Perkins, at tomperkins@ieee.org or NHIEEE@aol.com. I would enjoy hearing from you.

From the Editor

By Jim Anderson

As you can see from the mast-head, we have a name for our newsletter. Mr. Tom Brody, of Thermo Electron Corporation, submitted the winning name, Peak to Peak, for the newsletter. The name relates to our majestic mountains and to the waveform on an oscilloscope.

I would like to thank our members who sent in suggestions for the newsletter name. At the time, the ExCom chose the winner, they did not know the

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From the Webmaster

By Jim Bock

Recently we added links to myIEEE and to the Senior Member Upgrade page. The Upcoming Events page has been updated and some broken links on the Photo Album page have been repaired. For more information or comments on the web-site, contact Jim Bock at J.Bock@ieee.org or visit the site at http://www.ieee.org/NH_Section

The Section Officers



IEEE NH Section Officers are (left to right): Chuck Button - Secretary, Tom Perkins III - Chairman, Celine Bilodeau - Vice-Chair, and Dean Bacon - Treasurer

Chapter News

Computer Society

May 28 Meeting Report

Bob Gezelter, a Computer Society Distinguished Visitor Program speaker joined the CS Chapter for an informal discussion of security challenges facing both the individual and business users. A number of key considerations surfaced, including the legal exposure that businesses have if they do not implement established security practices, and the

types of risks that personal users face from various forms of attack.

Besides the 'obvious' (virus protection, firewall, spyware protection), it is important to avoid 'obvious' passwords and PINs, and also using the same password on important and non-important sites. The 'obvious' problem reflects attacks where obvious passwords are used while changing the user-name-account-number to break in; and for some sites, the passwords are stored in the clear and can then be used to break into your more critical accounts.

Bob has indicated a willingness to return next year if there is interest from those who were unable to attend the May session. (Let Jim Isaak know what speakers/topics you would like.)

IT Seminar Series

For the 2006 - 2007 academic year, the chapter is scheduling its IT Seminar Series on Thursdays from 7:00 to 9:00 PM in the Walker Auditorium of Robert Frost Hall at SNHU. Save the following dates: Sept. 21, Oct. 19, Nov. 9, Dec. 14, Jan. 25, Feb. 22, Mar. 15, Apr. 12, and May 3. Stay tuned for more details.

If you have particular topics you would like to see covered, or speakers to suggest, please send a note to: nhchapter@jimlsaak.com

Microwave Theory and Techniques (MTT)

Our Chapter hosted a talk given by Dr. Michael Shur, Professor from RPI, on May 15. There were 26 in attendance. His subject matter was Gallium Nitride Microwave Transistors. This is an emerging technology that has promise for high power solid-state components.

In June, I will be attending the IEEE International Microwave Symposium in San Francisco, including the MTT Chapter Chairman's dinner. It is an honor and pleasure to represent our section. Hope to see some of you there!

The Chapter meetings are usually held in the evening at the BAE Systems headquarters in Nashua. Look for future meeting announcements here, on the NH IEEE web site, e-mailings, the IEEE Reflector, and the e-Reflector.

If you have any suggestions for meeting topics or speakers for the fall; or if you would like to become more active in the Chapter, please feel free to contact me, Tom Perkins, at tomperkins@ieee.org or NHIEEE@aol.com. I would enjoy hearing from you.

Power Electronics

If you have any suggestions for meeting topics or speakers; or if you would like to become active in the Chapter please contact Chuck Button at chuckbutton@ieee.org

Power Engineering

If you have any suggestions for meeting topics or speakers; or if you would like to become active in the Chapter please contact Paul Krell at krell@unitil.com

Student Branch Contact Information

☞ DARTMOUTH COLLEGE

HANOVER, NH

Counselor: Edmond S. Cooley:
edmond.cooley@dartmouth.edu

ENGINEERING IN MEDICINE AND BIOLOGY Chapter

Advisor: Paul M. Meaney
paul.meaney@dartmouth.edu

Chair: Bethany Knorr
brk@dartmouth.edu

☞ NEW HAMPSHIRE TECHNICAL INSTITUTE

CONCORD, NH

Counselor: Lynn E. Darnell
lynndarnell@aol.com

Chair: Paul A. Strieby
Anthony@techengineer.us

☞ UNIVERSITY OF NEW HAMPSHIRE

DURHAM, NH

Counselor: Andrew L. Kun
akun@hopper.unh.edu

Chair: Bradley J. Bell
bjbell@cisunix.unh.edu

☞ UNIVERSITY OF NEW HAMPSHIRE

MANCHESTER, NH

Counselor: David A. Forest
+1 603 641 4322
Chair: TBD

PACE News

By Duncan Morrill

PACE is that part of the IEEE that is concerned with the non-technical, the so-called professional, interests of IEEE members.

Professional Activities Committees for Engineers (PACE) is a grassroots network of IEEE volunteers and committees organized at the section and chapter level in the United States with support from their respective regions, societies and the IEEE-USA. It is the purpose of PACE to promote the professional interests of IEEE's U.S. members and provides a mechanism for communication of members' views on their professional needs.

Section and Chapter PACE activities include workshops on career issues (networking, career planning, career transitions, personal financial planning); skill training workshops (entrepreneurship, effective speaking, technical writing); [Member Professional Awareness Conferences \(M-PACs\)](#); [technical support for K-12 teachers and students](#); [National Engineers Week](#) events (Future City Competition, mall exhibits, school visits, teacher awards); and support of [Student Professional Awareness Conferences \(S-PACs\)](#). IEEE technical societies can hold career and skill training workshops, M-PACs and S-PACs at their national conferences.

If you have any suggestions for meeting topics or speakers; or if you would like to become active in the Section's PACE Committee please contact Duncan Morrill, at d.morrill@ieee.org

Upcoming Events

June 8th 2006

**6:00 pm, CR Sparks Restaurant
NH IEEE Section ExCom Mtg**

Currently limited to IEEE Section Officers. For more information, email NHIEEE@aol.com or go to [CR Sparks Map & Directions](#)

July 22nd 2006

**12:30 pm, Weirs Beach
NH IEEE Section Summer Cruise**

Cruise on Lake Winnepesaukee with dinner buffet and cash bar. For more information, email NHIEEE@aol.com

TISP (Teacher-In-Service Program) Training Update

By Jim Anderson

This month I would like to give you a little bit more information on the TISP. IEEE is periodically updating their webpage about the Boston session at:

<http://www.ieee.org/web/education/preuniversity/bostontraining.html>

This month they added some more photographs.

Larry Nelson is the Region 1 Pre-college Engineering Coordinator. Larry and his wife have been involved for many years in giving engineering and science demonstrations in the schools in New York and New Jersey.



Mr. and Mrs. Larry Nelson (left) working on the "Build Your Own Robot Arm" project.

Larry can be of assistance if you want to give demonstrations in your local schools. He can be reached at L.Nelson@ieee.org

Jennifer Ng (below), the third member of the NH section that attended the workshop, working on the "Rotational Equilibrium: A question of Balance" project.



From the Editor

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names of the submitters, except of course for your editor. The table on the right lists all the entries and the names of the submitters.

Next I would like to thank Jennifer Ng (jng@ieee.org) and the Marketing Department of Mercury Computer Systems, Inc. who prepared the artwork for our new masthead. Note that the stylized A's in the masthead evoke the mountains. Jennifer is also responsible for the new format for the newsletter, which is a work in progress.

Lastly, I would like to thank Duncan Morrill, our PACE Committee chairman, who suggested the contest and submitted several names.

If you have any suggestions for improving this newsletter, please contact the Editor, Jim Anderson at james-w-anderson@ieee.org

Newsletter Name Contest - Entries

Avalanche [as in diode and snow conditions]	Steve Brody
EE Notes and Notices	Duncan Morrill
Granite Oracle	Rick Fortin
Granite State Newsletter	Rick Fortin
Granite State Variable	Joseph Cierniewski
Granite Tablet	Rick Fortin
Ground Currents	Duncan Morrill
Lepton Network	Duncan Morrill
New Heights Newsletter	Rick Fortin
NHIEEE Emanations	Fred Plett
Old Engineer in Mountain	Steve Brody
Peak to Peak [as in mountains or waveforms]	Steve Brody
Peaks and Valleys [as in NH terrain and waveforms]	Steve Brody
Sparks and Flashes	Duncan Morrill
Sparky's Notes	Duncan Morrill
Take It For Granite	Rick Fortin
Winnepesauke Waves [our famous lake and RF waves]	Steve Brody

Questions & Answers

Q: Who are the NH Executive Committee members?

A: A list of all the members and their contact information is found on the section website at http://www.ewh.ieee.org/r1/new_hampshire/Officers.html

Q: Who do I contact for suggestions on the newsletter?

A: The Editor, Jim Anderson can be reached at james-w-anderson@ieee.org

Q: How do I get removed from the mailing list or update my email address for section news?

A: Send email to the NH Section Administrator, Donna Davis, at NHIEEE@aol.com

Q: How do I get elevated to IEEE Senior member Grade?

A: Please visit the IEEE Senior Member website: <http://www.ieee.org/organizations/rab/md/smpprogram.html>

The NH IEEE Section can support your application and you will need 2 additional Senior members as reference. Please contact Tom Perkins, at tomperkins@ieee.org or NHIEEE@aol.com for more details.

Q: Why aren't the links active in the newsletter articles?

A: Try downloading the latest free version of Adobe Reader at http://www.adobe.com/go/gntray_dlet_reader

Q: Why doesn't the URL http://www.ieee.org/nh_section work?

A: At the present time the URL is case sensitive and you must use http://www.ieee.org/NH_Section. We hope to have this corrected by IEEE shortly.