



THE JANUARY 2007 IEEE NEW HAMPSHIRE SECTION NEWSLETTER

Chairman's Thoughts

By Tom Perkins

As we enter a new year, I'm enthusiastic about several projects that will help our members and profession. Stay tuned for future announcements about Engineer's Week in February, technical society meetings, an exciting engineering symposium in Manchester on October 11, Women in Engineering activities, and Presidential Candidate forums, just to mention a few. Our primary focus must be to provide more opportunities for our membership and help enable students to have a passion for our vast fields of technology.

I am pleased that we have a new location for our monthly executive committee meetings. It is Madden's Restaurant in Merrimack. We usually meet at 6:00 PM on the second Thursday of each month. This larger and more private room should allow more people to participate in our growing section's leadership meetings.

Please vote for your new officers in January. You should receive your ballots about the same time as you receive this newsletter.

If you have any topics that you think should be discussed at next month's Ex Com meeting, or if you want to discuss any other topic, please feel free to contact me at tomperkins@ieee.org. I would enjoy hearing from you.

May you all have a prosperous and safe 2007.

From the Editor

By Jim Anderson

New Newsletter Format

As you have probably noticed, the format of the newsletter has changed. There is no Table of Contents (TOC) in the first column, and there are many other changes inside. As a philosopher once said, the only thing constant in life is change.

The format that we used for the last six months was based on a standard newsletter template that Jennifer Ng customized. It made a tremendous improvement in the appearance of the newsletter and made it much easier to read. All the newspapers and magazines use the multiple column format specifically because it is easier to read. It is easier for the eye to track from the end of one line to the beginning of the next line in a narrow column format. But the fact remains, the template was for a printed newsletter and we do not print our newsletter.

You might ask, "What difference does that make?" At first glance you might answer your own question and say, "None at all!" If you think about it a little you will realize that the format of a printed newsletter is vertical, whereas the format of most computer monitors is horizontal. Therefore, you have to keep reading and scrolling down the first column until you get to the end of the column. Then you have to scroll back to the

top of the page to get to the top of the second column and start reading and scrolling down again. With the new horizontal format, you are able to see the top and bottom of all three columns at the same time.

Well, most of you are able to see the top and bottom of all three columns at the same time. What you can see depends on the resolution of your monitor. Some published research on browser statistics indicates that as of July 2006, 77% of users have a monitors with a resolution of 1024 X 768 (58%) or greater (19%). The new newsletter format is based on a screen resolution of 1024 X 768. We are hoping that the members of the world's largest technical society, about two thirds of whom are members of the Computer Society, will have higher resolution monitors than the average user. If you are one of the 33% with a lower resolution monitor, you will still have to do some scrolling but not as much as before.

The TOC will be on the second page, except when I get long winded like this month, but it looks totally different. Instead of just the title, page number, and Hyperlink to the articles; there is now the title, a graphic (picture or logo) when available, a brief description of the article, page number, and Hyperlink to the articles. Several times with the old TOC, we ran out of space and had to lump multiple related articles under a section heading and just link to the section heading. The new TOC gives us more space.

The other articles are on the following pages.

We have added a “Go to In This Issue” Hyperlink in the footer on each page to make it easy to get back to the TOC without scrolling to it.

The new format is similar to [Google News](#) and [CNN News](#). They give you the top one or two stories up front and links to all the other stories.

You will notice that most of the formatting of the individual articles has remained the same as the last six months.

Once you get used to the new layout I hope that you will find it easier to read and easier to get to the articles of interest to you. As in all things

new, I am sure there are some bugs that I have over looked that will have to be fixed and there will be the inevitable tweaking that will be done to fine tune the layout in subsequent issues.

As always, I am very interested in your comments. Please contact me at james-w-anderson-@ieee.org.

Clarification

In last month’s article, Life Member Affinity Group, I implied but did not state clearly that to become a Life Member you must be at least 65 years old, and your age plus years of membership in IEEE must be at least 100.

In This Issue

Chairman's Thoughts



Tom Perkins talks about events coming up this year, the new place for our Ex Com meetings, and he requests that you vote for our 2007 Section officers.

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From the Editor



Jim Anderson talks about the new format of the newsletter and clarifies one of the requirements to become a Life Member of the IEEE.

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Chapter and Group News

Computer Society



Jim Isaak announces a meeting on January 25. Tim Yeaton of Red Hat will speak on "The Business of Selling Free Software."

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Engineering in Medicine and Biology Society



For information about the chapter please contact Wayne Smith.

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Microwave Theory and Techniques Society



Tom Perkins announces the plans of the Chapter for 2007.

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Power Electronics Society



For information about the chapter please contact Chuck Button.

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Power Engineering Society



For information about the chapter please contact Paul Krell.

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Product Safety Engineering Society (CNEC)



For information about the chapter please contact Steve Brody.

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Women in Engineering



Contact Jennifer Ng for more information about the WIE Affinity Group.

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Pre-University Educational Activity News

First Lego League



Bob Lee, pictured at left in his FLL competition war paint, reports on his team's participation in the NH State Tournament.

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Teacher In-Service Program



Don Sherwood reports on a very successful meeting with the REACH coordinators of the Nashua School District.

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Other Articles

Congratulations!

We were recently notified that the nomination to elevate Douglas Vandemark to Senior Member has been approved. Read more about our new Senior member.

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How I Became An Engineer



Long time member of the Ex Com and Life Senior Member Duncan Morrill explains how he and many others became engineers during and after WW II.

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Brain Teaser Challenge



Butch Shadwell provides the answer to last month's puzzle about being buried alive and challenges our memory this month about the name of adjustable capacitors used in microwave ICs.

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Other Meetings of Interest

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WANTED

We need a Section Photographer, "How I Became an Engineer" articles, and Senior and Fellow members to act as references.

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Questions and Answers

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Chapter and Group News



Computer Society

By Jim Isaak

On January 25, 2007 Tim Yeaton, VP Sales / Marketing of Red Hat, will give a presentation on "The Business of Selling Free Software."

The chapter is scheduling its monthly IT Seminar Series on Thursdays from 7:00 to 9:00 PM in the Walker Auditorium of Robert Frost Hall at SNHU.

For directions to Walker Auditorium go to: <http://www.snhu.edu/209.asp>.

For access to previous presentations go to: http://acadweb.snhu.edu/Isaak_James/ITseminars/index.htm.

If you have particular topics you would like to see covered, or speakers to suggest, please send a note to: ITSeminar2007@JimIsaak.com



Engineering in Medicine and Biology Society

If you have any suggestions for meeting topics or speakers; or if you would like to become active in the Chapter please contact me at: wjsmith@cisunix.unh.edu



Microwave Theory and Techniques Society

I plan to have at least two meetings in the spring of 2007. There is a good probability that we will have Professor Tatsuo Itoh from UCLA speak on Metamaterials and Structures. He is an IEEE Life Fellow and a Distinguished Lecturer.

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



Power Electronics Society

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 Society

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



Product Safety Engineering Society (CNEC)

If you have any suggestions for meeting topics or speakers please contact Steve Brody at steve.brody@thermo.com



Women In Engineering

By Jennifer Ng

IEEE Women in Engineering (WIE) is dedicated to important issues for Women Engineers. Affinity groups provide the opportunity for members to network at a local level. All members are encouraged to join and participate in their local group activities to promote growth within the WIE.

- ✂ Go to <http://www.ieee.org/go/wie> for details
- ✂ Use nhwie-excom@ieee.org mailing list to contact the NH WIE Affinity Group Officers.

If you are interested in supporting WIE activities (or joining WIE), please contact me, Jennifer Ng, at jng@ieee.org or nhwie-excom@ieee.org

Pre-University Educational Activities News

First Lego League

By Bob Lee robert.lee2@ge.com

BAE Systems hosted the fifth annual FLL NH State Tournament at Nashua North High School on Saturday, December 2. Fifty elementary and middle school teams competed for the coveted Champion's Award and an invitation to the FLL World Festival in Atlanta next April. Teams researched, designed, and demonstrated a robotic solution to this year's challenge, Nano Quest.

The all girls' team I coached, Team 1559, Jenious in Disguise, qualified for the state tournament by taking home the first place Teamwork award at

the UNH Tournament. In the time between the UNH Tournament and the State Tournament the girls improved the reliability of the missions they performed at the UNH Tournament and added one new mission, and their work paid off. Their high score at the UNH Tournament was 131. Their high score at the NH State Tournament was 276. They completed every mission they came prepared to run and had the fourteenth highest score of 50 teams. Although they did a great job, their effort was not good enough to earn an award.



Figure 1 Answering questions during the Technical Interview.



Figure 2 Presenting the buckyball blood clot medicine delivery system.



Figure 3 Cheering their highest team score in round two.

The Inventioneers, Team 1693, from Pelham, earned the Champion's Award which is given to the best all around team in robot performance, design, research and teamwork. The Pelham team researched nano technology uses in water filtration and proposed a device to wipe the debris from collection traps. They will represent New Hampshire at the FLL World Festival in Atlanta in April.

We were privileged to witness an FLL first: Team 195, The Flying Geeks, from Nashua Christian Academy, earned a perfect score in one run of the robot. Their robot left base and accomplished all missions with nearly one minute left on the clock.

I am fortunate to have the support of the school administration. The school had scheduled a history fair for the same time frame as the FLL tournaments. The principal moved the history fair until after the tournaments to give team members the ability to concentrate on FLL. The principal has been impressed by what she has seen in the children who participate in FLL. She asked me to give a seminar at an upcoming meeting of Christian school administrators on how to start an FLL

team. She would like to see more small schools get involved.

Now that our season is over, my attention is already turning to next year. FLL announced next year's theme: alternative energy sources. I am thinking of ways to improve the team for next year by offering off-season training in robot construction and advanced programming techniques. I have another parent who should be capable of running a team next year. I may start a third team next year if the interest is there.

Bob Lee is a firmware engineer for GE Energy in Somersworth, NH, where he designs firmware for electricity meters. Bob graduated cum laude from Dartmouth College in 1982 with a BA in Computer Science. He has been a member of IEEE Computer Society since 1982.

Teacher In-Service Program

By Don Sherwood

Jim Anderson, Tom Perkins and I received a very warm reception for our second meeting with Dr. Althea Sheaff and five REACH specialists on December 7th at the Nashua school administration building. REACH is a program to Recognize Extraordinary Ability in Children. The REACH specialists coordinate the curriculum and activities for gifted and talented students throughout the school system. During the meeting we briefly reviewed fourteen of the TISP activities, highlighting the areas that present challenges for the students. Considerable time was spent on the 15th activity, rotational equilibrium, showing how three mathematical methods can be used to find the balance location of a mobile. A kit of materials for a hands on demonstration was given to each of the specialists, but lack of time prevented actually building the mobiles during the meet-

ing.

The specialists were very enthusiastic about incorporating the activities into their programs. One suggestion was that we present a workshop that includes not only the teachers, but also some of the students from the REACH program. This would allow the students to assist teachers in presenting the activity to their class. One of the specialists was particularly impressed that historical background on the invention of the paper bag was included in the “Design and Build a Better Candy Bag” activity.

This was a very productive meeting for all. We learned more about the need for the activities to present challenges to the REACH students in each of the grades. There was lively discussion among the REACH specialists on how they could use the TISP activities in their programs. The meeting concluded with the specialists agreeing to select a few of the activities and get back to us on a workshop format that best fits their needs.

We received feedback that a workshop will most likely be scheduled for early this year and that we will most likely be invited back to present the TISP material to the high school math and science teachers. It is looking like 2007 will be busy year.

Other Articles

Congratulations!

The section was recently notified that the nomination to elevate Douglas Vandemark to Senior Member has been approved. Below is some information about our new Senior Grade Member.

Douglas Vandemark earned a B. S. in Physics from Hope College, Holland MI in 1986; an M. S. in

Electrical Engineering from the Microwave Remote Sensing Laboratory at the University of Massachusetts, Amherst in 1998; and a Ph. D. in Earth Science from the University of New Hampshire (2005).

He worked for the McDonnell Douglas Helicopter Company in Mesa AZ from 1988-1990 as a member of the technical staff and then from 1990-2005 as a research engineer and scientist for NASA’s Goddard Space Flight Center at the Wallops Island Flight Facility, Wallops Island, VA.

While at NASA he specialized in developing new radar remote sensing techniques for observing the earth from space, particularly in the area of atmospheric and ocean observing sensors. This included work with the TOPEX and Jason-1 satellite altimeters and sensor validation activities for numerous space borne platforms including space shuttle demonstration projects such as the Laser in Space Experiment (LITE) that provided the pilot wok for the present NASA Calipso mission.

He has worked extensively in the design, field testing, and analysis of earth observing microwave radar and radiometers using NASA aircraft including the P3-B Orion and ER-2.

Doug has been a member of NASA’s Ocean Surface Topography Science Team since 1997 and was a Principal Investigator under NASA Physical Oceanography research program from 1991-2005. He has authored or coauthored more than 50 articles in the peer-reviewed literature spanning a range of microwave radar, ocean remote sensing, and air-sea interaction topics.

In 2005 he left NASA to become a research associate professor at the University of New Hampshire’s Institute for the Study of Earth, Oceans and Space (EOS). Here he is involved in teaching activities as well as being a Principal Investigator participating in several ongoing coastal ocean ob-

serving initiatives at UNH including the Joint UNH/NOAA Center for Ocean Observing Technology. This work involves sensor developments for underwater and shipboard deployments as well as the use of satellite data to help monitor Gulf of Maine and other coastal waters. Doug and his family make their home in Portsmouth NH.

How I Became An Engineer

By Duncan Morrill

IEEE NH Senior Life Member

Hardly appreciated and generally under valued by our citizenry and society has been the contribution to the explosive progress in the development of electronics of all sorts, a contribution from the military electronics training given to a few of those who served in our armed forces from Perl Harbor to the Fall of the Berlin Wall. Here’s but a small example.

About April of 1954 I noticed an announcement from the Pentagon, part of the torrent of paper that routinely came across the desks of all us First Sergeants, that there was a special effort to get volunteers for some new training just starting up at the AAA & GM School out in Fort Bliss, Texas. Fort Bliss was the home of the Army’s AAA (antiaircraft artillery) and they were moving into guided missiles (GM), surface-to-air missiles (SAMs), for shooting down airplanes and the Army figured they’d need some specially trained soldiers to operate, maintain and repair all that new guided missile stuff. Looking for something less boring to do, I volunteered for guided missile electronics maintenance training.

Now, I’d been interested in electronics since we’d first heard of radar back in Boston early in WW II. As a young teenager I even signed up for a De Vry correspondence course in basic electronics

that I saw advertised on the inside of one of those cardboard matchbook covers. I guess I accomplished maybe a dozen of the lessons before I ran out of money, it was pay as you learn, and ran out of comprehension and interest. I'd even bought a copy of the maroon electronics bible of those days, the famous, invaluable *IRE Radio Amateurs Handbook*.

But back to 1954 when the draft was still on, young men had to serve eighteen months or so. However, if you volunteered for three years, became an RA (regular army) as they used to say, you had many more interesting options, one of which was to be sent to some training courses like those at Fort Bliss, where the hot newest courses were for the Nike system; three months of basic electronics followed by six months training on the missile part of the system or nine months on the ground guidance part.

I opted for the longer, 1 year, course which covered maintenance and repair of two tracking radars, an acquisition radar, a bodacious 100-amplifier analogue computer, several CRT displays and attendant command and control systems. Besides the three outside radar antennas this system filled two large box trailers and was operated by a crew of not less than five. I seem to recall that those first Nike systems, designed by the Bell Labs and manufactured by Western Electric, had an MTBF (mean time between failures) as high as fifty operating hours. With some forty or so others, from Private First Class to Master Sergeant, my class, SAM 3, started basic electronics June 1954. By September we were spending our mornings in the class rooms, which had no air conditioning, of course, because we were in some buildings that weren't new when Custer left to chase those Indians, and we spent our afternoons out in the Nike Radar Park on the actual equipment.

By mid 1955 the Nike national air defense program was moving into high gear and the AAA & GM School got a big new classroom building, fully air conditioned, classes of a hundred starting every couple of months and a half dozen or so new equipment sets for instruction in the Radar Park around the clock, 24 hours a day, 7 days a week. To ramp up the instructional staff as well, over half my class, almost all completed the course, was tapped to become instructors. It was generally considered desirable duty; better than being shipped to Alaska or the outskirts of Seattle, Chicago or Baltimore to maintain one of the new Nike firing batteries being set up all over the country. This course of Cold War events was repeated elsewhere in the Army and in the Navy and Air Force; they were all getting electronified big time and that meant training maintenance techs.

After a couple of years of intensive duty as a Nike electronics maintenance instructor, most of us were prime targets of headhunters from defense electronic firms, and so many of us went on to nice civilian electronic engineering jobs. I ended up in the Bell Telephone Laboratories up in New Jersey.

From the 1954-5 peer group of a hundred or so of those Nike electronics maintenance instructors came the following few notable alumni and contributors to advancement of electronics, as best I can recall.

Mort Diamond, Executive VP, ITT, Washington, D.C.

Don Eckmann, VP, Lockheed Missiles & Space Company, San Jose, CA

Gerry Farmer, President, some neural net company, San Diego, CA

Hugo Ferry, President, some electronics manufacturer, San Diego, CA

Tom Keech, VP, Armstrong Cork, York, PA

Duncan Morrill, VP R&D, Computer Automation, Irvine, CA

Sherm Mullin, President, Lockheed Skunk Works, Burbank, CA

Jim Thalheimer, President, a GE electronics division, Dayton Beach, FL

I'm certain there are others of our peer group worthy of mention but these few I can recall, more or less, are sufficient to prove my point of what a special national asset were the Department of Defense electronics training courses, and similar ones in other technologies.

A special IEEE note in passing: The Sherm Mullin of our list, known back in Fort Bliss as "Moon," was, though president of an advanced aircraft development organization of aeronautical renown, an electronics engineer, his membership in the IEEE going back to the IRE. An electronics engineer heading up the Skunk Works might give some indication of the technological thrust in advanced aero systems.

I must confess, of course, to having lost over the intervening half century contact with, and even track of, some of these alumni of the Nike maintenance academy and the Don Quijote Cafe Marching and Chowder Society so the likely mistakes in all this are truly inadvertent, though all my fault.

Brain Teaser Challenge

By Butch Shadwell

Last Month's Challenge Solution

If you ever find yourself buried alive, you might want to calculate something like the following; "...your lung capacity is 1 liter, and with every breath you remove 20% of the oxygen in that air. Your body occupies a volume of 30 liters. Then you get trapped in an airtight box that is 70 cm by 220 cm by 50 cm inside. How many breaths will it take you to consume 50% of the available oxygen in the box, just before you pass out? Assume that when you breathe out the gas in the box is immediately homogeneous again before you breathe in, so the air starts 100% oxygenated and then it is reduced with each breath. Also we will ignore the biological effects of the rising CO2 levels."

I suspect this one was a little harder than most. I have only received one answer as I write this, and he got it right. The first step is to calculate how much air is in the box. From above it is clear that the box is 770 l. When we subtract 30 l for the volume of the person, we get 740 l. So then, since this person's lung capacity is 1 l, with each breath he reduces the current oxygen content of the box by a factor of $(1 - (.2/740))$ or .99973. So $0.99973^n = 0.5$ (50%), where n is the number of breaths breathed to get to the 50% point requested. To solve for n we can use a log conversion, $x^A = y$, or $A * \ln x = \ln y$. This leads to $A = \ln y / \ln x$, where $y = 0.5$, $x = 0.999729$, and A is the unknown n in the original equation. Making the substitution we get 2564.29 breaths to oblivion. At 15 breaths per minute, life seems very short. But I bet you already knew that.

This Month's Challenge

Chuck Yeager is an aviation icon. The first man to exceed Mach 1 in level flight, his accomplishments as a test pilot and Air Force combat pilot and commander are unequalled. He was advanced post retirement to Major General. He recently got himself a new wife, and is still setting records.

His last official flight in a military jet was in October of 1997. He flew in the front seat of an F-15D Eagle. Some years ago I worked at Northrop doing R&D on an electronic counter measures package for an earlier version of this aircraft. This system involved many advanced components and circuit techniques for that time. While developing new microwave technologies we would build prototype MICs (microwave integrated circuits) on an alumina substrate. There was a tuning technique used at lower frequencies, involving small adjustable capacitances created and adjusted by twisting two pieces of insulated wire together. What were these adjustable capacitors called? There was a somewhat similar technique used on MICs too. Please describe it. No calculating this month, just dusting off old memories.

Reply to Butch Shadwell at b.shadwell@ieee.org, 904-223-4510 (fax), 904-223-4465 (v), 3308 Queen Palm Dr., Jacksonville, FL 32250-2328. (<http://www.shadtechserv.com>) The names of correct respondents may be mentioned in the solution column.

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 indus-

tries, and surf different web sites. So if you see any interesting meetings or conferences please send me the notice or the URL. To keep the list manageable I have limited it to the next six months.

Jim Anderson james-w-anderson@ieee.org

March 7 - 9, 2007

9th Annual International Conference - SMALL FUEL CELLS for Portable Applications
<http://www.knowledgefoundation.com/>

March 13 - 16, 2007

Power Systems Conference
Advanced Metering, Protection, Control, Communication, and Distributed Resources
Madren Center, Clemson, University, South Carolina
<http://www.ces.clemson.edu/powsys2007/>

March 26 - 28, 2007

10th Communications and Networking Simulation Symposium (CNS 2007)
As part of Spring Simulation Multiconference 2007 (SpringSim 2007)
Norfolk, Virginia
<http://www.scs.org/confernc/springsim/springsim07/cfp/cns.htm>

March 26 - 30, 2007

Fourth High-Performance Grid Computing Workshop in conjunction with International Parallel and Distributed Processing Symposium - IPDPS 2007
Long Beach, California
<http://www.cs.unb.ca/profs/aubanel/hpgc/>

April 4-5, 2007

Magnetics 2007
Chicago, IL - Lincolnshire Marriott Resort
http://www.magneticsmagazine.com/mag_conf_index.htm

April 16 - 20, 2007

IEEE 23rd International Conference on Data Engineering (ICDE 2007)
The Marmara Hotel, Istanbul, Turkey
<http://www.icde2007.org>

April 17 - 20, 2007

2007 IEEE Radar Conference
Westin Hotel, Waltham, MA
<http://www.radar2007.org/>

May 3 - 5, 2007

IEEE International Electric Machines and Drives Conference, Call for Papers
Antalya, Turkey
http://www.ieee.org/portal/cms_docs_pes/pes/subpages/bullseye-folder/July06/July-CFP_IEMD-C11.pdf

May 4, 2007

IEEE Long Island Systems, Applications and Technology Conference - LISTA 2007
Farmingdale, NY
Dr. Charles Rubenstein c.rubenstein@ieee.org

May 14 - 17, 2007

7th IEEE International Symposium on Cluster Computing and the Grid
Rio de Janeiro, Brazil
<http://ccgrid07.lncc.br>

May 16 - 17, 2007

IEEE Conference on Technologies for Homeland Security
Holiday Inn Select BOSTON-WOBURN, Woburn, MA
www.ieeehomelandsecurity2007.org

May 21 - 25, 2007

10th IFIP/IEEE International Symposium on Integrated Network Management
University of Federal Armed Forces Munich, Germany
Call for Papers, Panels, Tutorials, Workshops
www.ieee-im.org

May 21 - 27, 2007

Second IEEE/IFIP International Workshop on Business-driven IT Management (BDIM 2007)
In conjunction with IEEE/IFIP Integrated Management (IM 2007),
Munich, Germany
<http://www.businessdrivenitmanagement.org/bdim2007/>

June 6 - 7, 2007

Battery Power 2007
Denver, Colo
<http://www.batterypoweronline.com/>

June 14 - 15, 2007

Fuel Cell 2007
Rochester, N.Y
www.fuelcell-magazine.com/fc_2007conf_index.htm

June 14 - 15, 2007

10th International Conference BIODETECTION TECHNOLOGIES 2007 - Technological Responses to Biological Threats
More information to follow.

June 18 - 20, 2007

IEEE International Conference on Distributed Computing in Sensor Systems
Santa Fe, New Mexico
<http://www.dcss.org/>

June 24 - 28, 2007

IEEE Power Engineering Society General Meeting, Call for Papers
Tampa Convention Center and the Marriott Waterside Hotel in Tampa, Florida
<http://submissions.miracd.com/PESGM2007/Login.asp>

June 24 - 28, 2007

The IEEE International Conference on Communications (ICC 2007)
Glasgow, Scotland
<http://www.ieee-icc.org/2007/>

June 24 - 29, 2007

2007 IEEE International Symposium on Information Theory (ISIT2007)
Acropolis Congress and Exhibition Center - Nice, France
<http://www.isit2007.org/>

July 1 - 4, 2007

IEEE Symposium on Computers and Communications (ISCC'07)
Aveiro, Portugal
<http://www.comsoc.org/iscc/2007/>

July 1 - 5, 2007

Power Tech 2007
Lausanne, Switzerland
http://www.ieee.org/portal/cms_docs_pes/pes/subpages/bullseye-folder/July06/Power_and_Energy_Magazine_Ad.pdf

July 12 - 15, 2007

5th International Conference on Politics and Information Systems, Technologies and Applications (PISTA 2007)

Orlando, Florida

[http://www.cyber-](http://www.cyber-inf.org/imsci2007/website/default.asp?vc=4)

[inf.org/imsci2007/website/default.asp?vc=4](http://www.cyber-inf.org/imsci2007/website/default.asp?vc=4)

July 16 - 19, 2007

Power Africa

University of the Witwatersrand, Johannesburg, South Africa

http://www.ieee.org/portal/cms_docs_pes/pes/subpages/bullseye-folder/July06/Aug-power-africa_cfp.pdf

WANTED

Wanted – Photographer

As you can see from the banquet pictures in the December 2006 newsletter, we need some help in the photography department for our events. If you are interested to help out, please email Jennifer Ng at jng@ieee.org

Wanted - Articles on “How I became an engineer.”

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, Jennifer Ng, (jng@ieee.org) your story on how you became interested in Engineering and chose this profession. Every month, we will try to feature an article in the newsletter.

Wanted - Fellow and Senior Members

If you are an IEEE Fellow or a Senior Grade Member, and you are willing to act as a reference for members aspiring to be upgraded to Senior Member status, please contact Chuck Button at chuckbutton@ieee.org

Questions and Answers

Q: Who are the NH Executive Committee members?

A: The 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 about suggestions for the newsletter?

A: The Editor, Jim Anderson can be reached at james-w-anderson@ieee.org or Jennifer Ng, the co-editor, can be reached at jng@ieee.org

Q: How can I be 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 at http://www.ieee.org/organizations/rab/md/smpr_ogram.html. The NH IEEE Section can support your application and you will need two additional Senior or Fellow grade members as references. Please contact Chuck Button (NH Section Secretary) at chuckbutton@ieee.org for more details.

Q: How do I start a new society chapter?

A: Please refer to this site for details on eligibility and requirements: <http://www.ieee.org/portal/pages/tab/cha/newchap.html>

Q: Why can't I read the newsletter on my web browser?

A: Try downloading the latest free version of Adobe Reader at

http://www.adobe.com/go/gntray_dl_get_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.

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