



THE OBSERVER

February 2007

Published by the New Hampshire Society of Professional Engineers

A WORD FROM THE PRESIDENT

By: Roch Larochelle, PE
NHSPE President

Happy New Year!...but somehow the 70 degree weather in early January does not seem right for New England. I must admit however that I had been concerned for our recent tour of the UNH Stormwater Center that was scheduled in mid-December but the weather really cooperated to make it a very successful event. There were a total of 50 attendees that were a bit chilled by the end of the tour but it could have been much worse. In any event, I would like to offer a special thanks to the staff at the Center for a great and informative event. We liked the event so much and in consideration of the ever-changing stormwater technology devices hitting the market, we are now working to add this tour and research

*A Word From The President
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NH QBS Coalition Moves into Future

The New Hampshire QBS Coalition is moving forward, with renewed efforts to promote qualifications based selection of design professionals throughout the state. Over the summer, the QBS Coalition leadership convened participating professional organizations to discuss the mission of the coalition, and to establish a game plan for reinvigorating the organization. The result was clear: there is an ongoing strong commitment among design professionals to continue to educate users of professional services on the significant value of using the QBS process. The NH QBS Coalition was originally established in 1994.

The QBS Coalition now includes engineers, architects, surveyors, and landscape architects: licensed design professionals involved in services for the built environment for public and private clients. The coalition is actively supported by the fol-

lowing broad group of professional organizations:

- NH Society of Professional Engineers
- American Institute of Architects - NH
- American Council of Engineering Companies - NH
- Structural Engineers of NH
- American Society of Civil Engineers - NH Section
- Granite State Landscape Architects

The QBS Coalition renewed its contact to every NH municipality, school district, municipal utility, and most colleges and hospitals with a letter and tri-fold describing what QBS is, the QBS process, and the QBS Coalition. The tri-fold is a targeted presentation of why Qualifications

*NH QBS Coalition Moves into Future
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UNH Stormwater Center

On December 12th a tour and luncheon workshop was held at the University of New Hampshire (UNH) Stormwater Center. As explained in the Center's 2005 Data Report; the "Center was established in 2004 to help land use decision makers develop stormwater management programs to protect water quality. The Center is supported by the Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET), a partnership of UNH and the National Oceanic and Atmospheric Administration (NOAA).

It is housed within the University's Environmental Research Group.

Center researchers operate a field facility that evaluates the effectiveness of different stormwater treatments in a side-by-side setting, under strictly controlled conditions. It is the only testing facility of its kind in the nation. Alongside evaluation of conventional treatment systems, researchers are also examining innovative stormwater management approaches such as a gravel wetland

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Members, don't forget to include your email address with your NSPE member profile! We're now distributing meeting notices via the web and email only. Update your profile online at www.nspe.org or email your address to membership@nhspe.org to be included on our distribution list.

Thanks!

Women in Science and Engineering, Campbell High School

Mr. Patrick Kaplo affectionately calls himself a "recovering engineer." He practiced Mechanical Engineering for four years and has since changed his career path. He currently teaches science at Campbell High School in Litchfield, New Hampshire. His courses include Physics and Principles of Engineering.


Shortly after beginning his teaching career, Mr. Kaplo noticed female students are less likely than male students to enroll in science and math courses and they typically show less enthusiasm for problem-solving and hands-on applications. Consequently, he began a student group called "Women in Science and Engineering" to spark interest in engineering among female students. He hosts bi-monthly meetings during which he and the students conduct experiments, work on design projects (such as a CO2 fire extinguisher-powered snow vehicle), work on informational posters and bulletin boards that highlight gender issues in the physical sciences, and discuss topics of interest (including details for a planned trip to an engineering college).

Numerous New Hampshire school programs and regional competitions have been established to allow students to explore design and problem-solving concepts; however, Mr. Kaplo's initiative takes one more step by exploring the male/female ratio, and the lack of interest among some female students. It is true that women are a minority in many of the engineering disciplines, so "kudos"

to Mr. Kaplo for trying to combat this imbalance at the high school level.

I recently had the opportunity to speak to Mr. Kaplo's "Women in Science and Engineering" group, in response to his inquiry to NHSPE. Six women, mostly juniors and seniors, came to the meeting. I started the discussion by asking them what they thought "engineering" was. I saw a few shrugs and then a few of them started discussing their physics class and how "wild" they think it is to be able to "see" physics every day. We also discussed what types of learners and thinkers they are (memorization versus problem-solving, etc.) and I shared my educational and career paths with them. They were definitely curious about everything we discussed and they were particularly interested in the rock core samples I showed them. The students were gracious for the time I spent with them and we plan to meet again soon. I intend to show them specific project examples of plans, reports and other doc-

uments next time we get together.

I would like to assist Mr. Kaplo with coordinating more guest speakers. Specifically, we're looking for female volunteers from engineering disciplines other than Civil Engineering. Please contact an NHSPE Board member if you are interested, or contact me directly at Adunstan@jgieastern.com. It's a small time commitment, but I promise you'll find it rewarding and you'll leave a lasting impression on young female students, who may pursue engineering as a result of your discussion and donation of your time. Think back to high school - don't you wish someone had explained what "engineering" was when you were applying to colleges, rather than just saying, "if you're good in Math and Science, you should try Engineering"? Let's support Mr. Kaplo's attempt to create a more balanced male/female ratio in engineering disciplines, starting at the high school level. 

Submitted by Alicia Dunstan, PE

THE OBSERVER

The Observer is published quarterly by the New Hampshire Society of Professional Engineers for its members. Its purpose is to inform members of NHSPE activities and related topics.

Address all correspondence to the *Editor*:
Erin Wood, P.E.
c/o Haley & Aldrich, Inc.
340 Granite Street, 3rd Floor
Manchester, NH 03102
(603) 391-3321 - phone
(603) 391-3371 - fax
ewood@HaleyAldrich.com

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NHSPE JOHN ALGER MEMORIAL SCHOLARSHIP UPDATE

Our annual State Scholarship Program for the spring of 2007 is well underway but needs your help. We sent out letters to over 250 engineering firms in New Hampshire as well as a similar amount to state representatives (in honor of John Alger), requesting donations to support a truly worthwhile effort. Currently, eight combined firms and individuals have generously donated for a cumulative total of \$1,100, far from our previous track records. Donations have ranged from \$50 to \$250. The donation amount does not matter; I'm a firm believer in small donations from many donors, rather than large donations from few.

The firms and individuals supporting the scholarship program thus far include, in no particular order: Lee Carroll, David Gates, Rep. Carolyn Gargas, RW Gillespie & Associates, GZA GeoEnvironmental, Meridian Land Services, CLD Engineers, and JGI Eastern.

As part of a cooperative effort between professional engineering societies, Mr. Fred Douglas, P.E. of ASCE-NH is sending scholarship applications to our local and regional high schools and guidance departments as well as to our state uni-

versities for posting and circulation by the engineering departments. April 6, 2007 will mark the deadline for scholarship applicants. Applications will be reviewed by mid-April and notifications will be mailed thereafter.

The number of scholarship applicants, since program inception in 2001, is as follows:

| Year | Number Applicants | Number Scholarships | Scholarship Amount |
|------|-------------------|---------------------|--------------------|
| 2001 | 5 | 1 | \$500 |
| 2002 | 12 | 1 | \$1,000 |
| 2003 | 50 | 2 | \$1,000 |
| 2004 | 85 | 3 | \$1,000 |
| 2005 | 60 | 3 | \$1,000 |
| 2006 | 45 | 4 | \$1,000 |
| 2007 | ? | ? | \$1,000 |

So far we'll only be able to fund one \$1,000 scholarship for the 2007 season, so please consider supporting our noble cause if you have not already. Many thanks to those who generously donated, and the good news is - there's still a lot of time to contribute!!! Please send your donations to "NHSPE, State Scholarship Program, PO Box 1343, Concord, NH, 03302-1343." ☎

Submitted by Larry Dwyer, PE

JOINT SOCIETY UPDATE

Perhaps one of the most exciting initiatives I have been involved in for some time has been the planning of a new Annual Joint Society Conference for this coming October 2007. This event follows on the heels of a very successful NHSPE regional program that was held last year in Portsmouth that many of you may have attended and is intended to provide a regular forum that crosses all disciplines of engineering. In that respect, putting together a program that will be intriguing to all types of engineers has been both challenging and exciting, however with the help of a great planning committee, a number of early morning meetings and a lot of coffee, we have finally settled on a venue that we feel will be great way to bring all of us together to share our collective experiences. Mark your calendars now for **October 11, 2007** for the 1st Annual Joint Engineering Society Conference to be held at the Yard's Executive Court Conference Center in Manchester, NH. The current program will offer a total 6 PDH's and will cover topics from Team Building and Knowledge Management to a discussion on Technology and its impact on society and OEM/Disaster Response initiatives. Look for the preliminary program at the upcoming Engineers Week Banquet.

I know this may be premature but I would like to thank the planning committee for their willingness to actively participate and "drop the borders" so to speak to put a great program together. Current members of the planning committee include various individuals from ASCE, IEEE, SENH and NHSPE, which, to date, has provided a wonderful cross-section of the engineering community and a wide range of ideas and interests. If anyone would like to get involved in the planning of this or future events, please contact me directly at rochl@cldengineers.com. I am looking forward to seeing you all at the E-Week Banquet in February and then again in October for this event. ☎

*Submitted by Roch Larochelle, PE,
NHSPE President (2005-2007)*



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A WORD FROM THE PRESIDENT

Continued from Page 1

update to our list of regular annual updates, so keep an eye out for future notices.

Other upcoming events that you should be aware of can be found on the activities calendar on the back of the Observer; however there are a couple of items that merit discussion here. Perhaps one of the biggest annual events NHSPE currently organizes is the Engineers Week Banquet. This is a true joint society and cross-discipline event that is a great time to get re-acquainted with friends and share an evening of awards and presentations with peers. Early notices have already been sent out to our membership and to the engineering community in general but if you don't already know, mark your calendars now for **Thursday, February 22nd** for the 56th annual Engineers Week Banquet and Awards Ceremony that will be held at the Center of New Hampshire in Manchester. With our traditional awards for Engineer of the Year, Young Engineer of the Year, and Top Math and Science Teachers as well as the 2006 MATHCOUNTS winner, this year's banquet is shaping up to be a great event as always. I am also very pleased to announce our keynote speaker for this year will be the very renowned Dr. James C. Rautio, Ph.D., a fellow of IEEE and the president and founder of Sonnet Software. He will present the life and times of Dr. James Clerk Maxwell who was leader in the development of the basic laws of electricity and magnetism.

As always, our Board has been very busy this year working on a long list of regular programs and events in an effort to provide continual growth and educational opportunities for our membership, students, and the entire engineering community. We are also pleased to report that we recently helped to sponsor UNH's Steel Bridge competition as well as the UNH-Sponsored "Students without Borders" program which, in cooperation with the non-governmental organization, Rain for the Sahel and Sahara, will be taking a group of UNH students to Niger (West Africa) in January to design and install a water irrigation system to help aid this developing country. I would also like to give very special thanks to Mr. Eric Reitter, P.E. of CMA Engineers in Portsmouth, an NHSPE member who has volunteered his own time to travel with the student group as their professional mentor and advisor. NHSPE remains very proud to represent and support this important program.

Once again I invite any members to join our regular board meetings which are held on the 3rd Thursday of every month at the CLD Manchester Office beginning at 6pm. We have a number of committee positions for new and existing programs that are open or if you care just to sit and listen to what your board is working on that is fine too! I hope you all have had a wonderful holiday and took the opportunity to share it with family and friends, and given the general lack of snow in this region, I hope you have your rock skis out! ☺

NH QBS Coalition Moves into Future

Continued from Page 1

Based Selection is in the interests of owners of projects, creates the most long term value, and best assures project success. The brief four step QBS process is also summarized, and readers are directed to the QBS Coalition for additional educational support, and the QBS website - www.NHQBS.org.

The Coalition also responded to a concern about a recent State of NH engineering services contract that was procured outside of the QBS process. QBS is required by State statute for State contracts. The problem was characterized by Norm Cote, P.E., past chairman of the Coalition, and after communications with State representatives, a meeting was held in November with George Bald, director of the NH Department of Resources and Economic Development. Current QBS Coalition co-chairman Art Guadano, AIA and ACEC-NH president Chris Mulleavey, P.E. represented the QBS Coalition at the meeting. The meeting was substantive and successful in highlighting the issues. The profession and the QBS Coalition will monitor further procurement actions over all state agencies.

After many years of service by past Coalition leaders (including Norm Cote, P.E. - chairman, Don Blanchard, LLS - treasurer, Mike Desrochers, P.E. - secretary), the baton was passed to:

- ☐ Bill Straub, P.E. (NHSPE) and Art Guadano, AIA (AIA-NH) co-chairs (an engineer and architect, as originally conceived when the Coalition was established)
- ☐ Jim Karmozyn, P.E. treasurer (SENH)
- ☐ Greg Grigsby secretary (GSLA)

If anyone becomes aware of a QBS challenge, please contact any member of the QBS Coalition. The Coalition looks forward to constructively promoting QBS, and being involved with other professional organizations in NH in defending the QBS process as projects are developed. ☺

*Submitted by William Straub, PE,
NHSPE Past President*

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UNH Stormwater Center

Continued from Page 1

and an all-porous asphalt parking lot."

The event commenced at the field site with opening remarks and a general overview. This was followed by splitting participants into three groups, with site tours lead by Dr. Robert Roseen - Center Director, Dr. Thomas P. Ballestero - Lead Scientist, and James Houle - Research Facility Manager. The site is comprised of a closed drainage system that collects runoff from approximately 9 acres of parking lot to a distribution chamber where it is split equally amongst the stormwater treatment devices being tested. Effluent from each device is piped to a central sampling gallery. Each of the treatment devices is sized to address a Water Quality Volume (WQV) that targets a rainfall runoff depth equivalent to 90 percent of annual volume of

rainfall, or one inch of rainfall.

Following the field review, a bus transported participants to Gregg Hall where a working lunch and presentation was held. Dr. Roseen and Dr. Ballestero relayed results that have been obtained to-date from the Center's studies for no less than 12 stormwater treatments. Treatment methods include hydrodynamic separation, filtration, infiltration, wet and dry detention, bioretention, gravel wetland, surface sand filter, stone riprap swale, and vegetated swale. To grossly generalize, the commercially available mechanical devices do a poor job of removing pollutants, whereas infiltration, a wet retention pond, and the gravel wetland were the best performers. These treatments all do an effective job of removing nitrate (NO₃-N),



Dr. Robert Roseen leads a site tour at the UNH Stormwater Center

total zinc (Zn), and total petroleum hydrocarbons-diesel (TPH-D), in addition to removing total suspended solids (TSS). However, during warm summer months, ponds elevate the temperature of already heated surface runoff causing "thermal pollution"

that negatively impacts macro invertebrates and cold water fish.

A wealth of additional information about the Center, including published results, can be found at www.unh.edu/erg/cstev/.

*Submitted by
Daniel Hudson, PE*

OTHER EVENTS OF INTEREST

February 2, 2007

**ASCE-NH Younger Member Group
Hockey Outing**

February 15, 2007

**NHDES Land Resource Management
Workshop**

February 23, 2007

MeSPE Annual Symposium

March 21, 2007

**NHDES Land Resource Management
Workshop**

April 10, 2007

**NHDOT / ACEC-NH Technical Transfer
Conference**

*See www.nhecal.org
for additional details.*



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NORTHEAST REGIONAL MEETING

The NSPE Regional Meeting this year was sponsored by the New York State Society of Professional Engineers and was held October 19th through the 21st in beautiful Saratoga, New York at the Saratoga Hotel and Conference Center. Approximately 150 engineers from throughout the region were in attendance for three days of networking, social events, educational programs and NSPE business. Nearly all areas of the region (which includes Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont) were represented. NHSPE President Roch Larochelle, P.E. and Vice President Matthew Low, P.E. were in attendance representing the NH Society.

Thursday and Friday included a broad range of technical, administrative and governance seminars offered simultaneously throughout the conference center. Some topics included: Recycled Plastic Bridges, Continuing Education Roundtable, Partnering Successes - The New NSPE, Ethics of Professional Engineers and others. All sessions were well attended and generated enthusiastic dialog and question / answer sessions. As one can imagine, the topic of NY state continuing education requirements was a hot

issue regardless of which session you were attending!

The Friday luncheon was highlighted by a keynote address from Mr. Bernard (Bernie) Berson, P.E., LS, PP, F.NSPE, NSPE President-Elect. Bernie's address was uplifting and focused on NSPE in the years to come, increasing membership and the importance of engineers being involved in the benefits of NSPE. It appears that the national organization will have strong leadership in the coming years and keep the momentum generated in recent years rolling.

Saturday was highlighted by the Regional Meeting and the announcement by Mr. Brad Aldrich, P.E. of the Vermont Society that he will be running for the position of national President-Elect. The NY society did a wonderful job of planning the event, and, as our 2005 NH planning committee can attest, this is not an easy task. The NY society had high expectations to live up to after the success of the 2005 Regional Meeting held in Portsmouth. Our neighbors in Maine have volunteered to host the 2008 Northeast Regional Meeting, likely to be held in the Portland, Maine area. 

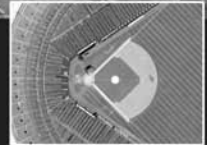
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NHDES UPDATE




MATHCOUNTS 2006-2007

As of the end of December, we have 55 schools registered for the MATHCOUNTS program in New Hampshire. Hopefully, there will be a few additional registrations still to come.

The Regional Contest for the Plymouth Region is scheduled for February 3, 2007. The Keene Region will have its contest on February 9, 2007 (snow date February 16, 2007). Dates for the other four regions will be established shortly.

The State Competition will be held at Plymouth State University on Saturday, March 10, 2007 (snow date 31 March 2007). Volunteers who would be able to help with proctoring or the scoring of the competition will be greatly appreciated.


The National Competition will be held in Fort Worth, Texas on Friday, May 11, 2007.

Again this year, we are soliciting contributions to help with the cost of the MATHCOUNTS program. All contributions are tax deductible and can be made to NHSPE MATHCOUNTS and sent to: "NHSPE MATHCOUNTS Program, P.O. Box 1343, Concord, NH 03301-1343." 

Submitted by Ben Pratt, PE

On November 8th, a luncheon meeting was held at the Capital Center for the Arts in Concord entitled "NHDES Site Specific & Wetlands Programs Update on Proposed and Adopted Rules." Ridge Mauck, P.E. of the NHDES Site Specific Program (a.k.a. Alteration of Terrain) spoke about draft rules that would alter many of the current stormwater permitting requirements. Although the sizes and types of developments that require permitting have not changed, a number of required best management practices (BMPs) for stormwater treatment will be included in the new rules. These draft rules are not an option for NHDES; they are driven by the USEPA to be in compliance with the Clean Water Act's Phase II NPDES regulations and are required if NHDES is to maintain authorization to approve NPDES permits and issue 401 Water Quality Certifications. Some of the added BMPs are the result of recent BMP performance studies conducted by the University of New Hampshire Stormwater Center as well as by other entities. One significant addition to the rules is the requirement for the owner to continue operation and maintenance of BMPs after construction is completed. Another significant addition to the rules is the inclusion of stricter requirements for winter construction (October 15th through May 15th). The draft rules continue to weave their way through the adoption process, are currently in legal review,

and may be legislated this session if all goes well. The draft rules have not yet been posted for public review. See the current rules at www.des.state.nh.us/rules/pdf/env-ws_415.pdf.

Collis Adams, of the NHDES Wetlands Bureau spoke about recently adopted rules that include an in-lieu fee option, whereby a fee is assessed for wetland impacts when those impacts cannot be otherwise avoided or mitigated. Traditionally, when wetlands are to be impacted by a development, the developer would be required to create new wetlands and/or to preserve upland areas to offset the loss. However, these methods are sometimes problematic in that it is difficult to create wetlands that replicate natural conditions and preserving uplands doesn't provide the same functions and values that the original wetland provided. Therefore, the in-lieu fee program is intended to pool monies on a watershed by watershed basis for protection and conservation of natural wetlands. It is important to note that the in-lieu fee option is not a substitute to avoidance and minimization measures, which take precedence over any form of mitigation. The revised rules can be viewed at www.des.state.nh.us/Rulemaking/adopted2006/Env-Wt800amdILF_INT_Adopted.pdf. 

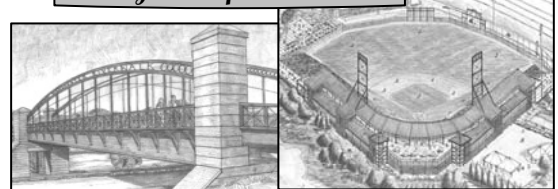
Submitted by Daniel Hudson, PE



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431-6196
pschmidt@cmaengineers.com

PRESIDENT-ELECT

Daniel Hudson, P.E.,
668-8223 x162
danh@cldengineers.com

VICE PRESIDENT

Matthew Low, P.E.,
669-5555
mlow@hta-nh.com

SECRETARY

John DiGenova, P.E.,
391-3307
jdigenova@HaleyAldrich.com

TREASURER

Lawrence Dwyer, P.E.,
647-9700
LDwyer@jgieastern.com

STATE DIRECTORS

Robert Couture, P.E.,
659-2517
Robert@rlc-nuclear.com

Phillip E. Decker, P.E., Esq.
766-1910
phil@biz-patlaw.com

STATE DIRECTOR/
YOUNGER MEMBERS REP./
UNH LIAISON

Veronica Thibodeau Carter,
P.E., 228-1122
vthibodeau@hltturner.com

ENGINEERS WEEK

George Fredette, P.E.,
647-8700
gfredette@sfceng.com

LEGISLATION

Franklin Tilton,
528-8466
ftilton@earthlink.net

MATHCOUNTS

Ben Pratt, P.E.,
588-6740
bpratt@conknet.com

MEMBERSHIP

membership@nhspe.org

SCHOLARSHIP

Lawrence Dwyer, P.E.,
647-9700
LDwyer@jgieastern.com

STATE DELEGATE

Matthew Purcell, P.E.,
646-1499
matthew.r.purcell@
dartmouth.edu

OBSERVER EDITOR

Erin Wood, P.E.,
391-3321
ewood@haleyaldrich.com

NSPE Web Site www.nspe.org

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MARK YOUR CALENDARS

February 1, 2007

**An Update on Fire & Building Codes
and Trades Licensure in NH**

February 22, 2007

Engineers Week Banquet and Exhibition

March 10, 2007

MATHCOUNTS State Competition

March 22, 2007

**NHSPE Social Meeting at the
Redhook Ale Brewery**

April 2007

New PE Dinner

June 2007

**NHSPE Annual Meeting and
Induction of Officers**

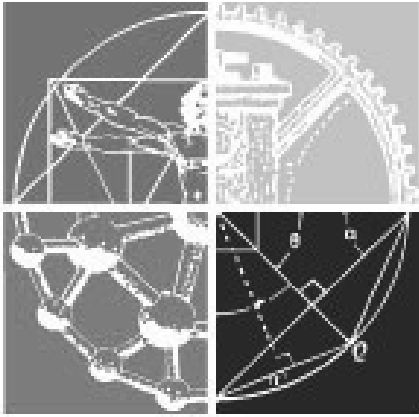
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The New Hampshire engineering community is preparing for National Engineers Week on February 18-24, 2007. The highlight of this year's events in New Hampshire will be an award banquet and exhibition held on Thursday, February 22, 2007 at the Radisson Hotel at the Center of New Hampshire located in Manchester.

You can catch up with old acquaintances; celebrate the achievements of the years' best; and enjoy the words of one of New Hampshire's best-known engineers. The evening will begin at 5:30 pm with an exhibit display of vendors and social gathering, followed by dinner at 7:00 pm. The program includes the Engineer-of-the-Year and Young-Engineer-of-the-Year award presentation, and the introduction of the 2006 Mathcounts winner.

Our keynote speaker is Dr. James C. Rautio, Ph. D. Dr. Rautio, a fellow of the IEEE, is the president and founder of Sonnet Software, a High Frequency Electromagnetic Software design firm. Dr. Rautio will present the life of Dr. James Clerk Maxwell (the theoretical physicist, who expressed the basic laws of electricity and magnetism,) from the viewpoint as a microwave engineer.

Visit www.nhspe.org or www.nh.gov/jtboard/pe.htm to download a reservation form for the New Hampshire Engineers Week Awards Banquet and Exhibition. If you have a question about your participation at the event, contact Craig Bailey at (603) 595-0170, or by email: craig@bailey.eng.pro





**56TH ANNUAL ENGINEERS WEEK
BANQUET AND EXHIBITION**

*Thursday, February 22, 2007
Radisson Hotel
The Center of New Hampshire
Manchester, New Hampshire*

AGENDA

- 4:00 pm Exhibit set-up
- 5:00 pm Exhibits open
- 5:30 pm Social hour
Cash bar and Hors d'Ouvres
- 7:00 pm Buffet dinner
- 8:00 pm Presentation of Awards
Keynote Presentation by Dr. James C. Rautio, Ph. D.
"The life of Dr. James Clerk Maxwell, from a
microwave engineers perspective"
- Cost: \$40.00 per person
Student rate \$25.00 per person
- RSVP: By February 9, 2007.
Sorry, no shows will not be refunded.

***If your company/firm would like to place an ad in this years Engineers Week program please contact Craig Bailey at 603-595-0170. email: craig@bailey.eng.pro ***

RESERVATION FORM

(Name & company will be printed on name tag)

Name _____
 Company _____ Phone _____
 Address _____
 City _____ State _____ Zip _____
 Guest _____
 Company _____
 Guest _____
 Company _____

Please reserve _____ spaces at the 56th Annual Engineers Week Banquet & Exhibition. I am enclosing a check made payable to NHSPE for \$ _____.

Please mail form with payment to:
 Cecile Baldassara
 SFC Engineering Partnership, Inc.
 25 Sundial Avenue, Suite 205W
 Manchester, NH 03103-7230
 Phone (603) 647-8700 Fax (603) 647-8711
 e-mail: cbaldassara@sfceng.com

Directions to the Radisson Hotel, Manchester NH

From Points North of Manchester: from 293 south take exit 6. The exit will circle around and over the Amoskeag Bridge. Stay right, take first exit (Canal Street). Follow Canal Street about one mile (8 lights) to Granite Street (Bus Terminal is on your left). Go left on Granite Street. Hotel garage in on the left.

From Points South of Manchester: from 293 north take exit 5. Turn right off ramp, through two set of lights, hotel garage is on the left.