

The Granite State Geologist

Newsletter of the New Hampshire Geological Society
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<http://nhgs.org/NHGS/>



Time flies when you're having fun!

Tim Allen

Issue number 1 of the New Hampshire Geological Society's newsletter (at that time it did not yet have its current name, *The Granite State Geologist*) was published in March 1992. With the next newsletter (number 36), I will have been serving as editor and publisher of *The Granite State Geologist* for a full ten years. I was elected to the NHGS Board of Directors as a Member-at-Large at the Society's annual meeting in October 1992, and have served on the Board since.

I am a New Hampshireman through-and-through, and a granite geologist to boot, but the time has come for me to step down from the Board of Directors, and as editor and publisher of *The Granite State Geologist* as well. In order to make time for some new responsibilities it is necessary that I give up (at least for the time being) some of the old.

These new responsibilities are very exciting. To start, Keene State College has been successful in winning funding from the National Science Foundation to acquire a fully-automated 4-kilowatt wavelength-dispersive X-ray fluorescence spectrometer, with spot analysis and element mapping capabilities, for conducting chemical analysis of rocks and other samples; I am the Principal Investigator for this \$240,000 project. In addition, a colleague and I have begun establishing a Stable Isotope Biogeochemistry Laboratory at the College. I need also to make more time for continued geological mapping in the Lake Sunapee area as supported by the US Geological Survey's EDMAP program, for my return to the role of Coordinator of KSC's Environmental Studies Program, for participation in the planning of KSC's \$18,000,000 Science Center addition and renovation project, and for my service on the recently established New Hampshire Board of Professional Geologists.

I fully intend to continue helping advance the science of geology in New Hampshire, and look forward to the ongoing success of the New Hampshire Geological Society (but we will need a new editor and publisher!)

News from the New Hampshire Board of Professional Geologists

The NH Board of Professional Geologists adopted its Administrative Rules, and is now accepting applications for licensure. The expiration of the grandfather period will come before you know it, so it's time now to get to work on your application and lining up your references. For further information contact Donna Lobdell, Administrative Secretary:

NH Joint Board of Licensure and Certification
57 Regional Drive
Concord, NH 03301-8518
Telephone: 603-271-2219
TDD Access: Relay NH 1-800-735-2964
Fax: 603-271-7928
email: dlobdell@nhsa.state.nh.us

Or you can download the application form from the web at <http://www.state.nh.us/jtboard/geo.htm>

The next meeting of the Board will be Friday, November 9, beginning at 8:30 am, at the offices of the Joint Board, 57 Regional Drive in Concord.

2001 Earth Science Week Annual Meeting: Citizen Earth Scientists and the Evolution Debate

Lee Wilder

The American Geological Institute has recently published a very interesting booklet entitled "Evolution and the Fossil Record". The authors have been very careful to present evidence that scientists have used to arrive at the current theory of evolution. The article does not preach any dogma but simply presents the scientific facts in a very interesting and readable format.

In light of the current evolution discussion making the news of late, those currently involved in the earth sciences should become informed as to the nature of this evolution debate.

For Earth Science Week 2001, we are fortunate to engage Sam Adams of the American Geological Institute

and current Editor-in-Chief for *GeoTimes*, as the featured speaker at our Annual Meeting, held jointly with the NH Council of Professional Geologists. He will discuss the historic context of relations between science and religion, the current status and significance of the debate, and how earth scientists can currently play a constructive role.

Sam has had a very active career in the Earth Sciences. With a PhD from Harvard in Geology, he worked with Anaconda, International Mineral and Chemical Corporation, and Newmont Mining; he also served as Department Head and Professor in the Department of Geology and Geological Engineering at Colorado School of Mine. He is a recipient of the John Wesley Powell Award from the US Geological Survey, and the William B. Heroy Jr. Award from the American Geological Institute.

2001 Earth Science Week Annual Meeting: Slate of Candidates

The NHGS Annual Meeting also features the election of officers for the coming year. The slate of candidates for 2002 includes:

For President: Leland (Lee) A. Wilder BA Geology, 1964, University of New Hampshire. MEd Administration and supervision, 1993, University of New Hampshire. Retired from teaching Earth-Space Science after 35 years in NH public schools; currently an adjunct professor in Earth-Space Science at Colby-Sawyer College and Public Outreach Coordinator for the NH Geological Survey. Member and Vice President of the Hopkinton Conservation Commission. Past President, and still currently a Director, of the NH Science Teachers Association. Past Secretary and current President of NHGS.

For Vice President: John M. Regan BS Hydrology, 1975, University of New Hampshire. Supervisor for the State Sites Section, New Hampshire Department of Environmental Services. Current NHGS Vice President.

For Secretary: David Wyman BA Geology, 1974, and BA Chemistry, 1974, University of New Hampshire. Field Operations Manager at Normandeau Associates, Inc., 1974-1981; President of Buoy Technology, Inc., 1981-present. Current NHGS Secretary.

For Treasurer: John M. Noble BS Geology, 1986, Rensselaer Polytechnic Institute. MS Hydrogeology, 1990, Syracuse University. Senior Hydrogeologist for

SECOR International, Inc. Also member of NHCPG, NGWA, and LSPA. Current NHGS Treasurer.

For Member-at-Large: Richard Bridge Moore BS Hydrology, 1975, University of New Hampshire. MS Geology, 1978, University of New Hampshire. Has worked for the US Geological Survey since 1979, first in upstate New York (3 years) and then New Hampshire (19 years and counting). He conducts research into the state's ground-water aquifers.

Write-in candidates for all positions are welcome.

Michael Robinette continues in the second year of a two year term as Member-at-Large.

Upcoming Events

Future meetings of the **NH Council for Professional Geologists** are scheduled for October 3, November 7, December 5, 2001 and January 2, 2002—the annual meeting featuring elections. All meetings are at the NHDES offices on Hazen Drive in Concord, beginning at 5:30 pm. Be there on time since the building is locked and you will need to be let in.

The **Capital Mineral Club's 38th Annual Gem & Mineral Festival** will take place on October 6 and 7, 2001, at Sunapee State Park, Rte. 103, Newbury, NH.

Help celebrate **Earth Science Week 2001**, October 7-13! (<http://www.earthscienceworld.org/>)

The **NHGS 2001 Annual Meeting** will be October 11—during Earth Science Week—with cocktails @ 6:00 pm and dinner @ 7:00 pm, at the Cat 'n Fiddle Restaurant on Manchester Street in Concord. For more information, contact Lee Wilder at 603-746-3205 or lwilder@bigfoot.com.

The **Geological Society of America's 2001 Annual Meeting, a "Geo-Odyssey,"** will be in Boston, November 5-8. Many interesting pre- and post-meeting field trips are planned. A special session honoring the late Half Zantop of Dartmouth College is scheduled for the afternoon of Monday, the 5th. For more information, go to <http://www.geosociety.org/>

The next meeting of the **NH Board of Professional Geologists** will be Friday, November 9, beginning at 8:30 am, at the offices of the Joint Board, 57 Regional Drive in Concord.

The NHGS/GSNH Summer 2001 Field Trip...

took place on Saturday, July 21. It was a beautiful mid summer day, and some 30 participants joined USGS staff Rich Moore, Greg Walsh, Stewart Clark and James Degan in visiting selected sites in the Pinardville and Windham Quadrangles. These sites were part of a larger NH fractured bedrock assessment recently conducted by the USGS. The trip leaders explained the use of remote sensing, geophysical techniques and well yield probability modeling to assess fractured bedrock aquifers. There was considerable interest in the techniques used and many good questions were discussed. A hearty thank you to the USGS staff (especially Rich Moore of the Pembroke office) and Jack Jemsek and John Noble (of the NHGS/GSNH) for organizing a very interesting summer geologic field trip.

The NHGS/GSNH Summer 2001 Family Picnic...

was held at Odiorne Point State Park, in Rye NH. Some 44 parents and children gathered for a beautiful summer day at the shore. Kites were flown, families visited the Seacoast Science Center, groups talked shop, and children searched the tide pools. After a clambake of lobsters, fresh corn on the cob, steamers, and salads, the NH Geological Society served all from a large cake, to celebrate the official establishment of the state's NH Geological Survey. As of August 18, 2001, the State of NH has renamed and reorganized the Office of the State Geologist, as the NH Geological Survey. State Geologist, David Wunsch and his family were present for the honors. Then an "expedition" set out for the tidal flats to search for the drowned forest of Odiorne Point. Coupled with a low tide, several of the ancient spruce stumps were found. Many thanks to David Wyman for organizing a great clambake and a fun family picnic.

The Billings Fund Awards Grant for Geological Field Work

The Billings Fund was established in 1996 in part to encourage geological field work and related research in the New England region. For the 2001 field season, a grant of \$835 was awarded to Sara Chmura, a student at the Buffalo State College in New York, for her project: "Comparative Detailed Mapping of Contrasting Types of Migmatite, Central Maine belt, Roxbury area, Western Maine." The Billings Fund is now inviting applications for student field work grants for the 2002 field season. One or more grants, probably in the range of \$500 to \$1000, will be awarded. Proposal guidelines and more

information about the fund can be found at the NEIGC web-site at <http://neigc.org/NEIGC/BillingsFund.html>

The Fund, operated under the auspices of the Mount Washington Observatory, is overseen by a committee consisting presently of NHGS members Tim Allen, Brian K. Fowler, and Mark Van Baalen (chair). The Fund welcomes additional contributions, which are tax deductible. Contributions to the Billings Fund may be sent in care of the Mount Washington Observatory, P.O. Box 2310, North Conway, NH 03860. For more information about the Billings Fund visit the NEIGC web-site, or contact Mark Van Baalen, EPS Dept., Harvard University, 20 Oxford St., Cambridge, MA, 02138; 617-495-3237, mvb@harvard.edu

From the Education Committee

What is happening in your local school? At what grade(s) are the students studying the Earth Sciences? Do you have children who are or will be studying in these classes? Are the teachers Earth Scientists? Or have they received adequate training in order that the classes are meaningful? Would like to see children from schools in your community involved in projects like that described above? Maybe upon checking, you find that the teacher could benefit from an opportunity to attend a workshop or conference in some aspect of Earth Science. Or perhaps some particular materials or supplies are needed to better support the teaching of Earth Science, in the classroom, laboratory or field. Maybe some funding would help with an Earth Science project. Please have the teacher check out the NHGS's Lincoln Page Professional Development Fund and Grant Program at our web site at: <http://nhgs.org/NHGS/>



NHGS Past President presenting an award of recognition to retiring State Geologist Gene Boudette at the gala 2000 Annual Meeting last October.



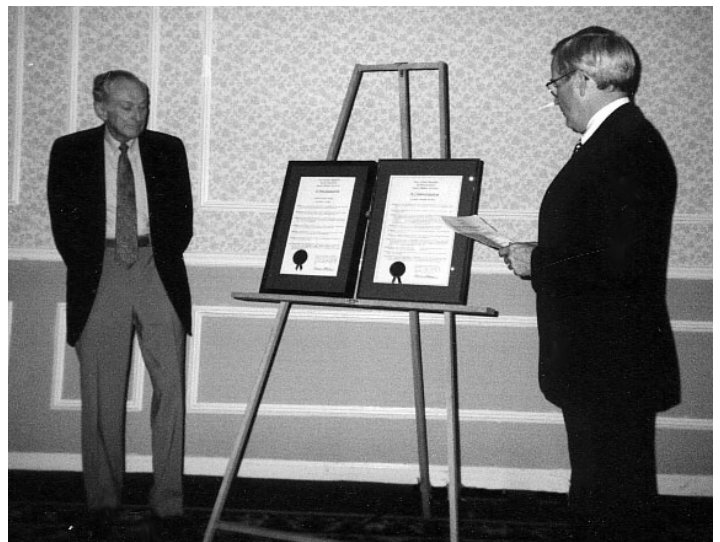
New Hampshire Geological Society
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NHGS News and Events

The broad **purpose of the New Hampshire Geological Society** is to advance the science of geology in New Hampshire. We hope to pursue this goal by contributing to public education, strengthening the role of geology in environmental concerns, and disseminating knowledge about the geology of the Granite State. Membership in the society is open to all, including professional geologists in all areas and interested lay people.

The NHGS is preparing a travelling **road-show kit** about the geology of New Hampshire. We need examples of New Hampshire minerals and rocks. Your contributions are needed—please send them to the NHGS at PMB 133, 26 South Main Street, Concord, NH 03301.

Position Available: Editor and Publisher of the NHGS Newsletter, *The Granite State Geologist*. Great potential for advancement. Remuneration immeasurable. Training available. Contact Lee Wilder at 603-746-3205 or lwilder@bigfoot.com; or Tim Allen at 603-358-2571 or tallen@keene.edu



Retiring State Geologist Gene Boudette being presented with certificates of recognition by Phil O'Brien, representing the New Hampshire Department of Environmental Services at the gala 2000 Annual Meeting of the NHGS last October. Photos by Lee Wilder.