

THE GREEN MOUNTAIN GEOLOGIST

QUARTERLY NEWSLETTER OF THE VERMONT GEOLOGICAL SOCIETY

SUMMER/FALL VOLUME 22 NUMBER 3

*The Vermont Geological Society
Fall Field Trip & Annual Meeting
A CENTRAL VERMONT QUARRY TOUR
Rock of Ages Quarry, Antique Verde Quarry
Dinner & Meeting at the Inn at Long Trail
SATURDAY OCTOBER 28, 1995, 10:00 AM*

See Inside For Details.

IMPORTANT ABSENTEE BALLOT INFORMATION INSIDE!

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VERMONT GEOLOGICAL SOCIETY
DEPARTMENT OF GEOLOGY
UNIVERSITY OF VERMONT
BURLINGTON, VERMONT 05405-0122

Send your change of address to the Treasurer at:

The GREEN MOUNTAIN GEOLOGIST
is published quarterly by the Vermont Geological Society, a non-profit, educational corporation, dedicated to the advancement of the study of geological sciences in Vermont and its locale.

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PRESIDENT'S LETTER

October 14, 1995

Dear Members,

This is my last President's Letter to you (*I heard that collective sigh of relief*). It has truly been a privilege to serve as the VGS President this past geologic blink in time. When I was first approached and asked to be more actively involved with the VGS, I thought I had too many things going on in my life; I really didn't think that I could spare the time or energy required to do a good job for the Society. Looking back now, I realize how much I would have missed by succumbing to that fallacy.

Yes, there definitely is a drain on one's free time occasionally, but not all too frequently. In fact, this is an organization that is fueled by member enthusiasm. My most difficult challenge has been to provide just enough of a nudge to the directional guidance system from time to time to keep things on track and running smoothly (I hope).

As you already know, Stephen Howe has moved on to opportunities in Illinois. The void created has been ably filled by Allen Carpenter. Allen is a CPA with an interest in rocks; how much luckier could we get in finding someone to fill the role as Treasurer?

As you will read on the following page, Ronald Parker, after contributing many years in a number of capacities for the VGS, is now working on his Ph.D in Texas. We will miss Ron and his seemingly endless flow of innovative ideas and thought provoking questions! Traditionally, in this organization, the Vice President has stepped into the President's role to provide a sense of continuity from one year to the next. Although this is not possible this year, thanks to Eric Lapp's efforts, Laurence Becker, our new State Geologist, has agreed to pull double duty by stepping forward and serving as our 1995-1996 President.

Nancy Keller is also stepping down after giving us two excellent years as Secretary. Thank you Nancy for so ably keeping track of the little details that might otherwise have become nothing more than fault gouge.

As my own term grinds to a halt, I will be stepping aside to provide background support as a Director on the Board. Also, I will continue to work with Stephen Wright in putting forth the GMG and other VGS publications (Look for *Vermont Geology #8* this coming year).

Now I am calling on you members to step forward and take a turn at the helm. We are in need of two nominees to fill the roles of Vice President and Secretary for the upcoming year. The pay is lousy, but the rewards and the feelings of self-satisfaction are high. The efforts required are not that great, and you'll have the satisfaction of knowing that you've helped pilot our organization towards the quarter century mark!

I hope to see you at our annual Fall meeting and field trip on Saturday the 28th. The quarry tour should be informative, and the hike up Deer's Leap should be magnificent. Of course the *Extra Stout* being served up with dinner at the Inn at Long Trail should put everyone in a great frame of mind for Society business! If you can't make the meeting, our Absentee Ballot for the 1995 election is enclosed as the inside back cover of this issue. please take a few minutes now to complete it. Write-in candidates are most welcome, as we will need to fill all vacancies. Please put it in the mail today so that your vote will count!

Thanks for a great year.

Sincerely,
Kent S. Koptiuch

Vice President's Farewell Address

Dear Fellow VGS Members,

It was with a touch of sadness and glee that I moved myself and my family to College Station, Texas in the early part of August. My move, to pursue a Ph.D. in environmental geochemistry at Texas A & M University, was a long time in the dream stage. After living in Vermont for thirteen wonderful years, I had (almost?) outgrown my flatlander origins. Now that I (along with Kris, Andy and Willie - and, yes, Garp, too) are settling into our new house and yard, Texas isn't looking at all bad (except for the fire ants). Since I have come to terms with sacrificing hockey and outcropping bedrock to the world of heat and flat land (ers), I have decided to say hello, and good-bye.

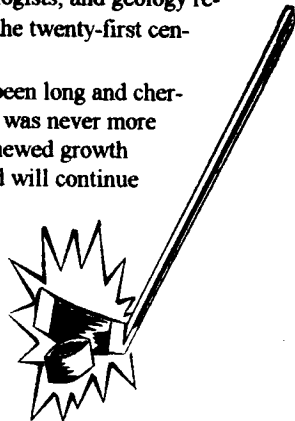
It has been customary that the Vice-President of the Vermont Geological Society assume the role of President after the passage of a year's time. I regret that I was not able to fulfill the duty of President. I am, however, relieved that it is no longer possible for me to be measured against the performance of current President Kent Koptiuch, who in my estimation has been among the more active and effective Presidents.

I am leaving Vermont at a time that, I think, foresees much growth in the geosciences - albeit growth that is less focussed in the traditional areas. As with almost every sector of society, downsizing and reduction in opportunities have required that every geologist expand into other areas of expertise -- computers, industrial hygiene, air quality, materials science, statistics, to name a few. Despite this entrenchment, growth is still apparent in Vermont's geologic scene. This sense of growth is a consequence of revitalization of geology education, both by the addition of new faculty to academic departments and the expansion of programs to increase support for K-12 earth science teachers. The progress on the new state bedrock map, in spite of setbacks at the U.S.G.S, continues to set the standard by which future Geographic Information System based mapping projects will be judged. The recently enhanced regulations for drinking water source protection, and the continued need for point and non-point source pollution management are also positive, long-term factors. All of these developments ensure that geologists, and geology related disciplines will be employed and employable well into the twenty-first century.

My association with the Vermont Geological Society has been long and cherished. I was always happy that that a good geology field trip was never more than a few months away. I expect that the VGS will see a renewed growth as well. Although I am now immersed in geology, I miss (and will continue to miss), those most Vermont of things: the rocks. So, take care of them for me and make sure that there is a faculty position open around there somewhere in a few years so that I can play hockey again.

Sincerely,
Ron Parker
rlp4045@geopsun.tamu.edu
"Eschew surplusage."

"I am leaving Vermont at a time that... foresees much growth in the geosciences - albeit growth that is less focussed in the traditional areas."



STATE GEOLOGIST'S REPORT

Laurence R. Becker

Vermont State Geologist and Director Vermont Geological Survey

In case you hadn't heard, Diane Conrad turned in her Vermont State Geologist badge which she'd worn since 1991 to spend part of her time in Salt Lake City, where she plans to launch a private consultation business. Among her numerous accomplishments, Diane helped to spirit passage of the Texas Low-Level Radioactive Waste Compact through the Vermont Legislature, and established the structure for placing new bedrock mapping into digital format. She continues to serve as Vermont's representative on the Texas Compact Commission, and consults with the Survey on radioactive waste policy issues.



As former VGS Technical Services Chief, Radioactive Waste Special Assistant and hydrogeologist, and Vermont State employee since 1981, I was designated the new State Geologist. My graduate work in geology, under the direction of Allen Hunt at UVM, focused on the shoreline dynamics of sediment transport in Appletree Bay of Lake Champlain. Now I'm getting a chance to use that experience as the Survey is managing a study of sedimentation in Missisquoi Bay, funded by the Highway Department. I received my undergraduate degree in geology from SUNY at Buffalo.

The Vermont Geological Survey itself has undergone some logistical transition. Diane Vanecek has moved her office from the second to the fourth floor of Center Building where she joins the rest of the Survey staff. Her telephone number remains the same (241-3608). For the first time ever, all of the maps are in one location!

The Survey has moved the placement of new bedrock data into GIS format from the experimental stage to production of maps based on protocols established in cooperation with the US Geological Survey. Open file and prototype digital maps and files are now available from VGS.

The VGS catalog of publications is receiving a long-overdue revising. Added to the list will be all available open-file reports, an index to Vermont towns (and in which VGS publication each is referenced), all available topographic maps, and more. It should be available in late September.

Included in the catalog is just-published Special Bulletin #14, "Stratigraphy and bedrock geology of parts of the St. Albans and Georgia quadrangles, northwestern Vermont," by Charlotte Mehrtens and Ann Hadley. This publication also figured prominently as a deliverable for the US Geological Survey's 1994 STATEMAP portion of the National Geologic Mapping Program, submitted last month.

The USGS was enthusiastic about the quality and variety of VGS submissions towards a new state map, which also included: one-degree sheets for Lake Champlain North, Montpelier and Mount Mansfield; digital format paper maps and digital files for the Lincoln, Warren, Mount Ellen, Roxbury, Gilson Mountain, Milton, Rochester, Arlington, the Vermont portion of the Shushan quad, Cavendish, Plymouth, Mount Snow and Readsboro 1:24,000 quadrangles.

In radioactive waste management news, the Texas Compact, which consists of Texas, Ver-

Continued on Page 5

Continued from page 4

mont and Maine, is on track for ratification when the US Congress returns from its August recess. The compact allows Vermont to ship its low-level radioactive waste to a disposal facility in west Texas, which is situated 800 feet above groundwater.

A special joint Senate and House Committee on the granite industry is meeting this fall to examine the condition of the industry and factors which may impede or promote its development. The committee is to report to the Legislature no later than January 15, 1996 with recommendations to improve the conditions of and promote job development within the granite industry.

Under the *National Geologic Mapping Act*, there are proposals before Congress which would increase the amount of money going to the states under the **STATEMAP** program. The *American Geologic Institute* is sponsoring another proposal to establish data repositories in each of the 50 states. The Survey presently archives geoscience data, but other institutions in the state may be interested in doing the same. If you are one of these, or know of one, please contact the Survey, so we can include the name in AGI's national directory. The data repository will serve as an important source of information for the entire geoscience community for a variety of applications, including environmental protection, water resource management, global change studies, reducing risks from earthquakes and other geologic hazards, and basic and applied research. In July, we sold the last of the original printings of the 1961 "*Centennial State Geologic Map of Vermont*." We are currently investigating placing a scanned image of the map on a CD-ROM, with paper copies available from a plotter. Look for more information on this in the next GMG.

Editor's Note: Many thanks to VGS Public Issues Committee Chairman, Phil Jones, for taking the time to contact the State Geologist's Office and for succeeding in getting the first official report in the last three years! Diane Vanacek was quick to inform Phil that there is no truth to the rumor going around that their office was being "phased out." In fact this is their 150th year and they are more active than ever. Thanks also to David Gun at the State Office for supplying the text for this report via e-mail in downloadable format.

You can contact the State Geologist's Office by calling :

(802) 241-3608,

or writing to:

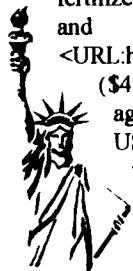
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Agency of Natural Resources
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Research Grants/Scholarships Available

- *Geochron Laboratories* annually awards a series of research grants to graduate students requiring interesting or new applications of isotopic analyses. The awards consist of analytical services performed free of charge to the winner of each category. Recent awards have been offered in K-Ar dating, C-14 dating, stable isotope ratio analyses (SIRA), SIRA in dietary studies, and SIRA of fluid inclusions in minerals. Awards are offered to promote the application of isotopic analytical techniques in solving original and significant problems. Application deadline is May 1, 1996. Early application is suggested. For Research Award Program Guidelines and official rules, call 617-876-3691, fax 617-661-0148, or write 711 Concord Ave., Cambridge, MA 02138
- *Jonathan O. Davis Scholarship: Quaternary Sciences Center of the Desert Research Institute* -This scholarship was established by the family and friends of Jonathan O. Davis to be given annually to support the field research of a graduate student working on the Quaternary geology of the Great Basin or surrounding areas. Administered by the *Quaternary Sciences Center of the Desert Research Institute*, the scholarship is a grant of \$1,000 or more and is open to graduate students enrolled in a M.S. or Ph.D program at any US university. Research must have a substantial geologic component, or demonstrate a strong reliance on geologic techniques. Applications must be received by Feb. 1, 1996. Include a current resume or vita, a two (2) page (single spaced) description of the thesis/dissertation research which also clearly documents the geologic orientation and research significance, and a letter of recommendation from the thesis/dissertation supervisor that emphasizes the student's research ability and potential as a Quaternary scientist. Address applications to: Executive Director, Quaternary Sciences Center, Desert Research Institute, PO Box 60220, Reno, NV 89506.
- *Cole Memorial Research Award and Fahnestock Memorial Research Award* applications are available from: *Research Grants Administrator, Geological Society of America, PO Box 9140, Boulder CO, 80301*. Applications must be postmarked by Feb. 15, 1996. The Gladys W. Cole Memorial Research Award provides support for investigations of the geomorphology of semi-arid and arid terrains in the US and Mexico. Application is open to GSA Members and Fellows. Last year's award of \$9,000 went to Robert S. Anderson, University of California, for his project entitled "*Validation of new Cosmogenic Radionuclide Dating Strategy on the Wind River Terraces, Wyoming*." The Robert K. Fahnestock Memorial Research Award is given annually to the student who submits the most outstanding research proposal in the field of sediment transport or related aspects of fluvial geomorphology. The 1995 recipient is Stephen Drew Thorne, Florida State University, for "*Traverse Bars: their origin and influence on flow structure, sediment transport and channel evolution in a boulder-bed stream*."
- *Vermont Geological Society Student Research Grants* are designed to aid our future geologists investigate Vermont's geo-history. Awards are presented semi-annually to the student(s) with the best research topic(s) and associated method(s) in Vermont Geology. Students receiving assistance through the program will present their research results at the VGS Spring Meetings. Fall application deadline is November 20, 1995. For applications contact VGS Student Research Grants, Dept of Geology, UVM, Burlington, VT 05405-0122

GOVERNMENT



- The USGS is now offering a digital database of agricultural practices and herbicide, fertilizer, and land use by county over the internet. The database includes the report and 18 GIS graphics layers. To access on the internet: <URL:http/h20.usgs.gov/public/pubs/bat/bat000.html>. Paper (\$36) and microfiche (\$4) copies of "Spatial data in geographic information system format on agricultural chemical use, land use, and cropping practices in the UNited State," USGS Water-Resources Investigations Report 94-4176 can be obtained by writing the USGS Earth Science Information Center, Open File Reports Section, Box 25286, MS 517, Denver Federal Center, Denver, Colorado 80225. Specify report number and full title.

WATER UPDATE

By Kent S. Koptiuch

- Many of Vermont's small, privately-owned water companies are struggling financially to meet stricter water quality analytical requirements. Currently there are 49 private water supply companies in the State serving approximately 6,000 residents. Heretofore, customers of private companies paid rates generally equivalent to those of customers on public systems in the state, however, some are now facing potential rate increases ranging from 37 to 463% if pending rate increase requests are approved by the Public Service Board. A number of the state's private water suppliers currently are not meeting water quality standards; their customers have been advised to boil their water. Several system owners have suggested turning their private systems into collectively-owned fire districts to qualify for upgrade grants and public loans.
- The USGS has released the results of a national survey encompassing water quality of more than 12,000 groundwater and 22,000 surface-water samples. The results indicate that the drinking water standard for nitrate was exceeded in 21% of shallow wells in agricultural areas. Concentrations were highest in areas of the Northeast, Midwest, and the West coast where row crops are predominant and soils are well-drained. Nitrate concentrations were generally lower in the Southeastern region of the country. Surface-water impacts were noted as generally elevated downstream of agricultural areas, but rarely in excess of drinking water standards. Copies of "Nutrients in Ground Water and Surface Water of the United States-An Analysis of Data Through 1992" are available from the USGS for \$12.25. Call 303-202-4210.
- Seven out of eleven leading US water faucet manufacturers have agreed to a national lead reduction plan aimed at meeting California's standard of 0.5 µg/day. The seven manufacturers will voluntarily step-down lead-containing components in their faucets nationwide. A goal of 65% lead-free composition has been set for 1996; it is anticipated that a 95% lead-free goal can be achieved by 1999.
- In a recent two-month study of tap water quality in 29 Midwestern cities, herbicide concentrations at levels in excess of federal health standards in 6 cities. 21 out of 29 cities had 4 or more herbicides present, while 28 out of 29 cities had some type of agricultural herbicide present in drinking water tested. The study, conducted by the Environmental Working Group listed atrazine and cyanazine as the most frequently encountered compounds. The cities with the most contaminated water were: Danville, Decatur, Granite City, and Springfield, Ill.; Columbus and Bowling Green, OH.; Indianapolis and Fort Wayne, IN.; Kansas City, KS.; Jefferson City, MO.; Omaha, NE; and New Orleans, LA.
- The *Safe Drinking Water Act (SDWA)* and the *Clean Water Act (CWA)* are still struggling through committees in the Congress and the Senate on their long and windy aqueducts to reauthorization. At stake is the quality of public water supplies throughout the country. The hands being played on Capitol Hill are drawing on our taxpayer dollars; ultimately we pay either through poorer water quality and its associated health risks, or through a continued federal deficit that will bankrupt our childrens' future. No winners in either hand!

(Continued on Page 10)

VERMONT GEOLOGICAL SOCIETY
BUSINESS AND NEWS



The VGS is pleased to welcome our Newest Members!

- Martha M. Doelle White River Junction
- John P. Jemsek White River Junction
- Kimberly A. Hannula Middlebury
- David M. Dreher Waterbury

Treasurer's Report

August 11, 1995

Since I took over as Treasurer from Stephen Howe, the financial condition of the Society has remained strong. As of July 31, 1995 the VGS checking account had a balance of \$3,990.43. Our excess of income over expenses for the period from January 1, 1995 through July 31, 1995 was \$891.94.

UVM graduate student, Amy Church, was awarded \$500.00 Student Research Grant on May 27, 1995. Four membership applications (see listing above), and three renewals were received from Ronald Marcotte (Bakersfield), Leslie Kanat (Johnson), and Middlebury College.

Respectfully Submitted,
Allen Carpenter

Executive Committee Meeting- August 12, 1995

Due to the lack of a quorum at the Summer Field Trip of OMYA's Middlebury Limestone Quarry, an Executive Committee meeting was not convened. Many thanks to Barney Hodges of OMYA for leading a very informative tour of the quarry, and for explaining the intricacies of OMYA's processing technology!

The next Executive Committee Meeting will be held in conjunction with the Annual Fall Banquet Meeting and Officer Elections on October 28, 1995 at the *Inn at Long Trail* in Sherburne, Vermont (See details on Page 13).

Proposed VGS Bylaws Changes (Changes highlighted in bold italics)

Article VII, Section B. Vice-president:

The Vice-president shall perform the duties of the President in the absence of the ability of that officer to serve, and those duties assigned by the President. ***The Vice-president shall also coordinate with, and serve with the Chairperson of the Advancement of Science Committee in reviewing all applications for Student Research Grants. If need be, the Vice-president shall have the authority to appoint appropriate additional persons with relevant knowledge of a particular proposed research topic to assist in completing the review of grant applications. Should the Vice-president and the Chairperson of the Advancement of Science Committee not agree on a Student Research Grant recipient, the President shall have the authority to make the final decision.***

SEMINARS, MEETINGS, and FIELD TRIPS

- Oct 27, 1995: *Soil & Water Conservation Society Fall Chapter Meeting - New Hampshire/Vermont Chapter*. A 1-day short course on wetlands delineation at the US Army Corps of Engineers Cold Regions Research & Engineering Laboratory (CRREL) in Hanover, New Hampshire. 9:00 am - 3:30 pm. Contact: Nick Comerci @ (802) 748-3885.
- Oct 28, 1995: *Vermont Geological Society - Annual Fall Meeting and Field Trip - A Central Vermont Quarry Tour and dinner at the Inn at Long Trail with "Extra Stout."* Meet at Rock of Ages Quarry, Barre, Vermont, 10:00 a.m.

At only \$15.00 per year the VGS offers one of the best bargains in Professional Association dues around. Do you know a "rock head" who'd like to enrich his/her depositional environment? Let's get their mudcast today!

- Oct 29-Nov 3, 1995: *Soil Science Society of America - Annual Meeting*. St. Louis, MO. Contact: SSSA, 667 S. Segeo Rd., Madison, WI 53711, (608)273-8080.
- Nov 6-9, 1995: *Geological Society of America - Annual Meeting* - Ernest N. Morial Convention Center, Hyatt Regency, New Orleans, LA. Contact: GSA Meetings Dept., PO Box 9140, Boulder, CO 80301, (303)447-2020, Fax 303-447-6028.
- Mar 21-23, 1996: *Geological Society of America - Northeastern Section Meeting*. Hyatt Regency, Buffalo, NY. Contact: GSA Meetings Dept., PO Box 9140, Boulder, CO 80301, (303)447-2020, Fax 303-447-6028.

CALL FOR PAPERS

APPLIED ENVIRONMENTAL GEOLOGY IN NORTHERN NEW ENGLAND:

A Synopsis of Currently Accepted, or Evolving Investigative & Remedial Practices at Hazardous Waste Sites in Vermont, New Hampshire, Maine, and Upstate New York

To be held as the VGS Winter Symposium. Date and Location to be determined at the annual Fall VGS Executive Committee Meeting.

The VGS is seeking papers that address all aspects of currently accepted practices or evolving innovative practices in hazardous waste site investigation and/or remediation of soils and groundwaters impacted by petroleum and chlorinated hydrocarbons. Instructions:

- Submit four (4) copies of a one (1) -page abstract of 250 words or less in standard Geological Society of America abstract format (floppy disk in any Microsoft Word Processing format or ASCII text-only welcomed also) by **November 30, 1995** to:

Kent Koptiuch
 Vermont Geological Society
 c/o KSKGeoS
 164 Osgood Hill, Essex, VT 05452
 Fax 802-878-1620, e-mail: KSKGeoS@aol.com

The VGS anticipates a ½ -day program consisting of up to eight (8) presenters. Twenty (20) minutes will be allowed for each presentation followed by ten (10) -minutes of questions and answers. Please indicate your requirements for audio-visual equipment on the abstract.

(Water - Continued from Page 7)

- California water bottler, Paul Mason of Adobe Springs, has been actively promoting the health benefits of magnesium-enriched drinking water for years. After writing just about everyone in the federal government, the FDA has taken note and hired the National Academy of Sciences (NAS) to study the issue. The Dalifornia DOH have also called for additional studies on the issue after initial literature research indicated that there might, indeed, be some health-related benefits associated with magnesium intake in regards to cardiovascular disease. The NAS study results should be forthcoming in the *Journal of Epidemiology Reviews* in 1996.
- In Lincoln, Nebraska, *Groundwater University* - a Summer program for high school students - completed its second successful season. The program pairs students up with groundwater professionals who serve as mentors. The program is funded by the Nebraska Groundwater Foundation, the Nebraska Public Power District, the US EPA Region 7, Nebraska Department of Environmental Quality, the USGS, and the NRCS. The students each complete a project of their own design, over the course of the Summer, related to groundwater quality and/or conservation.
- In a bid to conserve an estimated 15 million gallon of drinking water annually, the city of Boise, Idaho now requires dual water lines to all new construction. The second service line will provide water from irrigation canals to be utilized for lawn watering and car washing. It is estimated that the irrigation water will cost average homeowners approximately \$30.00 per year, while saving them up to \$50.00 per month in potable water fees.

Question of the Quarter

“Should Vermont establish a *Professional Geologist* licensing program similar to that of the existing *Professional Engineer* licensing program?”

Background

We've asked this question before with only limited response. Many other states have professional certification programs to establish a baseline of quality, professionalism, and ethics in the industry.

What is the "PG" worth to YOU?

Please let me, the State Geologist's Office, and your State representatives know your opinions.

Kent Koptiuch
 164 Osgood Hill
 Essex, VT 05452

Tele/fax: 802-878-1620 - e-mail: kskgeos@aol.com

Got an idea for a VGS field trip or seminar? Let us know how you want your Society to work.

- The responses to last issue's question: "*Should the taxpayer-funded, Vermont Department of Environmental Conservation, R.A. LaRosa State Environmental Laboratory continue to operate in direct competition with private industry laboratories?*"
- Six (6) respondents were opposed to the State Lab's competition with the private sector labs.
- One (1) respondent was in favor of the practice.

How about it folks; we've got more than 125 members out there - let me know what you think?

Come to the
Vermont Geological Society's
Fall Field Trip and Annual Meeting!

The Trip:
Rock of Ages Quarry, Barre
Rochester Verde Antique Quarry
Hike up Deer's Leap
Saturday, October 28, 1995, 10:00 AM
Meet at the Rock of Ages Information Center

The Annual Meeting and Banquet:
the Inn at Long Trail, Sherburne, 5:00 PM

Irish Music at 5:00 PM by *Extra Stout*. If you plan on attending, please contact one of the following people as soon as possible:

- Helen Mango - 802-468-5611, ext.478; mangoh@sparrow.csc.vsc.edu
- Kent Koptiuch - 802-878-1620; kskgeos@aol.com
- Stephen Wright - 802-656-4479; swright@moose.uvm.edu

Elections and other VGS business will be conducted regardless of noise level!

When it's Important to you, make your opinion count! Contact Your Representatives today:

FEDERAL

Senate:

The Honorable Patrick J. Leahy
433 Russel
Senate Office Building
Washington, D.C. 20510-4502
(202) 224-4242
(800) 642-3193

The Honorable James M. Jeffords
513 Hart
Senate Office Building
Washington, D.C. 20510-4503
(202) 224-5141
(800) 835-5500

Congress:

The Honorable Bernard Sanders
213 Cannon
House Office Building
Washington, D.C. 20515-4501
(202) 225-4115
(800) 339-9834

STATE

Governor Howard Dean, M.D.
Office of the Governor
Montpelier, VT. 05609
(802) 828-3333
(800) 649-6825

Senate or House

(800) 322-5616
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answers; your legislator will call you back.

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"FIELD TRIP GUIDEBOOK NUMBER 3"
Editor: Stephen F. Wright

Contents

- Cretaceous Intrusions in the Northern Taconic Mountains Region, Vermont
J. Gregory McHone & Nancy W. McHone
- Depositional Environments in the Mid-Ordovician Section at Crown Point, New York
Brewster Baldwin & Lucy E. Harding
- The Altona Flat Rock Jack Pine Barrens, Altona, New York
David A. Franz & Kenneth B. Adams
- The Champlain Thrust Fault, Lone Rock Point, Burlington, Vermont
Rolfe S. Stanley
- Stratigraphy of the Cambrian Platform in Northwestern Vermont
Charlotte J. Mehtens

Vermont Geological Society
Student Research Grants

are designed to aid our future geologists investigate Vermont's geo-history.

Help the VGS to promote a deeper insight into Vermont Geology.

Students receiving assistance through the program will present their research results at the VGS Spring Meetings. Your generosity will help cover a lot of terrane!



To receive your copy of **Vermont Geology, Volume 7**, or to contribute to the VGS Student Research Grant Program, clip this form and send it, along with your check or money order made payable to VGS, to:

Allen Carpenter, Treasurer, Vermont Geological Society
Department of Geology, University of Vermont
Burlington, Vermont 05405-0122

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