



February, 2002

Volume 28
Number 1

The President's Message

Members,

Firstly, New Years greetings to you, even though it is already the middle of February! I hope the winter is treating you all well. It promises to another busy year in the GSM calendar, as you will see by the various announcements in this Newsletter.

Next month sees the annual NE section meeting of GSA at Springfield, Ma, from March 25th – 27th. Included in this issue is a message from the Chair of the organizing committee, Dr Sheila Seaman. I know there is some concern over attendance at the meeting following as it does so closely on the heels of the Boston meeting. I hope that there will be good representation from all of us at the more northerly margins of the NE section. Then on Friday, April 5th we have our spring meeting, which this year is being hosted by Colby College. As many of you know this highlights student research projects and I would like to see as many students as possible present at this meeting. Abstracts should be submitted to Dan Belknap by March 22 for inclusion into the next Newsletter. Another event of note is the "Coastal communities and climate change in the North Atlantic" symposium on April 13th at the Coastal Studies center at Bowdoin College.

Later on in the year we will have our summer field trip. If you have any suggestions on locations for this year's trip please convey them to a committee member or myself so we can get busy organizing. The web page continues to evolve with an expanded links section. In the next month all past Newsletters will be on the web page. Please send any announcements to our webmaster Seth Barden at seth.barden@maine.edu and he will make sure it gets posted on the page.

I look forward to seeing you at some or all of these events during the coming year, cheers!

Dave Gibson, President, Geological Society of Maine
dgibson@maine.edu

The Editor's Message:

As mud season is upon us early this year, you can't get into the field, so come to the GSM Spring meeting to see some stellar examples of student research. The quality of poster and oral presentations has improved each year, participation has increased

greatly, and all-in-all these are fully professional presentations.

Please note the date on the Newsletter mailing label to determine if you are up-to-date with your dues.

Dan Belknap, Newsletter Editor
<belknap@maine.edu>



Geological Society of Maine Spring Meeting

Friday, April 5, 2002, 1:30 PM

Colby College

Waterville, ME

In and around Olin 1 (Biology)

Agenda:

- 1:30-4:00: Student poster sessions
- 4:00-5:00: Student oral presentations
- 5:00-5:45: Business Meeting- Important!!
- 6:00-7:00: DINNER - Robins Room in Roberts Student Union to be setup for dinner and after-dinner speaker, which will allow everyone to pay for their dinners in the Cafeteria in the basement and bring their meals upstairs to the meeting room. Dinner in the dining halls is \$7 for the complete buffet; there is always at least one vegetarian entree.
- 7:15-8:00: Evening Speaker – Bob Marvinney, Maine State Geologist: Geological Applications of G.I.S. (Geographic Information Systems)



GSM Web Site

www.gsmmaine.org
Seth Barden, Webmaster, UMF
<seth.barden@maine.edu>

If you have not yet done so, please visit the website. It is a great place to keep up with the happenings of the Society, but also has links to Maine geology resources, educational institutions and governmental agencies. With just a few clicks you can find anything posted on the web concerning Maine Geology. Have a great time surfing.

The State Geologist's Message: A New Era of Map Production

For most of the tenures of the current and past two state geologists, the primary means of making geological maps available to the public at low cost was through various permutations of a diazo process. For this process, maps were drafted on mylar, placed on special photosensitive paper, exposed to light, and developed to produce a paper black and white map for only pennies a sheet. With the exception of a few high-volume maps like the state bedrock and surficial maps, all geologic maps up to 1990 were produced as black and white line maps on mylar. Even our first GIS-based maps were produced on mylar so that we could use the diazo process to make copies.

Early diazo equipment at the MGS included a homemade light box incorporating about 30 sunlamps for even exposure. Making mylar masters and paper copies was sweaty work even in February. Over the years, improved equipment replaced our improvised solutions, most recently our Océ machine, purchased in 1987. This beast would automatically feed mylar maps, advance a roll of special paper, cut the sheet, make the proper exposure, and develop the paper map all in a matter of seconds. It was the workhorse of the survey for a decade, but as map volume increased so did the labor involved. Eventually MGS staff was spending about half a man-year getting mylars from storage, running copies, replacing mylars, and folding paper maps.

With the digital revolution in mapping during the last decade, several problems began to develop with our map reproduction system. As the demand for diazo processing decreased, technical support for our equipment evaporated and paper was hard to find. Bob Tucker, Ben Wilson, and John Poisson did yeoman's work keeping our machine running with improvised repairs. But with paper supplies dwindling, we knew we had to make a change.

In 1999 we set on a course to convert all old maps to digital format. For part of this effort, we purchased a large format scanner to automate several older map series. We also digitized some maps. Most importantly, to see us through until the conversion was done we bought the last rolls of special diazo paper available in the country! After many months of scanning and formatting, our library of more than 1,000 scanned maps is complete. Maps are now plotted on two HP 5000 inkjet plotters with a single click of the mouse. The Océ machine was shut down for the last time in early February, disassembled, and hauled off to our surplus property shop. Thanks to all the survey staff who made this conversion a great success! And, if anyone needs a heavy mooring block, I'm sure the state surplus folks would like to hear from you!

Robert G. Marvinney, Maine State Geologist:
< Robert.G.Marvinney@state.me.us >

NEGSA Section Meeting:

A message from Sheila Seaman, NEGSA Section Meeting General Program Chair:

We invite you to register for the Northeastern Section meeting of the Geological Society of America, which will be held in Springfield, Massachusetts, March 25-27. The meeting will be held in the Sheraton Springfield, centrally located in downtown Springfield. Highlights of the meeting include the first Northeastern Tectonics (NETectonics) Symposium, during which any and all aspects of the tectonic evolution of the northeastern U.S. and eastern Canada will be considered; a symposium honoring the career of Ed Belt of Amherst College and another honoring the career of Jim McLelland of Colgate University; a full morning workshop for geoscience educators, a rich host of watershed, wetland, and hydrogeology theme sessions; three field trips and four short courses, and a fine banquet at which Dr. Lynn Margulis will be the keynote speaker. The geologists of the University of Massachusetts-Amherst, Amherst College, Mount Holyoke College, Greenfield Community College, Smith College, and Hampshire College welcome you to the 37th Annual Northeastern Section meeting of the GSA in Springfield, Massachusetts!

Meeting information, registration forms, and online registration are available now at the GSA Web site so you may register at anytime. The Web address is: <http://rock.geosociety.org/ne/neblast.asp>

The preregistration deadline is Friday, February 15, 2002. The cancellation deadline is Friday, February 22, 2002.

UMF – UMPI Field trip to the Pacific Northwest

This May a group of students from the Universities of Maine at Farmington and Presque Isle will be making a grand trek across country to the Pacific Northwest. This is the first joint trip by the two departments and will involve 24 students and three faculty, Dr Kevin McCartney (UMPI) and Drs. David Gibson and Tom Eastler (UMF). On the three-week trip they will visit an impressive array of geological sites including Flaming Gorge, Lassen Peak, Mts. Shasta and St. Helens, Yellowstone, Devils Tower and the Black Hills of S. Dakota.

GSM MEMBER NEWS

Susan Weddle (former GSM Newsletter Editor) received her Masters degree in education from the University of New England last year. She is now teaching math and language arts at Brunswick Junior High School.

Andy Tolman (Department of Human Resources) is now secretary of the Executive Committee of the National Association of State Board of Geologists.

Kristin Tardif (Poland Spring Bottling Company) recently received the Community Service Leadership Award from the Lewiston/Auburn Chamber of Commerce.

News from Colby College: **Bruce Reuger** successfully defended his Ph.D. dissertation at the University of Colorado at Boulder. **Bob Gastaldo** is setting up a geological studies program in Cape Town, South Africa, as part of CBB. **Bob Nelson** is setting up a program in Quito, Ecuador. **Jen Schosa** and **Whitney King** are planning a spring launch for the 24-foot research vessel recently purchased with NSF grant money. The boat will be used for various studies in the Kennebec watershed, beginning in the Belgrade Lakes.

Walter Anderson (retired but very busy) is president of the Central Maine Mens Club. Walter and **Joe Kelley** (University of Maine) have been re-appointed by the President of the Senate to the Maine Oil Spill Advisory Committee. Walter will also be preparing a building stone walking tour guide for Portland patterned after **Dorothy Richter's** guide for Boston.

Please send member news to:

Carolyn Lepage <clepagegeo@aol.com> or
PO Box 1195, Auburn, ME 04211-1195 or
by fax to 207-777-1370 or just call 207-777-1049

SECRETARY'S REPORT

Geological Society of Maine 2001 Fall Meeting - November 16, 2001 Poland Spring

After a tour of the renovations and progress on displays at the original Poland Spring, President David Gibson called the business meeting to order at 4:30 p.m. The Secretary and Treasurer's reports were accepted as printed in the newsletter.

GSM news: Tom Weddle was asked to report on MGS activities. Budget cuts are pending because of shortfalls in the State budget. MGS is working on a proposal for the 2002 STATEMAP program. An advisory committee is being formed for the spring to discuss funding.

University news:

Steve Pollock at USM is Secretary/Treasurer of NEGSA. He noted that there is funding for student presenters to travel to sectional and national meetings. Also, information regarding funding for undergraduate research will appear in the January GSA Today. The 2002 NEGSA is in Springfield, MA, scheduled for late March. The 2003 meeting will be in Halifax, N.S.

Tom Eastler, UMF, announced a potential new position for a field-oriented generalist, with hydrogeology and GIS capabilities, plus specialty.

Dyk Eusden noted that Bates College might be looking for a one-year mineralogy/petrology position to cover a sabbatical leave. Contact Dyk for more information. The application deadline is April 1, 2002.

Dan Belknap informed us of \$680,000 NSF funding toward the purchase of an electron microprobe by the University of Maine for geological research, to be in place by June 2002. The UM Department of Geological Sciences strongly desires a regional facility to develop out of this. Peter Koons has been hired as a geodynamicist/geophysicist.

Newsletter: Dan emphasized the need for news from Geology Clubs, announcements, poetry, and the like.

Webpage: Walter Anderson reiterated that all newsletters should be placed on the GSM Webpage.

Historian: Arthur will have an article ready for the next newsletter.

Future GSM meetings: Suggestions fielded regarding a joint meeting with New Hampshire Geological Society. Woody Thompson will approach NH. Liz Champeon commented that students need to learn how to communicate with engineers, and that GSM should have another joint meeting with the Consulting Engineers of Maine (CEM). Pat Seaward noted that the first joint meeting with CEM was successful because the topic (GIS) was germane to both groups; therefore a joint meeting would work under that scenario.

Colby College was volunteered to host the **spring meeting**. The date will be decided when all spring break schedules are known.

Geology certification: There was a question regarding the status of the new fee structure for certified geologists. Irwin Novak represents academia on the Board, which, he says, has no input as to why the fees increased from \$60 to \$140 per year. Rob Peale thought that someone was looking at the funding formula; but Irwin didn't know if that had happened yet. Walter added that the Bureau of Finance and Administration could not explain where the certification fees were being spent. MGS had offered to take over the service for administration, but finance did not support that suggestion. Tom Eastler would offer to lead an opposition to the new fees. We need

to know that our fees support our interests. Walter added that it would help if the regulatory agencies required all work completed as part of the public record be completed by certified geologists. (We do)

Art Hussey inquired if there were any statistics on the testing regarding how many people have taken the test since the change in format, how many passing, etc. There are no statistics that Irwin is aware of.

Geology of Maine: Steve Norton inquired into the progress of the text (?) on the geology of Maine. Dave Gibson admitted that it is still in the early stages. Lisa Churchill-Dickson brought up that the work being done on Maine's fossil record includes a reconstruction of the geological history of Maine and should be a precursor to the Geology of Maine. The publishing target for the fossil record is November 2002. Joe Kelley mentioned one option for the geology publication could be that GSM could contract with a private publisher to increase GSM endowment. Lisa suggested that there be contributions by several geologists, and then collated by an editor. Dave Gibson seemed in favor to pursue that idea.

A sad note: Walter informed us that our host for Poland Spring, Kristin Tardif is unable to be with us today as her son was killed in an automobile accident last evening. Our condolences to Kristin and her family.

Housekeeping: Walter has asked that we clean up trash and bottles after we adjourn this evening.

The business meeting was adjourned by presidential decree for "happy minutes" before dinner. Many thanks to Poland Spring for another great meal.

Evening Speaker
Elizabeth A. Wilson, Ph.D.
Electricity Deregulation and the California Energy Crisis

The evening speaker was Betty Wilson who gave an informative talk on Electricity Deregulation and the California Energy Crisis. In California the demand for energy to generate electricity is greater than the supply, energy that California could not deliver; forcing purchase of energy on the daily (spot) market, not the most economical scenario.

The players included the production, marketing/trading, generation, transmission, distribution, and regulation of electrical energy. Regulations discouraged construction of new plants, contributing to the lack of well-developed infrastructure. Natural gas prices increased two to threefold. Rates were frozen. And to add insult to injury, generators/suppliers would not sell energy to bankrupt utilities!

The northeast fares better because the demand is steady, more plants are being built, greater dependency on natural gas, only 20% purchased in spot market, and an ability to import from other states. Re-regulation has identified electricity as a special

commodity leading to a better wholesale market design, real-time pricing for consumers, choice, co-generation capacity, improved transportation infrastructure, storage capacity for natural gas, and life-cycle analysis which allows utilities to anticipate surprises.

Conservation is forced by high energy costs. Many people (and oil companies) are working on energy alternatives. More needs to be done to promote new (renewable) technologies related to hydro, solar, wind, wood, and fuel cells. The need to move away from fossil fuels is dictated by finite resources worldwide, but there is no agreement on how much is left. The US is in every oil-producing country to protect our interests, but that has worsened the associated political problems.

Betty ended her talk with a set of provocative questions that we as geologists, consumers, and informed citizens must ask, including:
 What is the true cost of any form of energy?
 What are the social implications of development, exploitation, and dependence on various energy resources?

Respectfully Submitted, Pat Seaward, Secretary
[<Patricia.O.Seaward@state.me.us>](mailto:Patricia.O.Seaward@state.me.us)

GSM TREASURER'S REPORT

The Society currently has 377 members: They are distributed as follows:

| | |
|---------------|-----|
| Associates: | 33 |
| Institutions: | 14 |
| Regular: | 284 |
| Students: | 46 |

| | |
|--|---------------------|
| Balance on Hand 02/06/02 | \$ 10,282.82 |
| Anderson Fund (Total) | \$ 5,224.68 |
| Education Fund (Total) | \$ 842.70 |
| Checking Account (other) | \$ 5,883.11 |
| Receipts | |
| Dues | \$ 690.00 |
| Anderson fund (interest) | \$ 12.04 |
| Anderson fund (contributions) | \$ 61.00 |
| Education fund | \$ 0.00 |
| Publications | \$ - |
| Subtotal | <u>\$ 763.04</u> |
| Expenses | |
| Printing, mailing, stamps | \$ 314.41 |
| Add't'l Grand Manan Trip (vans, etc.) | \$ 1,158.77 |
| Sales Tax | \$ 1.00 |
| Subtotal | <u>\$ 1474.18</u> |
| Balance on Hand 10/06/01 | \$ 10,993.96 |

Respectfully submitted,
 Elizabeth A. Champeon, Treasurer
[<Lchampeon@aol.com>](mailto:Lchampeon@aol.com)

NEW HAMPSHIRE PROFESSIONAL GEOLOGIST GRANDFATHER PERIOD CLOSES JUNE 2002

Timothy Stone, CPG-7282
President- New Hampshire Council of Professional
Geologists

Less than five months remain of the "grandfather period" which waives the examination requirement for qualified geologists applying for a New Hampshire Professional Geologist license. Forty-six geologists have received licenses from the New Hampshire Professional Geologist Board as of January 31, 2002. Since the NH Joint Board of Licensure (Joint Board) received requests for and mailed more than 350 application packages, and many applications have been downloaded from their web site, they anticipate that there will be quite a flood of applications in the coming months. Additionally, as a direct result of the licensing of geologists in New Hampshire, the NH Department of Environmental Services is currently working on draft regulations which would require that a NH licensed geologist (or licensed engineer) supervise and sign certain documents for submittal to the agency. These regulations are likely to be in place by the fall of 2002.

The Joint Board must receive license applications by June 30, 2002 to be included in the grandfather period that opened on July 1, 2001. Candidates whose applications are received after June 30 will have to meet the additional requirement of passing the National Association of State Boards of Geology (ASBOG) Fundamentals of Geology and Practice of Geology exams. In summary, to qualify as a candidate for licensure in New Hampshire, you must have:

1. A Bachelors, Masters or Doctoral degree in geology or a related field; and,
2. At least five years of experience in the practice of geology, three of which were under the supervision of a licensed professional geologist or a geologist who otherwise would meet the requirements of licensed professional geologist in New Hampshire.

Detailed licensing requirements and an application form can be found on the Joint Board web site at www.state.nh.us/jtboard/geo.htm.

The licensing process begins with the initial submission of a completed application and a \$200 fee to the Joint Board. If the Joint Board staff review finds that the application form is complete, they will send reference and transcript request forms to the applicant. It is then the responsibility of the applicant to send the requests out to their references and schools, who must return the completed references and transcripts directly to the Joint Board. It is the responsibility of the applicant to follow-up to make sure the requested documents are submitted to the Joint Board. Once the

Joint Board receives a complete application package with references and transcripts, a Geologist Board member will review the package. If the reviewer finds that satisfactory evidence has been provided supporting that the applicant meets the requirements for licensure, at the next Geologist Board meeting the application will be voted on and a license granted, if appropriate. If the reviewer finds that clarification and/or more information is needed, then the candidate will be contacted. The timing from initial application receipt by the Board to issuance of a license is typically two months, with the greatest delay associated with the receipt of reference letters.

Having just completed the application myself, I found the process was relatively painless, particularly if you download the application form and complete it in MS Word. The instructions are self-explanatory and I identified only two items that are worth clarifying. The first is that the three required professional geologist references must clearly indicate that they are licensed by a State or would otherwise meet the requirements for licensure in New Hampshire. Certification (CPG) by AIPG is one way for the reference to demonstrate having the education and experience equivalent to the New Hampshire geologist licensing requirements. The second clarification is that when completing the detailed "Supplemental Experience Record" portion of the application, it is not necessary to list all of your projects or assignments, contrary to what the instructions may imply. Joint Board staff has indicated that it is adequate to identify key pertinent project experience for each period of employment that demonstrates increasing responsibilities with regard to geology.

The New Hampshire Council of Professional Geologists (www.nhcpge.org) anticipates that New Hampshire will likely be the last New England state to license professional geologists since Connecticut and Massachusetts have their Licensed Environmental Professional (LEP) and Licensed Site Professional (LSP) programs, respectively, and to date, neither Vermont nor Rhode Island have indicated any movement towards the licensing of geologist. As such, if you believe that a licensed professional geologist credential may be useful in your career, or you are currently working in New Hampshire or anticipate that you may in the future work in the State, you are encouraged to download a copy of the application and go to work on it. Application information can also be requested by calling the Joint Board (603) 271-2219 or by email: <dlobdell@nhsa.state.nh.us>

COASTAL STUDIES CENTER BOWDOIN COLLEGE 2002 SPRING SYMPOSIUM

"COASTAL COMMUNITIES AND CLIMATE CHANGE IN THE NORTH ATLANTIC"

The Coastal Studies Center at Bowdoin College in collaboration with the Arctic Museum and the Environmental Studies Program, is hosting an all-day symposium Saturday, April 13, 2002 entitled "Climate change and coastal communities in the North Atlantic"

We hope to draw students and faculty from universities and colleges in the area and invite you to send this pre announcement out to faculty and students in your department who may be interested in attending this event.

The purpose of this symposium is to bring together natural and social scientists for an all-day symposium to reflect on the recent IPCC finding that emphasizes the need for societies to adapt and be flexible in the face of the growing uncertainties related to climate change. The symposium will focus on the North Atlantic region, bridging scientific understandings of climate change and its potential impacts on coastal communities and fishery resources with the small-scale societies that depend on such resources for their livelihood. Many of these societies have a history of dealing with uncertainty and provide models for adaptability in the face of change. The policy component of the symposium will address the challenges of dealing with uncertainty and legislating adaptability at a variety of scales. The symposium coincides with the Arctic Museum's exhibit "Ancient Ice, Cool Climate: Climate Change in the North."

List of speakers and tentative format:

Morning (Climatic context and small scale society case studies)

Greg Zielinski (U Maine, Orono) coastal vulnerabilities in North Atlantic sea-surface temps, sea ice, storm frequency and sea-level rise

Mark Nuttall (University of Aberdeen, Department of Anthropology) Greenland case study

George Wenzel (McGill University) Eastern Canadian Arctic case study

Afternoon (Policy implications)

Robert Corell (Atmospheric Policy Program, Atmospheric Society of America)

Mike McCabe (Former Deputy Director of the EPA)

Discussion between panelists and audience Q&A

Reception at the Peary-MacMillan Arctic Museum

Below is a brief overview of the research interests of each of the participants.

Greg Zielinski (University of Maine, Quaternary Studies; Maine State Climatologist). Zielinski's current research focuses on the reconstruction and evaluation of weather and climatic conditions across New England for the last 300 to 400 years. The latest part of this record utilizes the instrumental record for stations across the region with a particular emphasis on the temporal and spatial variability of snowfall. The earlier part of the record relies on the reconstruction of day-to-day weather patterns available in personal diaries, newspapers, journals and other forms of the written record (i.e., historical climatology). He is especially interested in using both of these data sets to develop a lengthy record of northeasters and to evaluate changes in the number and magnitude of

northeasters through time. The second major aspect of his research is the evaluation of the volcanism-climate system primarily through the volcanic records that he develops from ice cores.

Mark Nuttall (Professor of Social Anthropology, University of Aberdeen). Nuttall specializes in the anthropology of rural and coastal communities in the Arctic and North Atlantic and has carried out research in Greenland, Scotland and Alaska. His work has a particular focus on local knowledge, rural development and social change, human-environmental relations, marine mammal hunting and local fisheries. His current research projects are concerned with the sustainable utilization of living marine resources in the Arctic and North Atlantic, and link with the work of colleagues in Iceland, Norway and the United States.

George Wenzel (Professor of Geography, McGill University). Wenzel's research interests focus primarily in Inuit subsistence, northern human ecology, Inuit wildlife use in Arctic Canada, public policy and native peoples and the economic relations in contemporary Inuit society.

Robert Corell (Atmospheric Policy Program, Atmospheric Society of America). Corell's current policy interests involve research concerned with both the sciences of global change and sustainability, in particular the interface between science and public policy, as well as developing an international initiative in sustainability science that seeks to integrate at the science-policy interface scientific and technological research, assessments, monitoring, observations, and decision support systems. Corell currently serves as the Chair of the Steering Committee for the Arctic Climate Impact Assessment, an international effort to evaluate the effects of climate variability, change, and UV increases in the Arctic.

Mike McCabe (McCabe and Associates, formerly Deputy Administrator of the EPA). McCabe has most recently been working on reports for the Pew Center on Climate Change.

ARSENIC IN NEW ENGLAND: A Multidisciplinary Scientific Conference May 29 - 31, 2002 Manchester, New Hampshire

Overview

Exposure to arsenic in drinking water represents a significant health problem for people around the world. This problem is of particular significance in New England, where soils and water contain elevated levels of arsenic. Though exposure to arsenic has been linked to increased risk of cancer, heart disease, diabetes and reproductive disorders, the mechanisms for disease are poorly understood. This two-and-a-half day, multidisciplinary scientific conference will provide with an overview of new findings by researchers from a wide array of disciplines, from

geology to molecular biology. Presentations and discussions will focus on:

- * arsenic's natural occurrence in ground water,
- * controls on mobility of arsenic in ground water,
- * mechanisms of action as a toxin,
- * effects on human health,
- * environmental impact and movement through ecosystems, and
- * regulation and remediation strategies.

Keynote speaker

The keynote speaker for the conference is Dr. Kenneth Cantor, a senior researcher in the branch of Environmental Epidemiology and Biostatistics at the National Cancer Institute and one of the world's leading experts on human health aspects of arsenic in drinking water.

Who Should Attend:

Those people interested in the science and regulation of arsenic including academic and government scientists, environmental and public health officials, medical professionals, risk assessors, resource managers and students in relevant scientific disciplines.

Location:

The conference will take place at the Holiday Inn and Conference Center in Manchester, NH, located 5 miles north of Manchester Airport and 55 miles north of Boston's Logan Airport.

Abstracts Requested Deadline: March 1, 2001

Attendees who are interested are encouraged to submit an abstract to present a poster of their scientific work to arsenic in the environment or its effects on human health.

Abstracts should present original scientific work that has not been previously published in a peer-reviewed publication. Submission instructions are posted on the Conference web site.

Registration

Registration can be done online on the conference web site. Registration Deadline is May 1, 2002. For details see the Conference web site.

Sponsorship

The conference is sponsored by the members of the New Hampshire Consortium on Arsenic and by a grant from the National Institute of Environmental Health Sciences (NIEHS) and the U.S. Environmental Agency through the NIEHS Superfund Basic Research Program.

Conference web site:

<http://www.dartmouth.edu/~cehs/ArsenicConference/indexAS.html>

MAINE MINERAL SYMPOSIUM,

MAY 10-12, 2002

Mineral enthusiasts, geologists, and earth science teachers are invited to the 13'th Maine Mineral Symposium at the Senator Inn, located in Augusta, Maine. The Symposium centers on a day of informative and enjoyable talks about mineral and gem discoveries, mining history, and other rocky topics. This spring's program will feature tourmaline, with an overview by Vandall King on Maine tourmaline and how to distinguish it from look-alikes from other parts of the world. John Marshall will give a talk on the colossal 1970's tourmaline strike at the Dunton Mine in Newry, in which he participated; and Ronald Lovaglio (Maine DOC Commissioner) will discuss the proposed acquisition of the Newry mines for a State mineral park.

Most people don't think of Maine as having many fossils, but Lisa Churchill-Dickson has found enough information to literally write a book on the subject. She will give a talk on Maine fossils that span a half-billion years of geologic time. This will be a real "antiques road show", as Lisa describes her travels to the Smithsonian and other museums in a successful quest for the many and varied Maine fossils hiding in old collections! Amazonite is a beautiful green feldspar that occurs rarely in granites and granite pegmatites. Michael Wise (Smithsonian mineralogist) will discuss amazonite occurrences in the eastern U.S. and the origin of this mineral's distinctive color. Once again we will have a featured talk on an exotic part of the world. Shields Flynn will talk about his recent trip to Namibia in southwest Africa, with visits to the Tsumeb Mine and other famous mineral localities interspersed with dramatic scenery and wildlife.

The Maine Mineral Symposium includes exhibits as part of the Saturday program. This year's displays will show minerals from New England and other world localities, as well as Maine fossils. Saturday night features an auction of minerals and related collectibles to benefit future symposia. Dealers from all over the Northeast will have a large selection of minerals and gems for sale in their rooms at The Senator, beginning on Friday afternoon. On Sunday there will be field trips to quarries where you can find your own specimens.

The entire Symposium weekend is only \$10 per person. A registration form and detailed schedule are on the Maine Geological Survey's Web site at: <http://www.state.me.us/doc/nrimc/mgs/mincolec/sympnews.htm>

Call Woody Thompson (Symposium chairman) at MGS (287-7178) if more information is needed.

MEMBERSHIP DUES STATEMENT

The GEOLOGICAL SOCIETY OF MAINE, INC. is a non-profit corporation established as an educational Society to advance the professional improvement of its members; to inform its members and others of current and planned geological programs in Maine; to encourage continuing social contact and dialog among geologists working in Maine; and to further public awareness and understanding of the geology of the State of Maine; and of the modern geological processes which affect the Maine landscape and the human environment.

The Society holds three meetings each year, in the late fall (Annual Meeting), early spring, and mid-summer (usually field trips). A newsletter, *The Maine Geologist*, is published for all members three times a year. The Society year runs from August 1 to July 31. Annual dues and gift or fund contributions to the Society are tax deductible. There are three classes of memberships:

- \$7.00 REGULAR MEMBER Graduate geologists, or equivalent, with one year of practice in geology, or with an advanced degree.
- \$6.00 ASSOCIATE MEMBER Any person or organization desirous of association with the Society.
- \$4.00 STUDENT MEMBER Persons currently enrolled as college students.

A \$2.00 APPLICATION FEE is a one-time fee for all new members, payable when applying for membership.

THE GEOLOGICAL SOCIETY OF MAINE ANNUAL RENEWAL / APPLICATION FOR MEMBERSHIP

| | | | | |
|--------------------------------------|--------|----------|---------------|---|
| Application Fee | \$2.00 | \$ _____ | Name _____ | Make checks payable to: Geological Society of Maine Elizabeth Champeon, Treasurer S.W. Cole Engineering, Inc. 37 Liberty Drive Bangor, ME 04401 |
| Regular Member | \$7.00 | \$ _____ | | |
| Associate Member | \$6.00 | \$ _____ | Address _____ | |
| Student Member | \$4.00 | \$ _____ | | |
| Contributions to GSM | | \$ _____ | | |
| (please write gift or fund on check) | | | | |
| TOTAL ENCLOSED | | \$ _____ | _____ | |

(Geological Society of Maine funds include the Walter Anderson Fund, the Education Fund, and discretionary gifts as noted by contributor)

2002/2003 SOCIETY YEAR BEGINS AUGUST 1 - PLEASE SEND DUES TO TREASURER

THE GEOLOGICAL SOCIETY OF MAINE
c/o Daniel F. Belknap, Newsletter Editor
Department of Geological Sciences
111 Bryand Global Sciences Center
University of Maine
Orono, ME 04469-5790



THE MAINE GEOLOGIST is published three times a year, in mid-winter, summer, and early fall, for members of the Geological Society of Maine.

Return Service Requested

Correspondence about membership in the Society should be mailed to:
Elizabeth Champeon, S.W. Cole Engineering, Inc.
37 Liberty Drive, Bangor, ME 04401

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