



THE MAINE GEOLOGIST

THE NEWSLETTER OF THE GEOLOGICAL SOCIETY OF MAINE

SEPTEMBER
1981

VOL. 8 NO. 1

FALL MEETING ANNOUNCEMENT

TIME - 3:30 PM, FRIDAY, NOVEMBER 20, 1981

PLACE - EARTH SCIENCES DEPT., 215 BAILEY
UNIVERSITY OF SOUTHERN MAINE
GORHAM, MAINE

SCHEDULE - 3:30 to 4:30 PM : Business meeting to be followed by an update on MGS activities and plans.

6:30 to 7:30 PM : Dr. Charles V. Guidotti will discuss new developments in the Appalachian Research Program at UMO, and will present a report on his recent metamorphic compilation map of Maine, discussing how his results relate to the rest of New England.

(Dinner will be available at the USM dining facilities, with adequate time for a brief cocktail hour at the on-campus Pub.)

ANNUAL GSM MEETING - 1981

On the evening of August 1, 1981, about two dozen hearty souls were present around a campfire at Wavus Camps in Jefferson, Maine, when Bob Gerber called the Annual Meeting of the Society to order. Bob started off by thanking Dave Westerman for the use of the facilities and thanking Carol White for the preparation and editing of the Guidebook for Fieldtrips 6, 7 and 8. He then told us that he had been contacted by two outside groups interested in co-sponsoring special meetings like the ones the Society has done in the recent past. Before further consideration of these special meetings, one of the most rapid election proceedings in the Society's history produced the following results:

President:	Bob Gerber
Vice-President:	Florence Hoar
Treasurer:	Fred Beck
Secretary:	Archie Berry
Director:	John Tewhey
Newsletter Editor:	Dave Westerman
Postal Chairman:	Pete Garrett

Back to the special meetings, Bob reported that the Natural Resources Council of Maine was interested in our support of a meeting dealing with Mining in Maine. The group decided that this topic was so similar to that of our special meeting last winter on Maine State Mineral Policy, that the Society should forgo this offer by the NRC. The second invitation came from the American Chemical Society, Maine Chapter, seeking joint sponsorship of a symposium dealing with nuclear waste. After considerable discussion, the members decided to support a concept of meeting with ACS, focusing on hazardous waste and its relationships with ground water. It was decided that Bob would appoint a committee to pursue this invitation (see the symposium announcement elsewhere in this issue).

Finally, a committee of three (Jeff Waters, Irwin Novak, and Dave Westerman) was established to make arrangements for the Fall Meeting (see above), and a report from Art Hussey assured us that Bulletin No. 2 will be going to press in the early Fall. The meeting was then officially ended, but it was too dark to know just exactly what time that occurred.

HAZARDOUS WASTE + GROUND H₂O

OCTOBER 31, 1981 - 1:30 PM - ROOM 105 KEYES HALL

COLBY COLLEGE, WATERVERILLE, MAINE

The American Chemical Society, Maine Chapter, and the Geological Society of Maine are collaborating in the sponsorship of a symposium directed toward questions concerning hazardous wastes and their relationships with ground water systems. Your participation is cordially invited.

MEETING SCHEDULE

- 1:30 PM THOMAS E. EASTLER, PROF. OF GEOLOGY, UM-FARMINGTON: Opening Remarks: What's the Problem? More People Die From Water Than Chemical Waste Anyway.
- 1:55 PM ANDREW L. TOLMAN, HYDROGEOLOGIST, MAINE GEOLOGICAL SURVEY: Ground Water Systems in Maine.
- 2:20 PM JOHN D. TEWHEY, EARTH SCIENCE MANAGER, JORDAN GORRILL ASSOCIATES: Nuclear Waste Technology in the United States.
- 2:45 PM COFFEE BREAK
- 3:00 PM THOMAS POTTER, CHEMICAL ENGINEER, BUREAU OF WATER QUALITY CONTROL, DEP: Interaction of Organic Chemical Pollutants with Soil and Aquifer Materials.
- 3:25 PM ROBERT B. POJASEK, CHEMIST, ROY F. WESTON, INC.: Possible Environmental Fate and Effects of Discharged Chemical Wastes.
- 3:50 PM RICHARD L. KRAYBILL, HYDROGEOLOGIST, ROY F. WESTON, INC.: Hydrologic Considerations in Hazardous Waste Disposal.
- 4:15 PM EDWARD LOGUE, CHEMICAL ADVISOR, BUREAU OF OIL AND HAZARDOUS MATERIALS CONTROL, DEP: Hazardous Waste Management in Maine.
- 4:45 PM COCKTAIL HOUR: Robbins Room, Robert's Union
- 5:45 PM DINNER: Robbins Room, Roberts Union
- 7:00 PM PANAL DISCUSSION: Room 105 Keyes Hall, Science Com plex

(If you plan to attend, please let me or my secretary know by October 23 so that I can estimate the size of the crowd for the Director of Food Services here at Colby.)
Dave Westerman, Dept. Geol., Colby College, Waterville 04901

"And some rin up hill and down dale, knapping the chunky stanes to pices we' hammers, like sae many road makers run daft. They say it is to see how the world was made."
Scott, Sir Walter (1824), St. Roman's Well

GEOLOGIST CERTIFICATION NOW A LICENSING LAW

Robert G. Gerber, Past President, Certification Board
Ash Point Road, Harpswell, Maine 04079

As of 18 Sept. 1981, the Geologists and Soil Scientists Certification Act became more of a licensing law, similar to the one that governs engineers in Maine. 32 MRSA 4903 now reads, in part: "No person may practice or offer to practice geology or soil science in the State without Certification in accordance with this chapter, unless specifically exempted..." Exempted persons include: a) federal employees, b) those persons licensed to practice in another state who are practicing for less than 30 days in Maine in any year, or have moved to Maine and have filed an application for Certification in Maine, or c) State employees working under a transition period that allows them time to qualify to apply for Certification. The "practice of geology" means "performance of geological work or service for the public...wherein the performance is related to the public welfare of the safeguarding of life, health, property and the environment". Practicing geology for the public without Certification is a misdemeanor and punishable by fine or imprisonment, or both.

The Board of Certification has just agreed to adopt a reciprocity agreement with the State of California for licensing geologists. Once Maine receives formal confirmation from the California board, this will be the first formal reciprocity agreement that has been adopted by the Maine board for geologists. For licensees in one state applying for a license in the other, reciprocity will eliminate the need for taking the written examination. California's exam is comparable in length and difficulty with that of Maine's.

For information of Certification requirements, exams, or a list of presently Certified people, contact the Maine Department of Business Regulation, State House Station 35, Augusta, Maine 04333, or call 207-289-3915.

GSM GUIDEBOOKS FOR FIELDTRIPS

The Guidebook for Field Trips 6, 7 and 8 was printed in time for distribution to participants, thanks to the efforts of Carol White. A hundred copies were printed and almost half of them are sitting on a shelf in my office. I will raise the question of what should be done with these when the time comes for New Business at the Fall Meeting. Dave Roy and Tom Lowell have agreed to have us print their Guidebook for Trip 5, just to keep the set complete, and we will have to decide what to do with those, too. Perhaps we should sell them at a reasonable cost to help defray the cost of their production.

The following is a list of the trips contained in the Society's Guidebooks:

- 1977 - Trip 1: Gates, O., The Silurian-lower Devonian rocks of the Machias-Eastport area, Maine
- 1977 - Trip 2: Ludman, A. and Westerman, D.S., The geology of the inland rocks of the Calais-Wesley area, Maine
- 1978 - Trip 3: Hussey, A.M.II, Bedrock geology of the Casco Bay Group in the Portland area, Maine
- 1978 - Trip 4: Pankiwskyj, K.A., Bedrock geology in the Coopers Mills-Liberty area, Maine
- 1980 - Trip 5: Roy, D.C. and Lowell, T.V., Bedrock and surficial geology of the upper St. John River area, northwestern Aroostook County, Maine
- 1981 - Trip 6: Newberg, D.W., Major structural features of the Gardiner and Wiscasset Quadrangles, Maine
- 1981 - Trip 7: Smith, G.W., The Waldoboro Moraine and related glaciomarine deposits, Lincoln and Knox Counties, Maine
- 1981 - Trip 8: Westerman, D.S., Post-Acadian brittle fractures in the Norumbega Fault zone, Brooks Quadrangle, Maine

REPORT ON THE 1981 GSM FIELD TRIPS

This summer, as has been our habit of late, the GSM sponsored two days of field trips in Maine. Don Newberg started off the show in the Gardiner Quadrangle (Trip 6), and with about two dozen cars in tow, the group looked at evidence of multiple deformation. The day was dominated by lively discussions and complicated car chases, ending with a refreshing swim in Damariscotta Lake. Bright and early the next morning, Geoffrey Smith led the car-o-van across the glacial and marine deposits near the Lincoln County / Knox County line (Trip 7). Many of us spent more time in gravel pits than we ever had before, studying spectacular exposures illustrating glacial and post-glacial stratigraphy. After lunch, Dave Westerman led the late hangers-on through the Brooks Quadrangle to examine exposures of cataclastic rocks in the Norumbega Fault zone (Trip 8). Discussions focused on the relationships between those rocks and the ones seen the day before with Don.

All in all, the rocks and the sediments provided enough excitement to keep the group busy and happy for the weekend. Folks headed home with that pleasing fatigue and bit of a boost that comes from exploring with friends.



GUESS WHO? You may think that this is a silly question, but some folks out there may wonder. The lad on the right is our dedicated President, Robert G. Gerber, and the gent on the left is none other than, that's right, the Grand Ol' Man hisself, John R. Rand. (Photo by J.D. Tewhey)

"Old geologists never die; they just cross their
nicks and rotate to extinction."
Gemst, Elga (1979)

PRESIDENT'S MESSAGE

Robert G. Gerber

As I enter my second year as President of GSM, I look back with general satisfaction. The number of articles submitted to the newsletter increased after a period of minimal contributions. We held several informative meetings, including our special meeting for the public on mining in Maine. This year, several other organizations have requested us to co-sponsor special information meetings, which suggests to me that people outside of our membership are favorably impressed with our group's activities. Our annual meeting and field trip was a success, and I thank Dave Westerman for providing the beautiful Saturday night accommodations. We appear to be on the brink of publishing our second Bulletin. Most of all, I am gratified by the pleasant social atmosphere that has continued to dominate the Society's events.

There is room for improvement, however. Since I have been active in the Society, I have noticed a decrease in participation at our events by personnel from both the Maine Geological Survey (MGS) and the staff of the UMO geology department. I am sure that these people have much busier schedules than we consultants who have little to do but attend GSM meetings. And travel time and distance is obviously a consideration, particularly for the UMO staff. But it is the staffs of the MGS and the UMO geology department that have the most to offer to the Society. Because of the large influx of federal and other grant monies in

the past few years, there has been a tremendous increase in the variety and depth of basic geologic research in Maine. Most of this work is being done by people at the MGS and UMO. Much of this work is still in progress, and it will be years before the results are available to the public in published form. By meeting with members of the MGS and UMO staffs, Society members have an opportunity to find out what is going on. Similarly, the MGS and UMO staffs may also learn a few things from the rest of us (it always amazes me how little use is made of geologic information generated in the private sector). I solicit suggestions from the Society on ways to re-kindle the MGS and UMO staffs' interest in our activities. One of my ideas is to request a brief update report from each staff on their research activities, to be presented during each business meeting, similar to what we did with MGS in the past.

Finally, I express special thanks to our recently retired Newsletter Editor and Founding Father, Jack Rand. Jack helped to organize the Society, then he held it together over the years with the strength of his excellent newsletter. The Newsletter is the life-line of this group. We must maintain the quality and timeliness of this publication. Members must continue to submit articles so that we can continue the exchange of Maine geologic information, which is one of our major "reasons d'être". We must give Dave Westerman, our new editor, our support.

As you make your plans for the new academic season, try to dedicate a few hours to Society activities so that we may all be richer from the experience.

WE'VE BEGUN A NEW SOCIETY YEAR - PLEASE SEND YOUR DUES

MEMBERSHIP DUES STATEMENT

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

The Society holds three meetings each year, in the late fall, early spring and (with the Annual Meeting and sometimes field trips) in mid-summer. A newsletter, THE MAINE GEOLOGIST, is published for all members four times a year (more or less), approximately on a quarterly basis starting in September. The Society year runs from August 1st to July 31st. Annual dues and gift contributions to the Society are tax deductible. There are three classes of annual memberships:

- \$5 REGULAR MEMBER - Graduate geologists, or equivalent, with 1 year of practice in geology, or with an advanced academic degree in geology
- \$4 ASSOCIATE MEMBER- Any person or organization desirous of association with the Society
- \$2 STUDENT MEMBER - Persons currently enrolled as students in college who are interested in geology
- \$2 APPLICATION FEE - A one-time fee to all new members, payable when applying for membership

ANNUAL RENEWAL or APPLICATION FOR MEMBERSHIP - THE GEOLOGICAL SOCIETY OF MAINE

NAME _____
(Please print or type)

ADDRESS _____
(Permanent Mailing Address)

_____ Zip Code

Please make checks payable to:

Regular Member	\$5 per year	\$ _____
Associate Member	\$4 per year	\$ _____
Student Member	\$2 per year	\$ _____
Application Fee	\$2 One-time	\$ _____
<u>TOTAL ENCLOSED :</u>		\$ _____

MAIL TO: FREDERICK M. BECK, TREASURER
140 Main Street
Yarmouth, Maine 04096

THE GEOLOGICAL SOCIETY OF MAINE, INC.

THE GEOLOGICAL SOCIETY OF MAINE

TREASURER'S REPORT

FOR THE YEAR ENDED JULY 31, 1981

The paid-up membership included 149 members

Regular	117	
Associate	15	
Student	17	
(Paid-up members 1981-82)	38)	
(Paid-up members 1982-83)	4)	

YEAR END BALANCE STATEMENT

RECEIPTS - Balance over July 31, 1980	\$ 983.27
Dues and Application fees,	
Bulletin Sales and Tax	1187.45
Anonymous Gift	50.00
Interest on NOW Account	58.68
Total Receipts	\$2279.40
EXPENSES - Newsletters, Society Notices	
Printing	\$643.37
Postage	40.00
Label Copying	4.62
Reimbursed Expenses	98.29
Canadian Exchange and Processing	1.81
NEGSA Annual Mtg. - Contribution	100.00
State Tax	.15
Total Expenses	\$ 888.24
BANK BALANCE, Canal Bank @ July 31, 1981	\$1391.16

RECORD OF DISBURSEMENTS - 1980-1981 YEAR

DATE	CHECK #	PAID TO, FOR...	AMOUNT
10/08/80	133	Canadian exchange & handling	1.81
1/05/81	134	J.H. French & Sons	76.73
1/05/81	135	Northeast Direct Mail	4.62
1/05/81	136	Art Hussey (reimb. exp)	9.87
1/05/81	137	Postmaster - Yarmouth	40.00

1/05/81	138	J.R. Rand (reimb. exp)	34.64
1/09/81	139	Robert Gerber (reimb. exp)	3.81
1/15/81	140	State Treasurer - sales tax	.15
2/02/81	141	NEGSA - '81 Annual Mtg.	100.00
3/10/81	142	J.H. French & Sons	185.69
3/25/81	143	J.H. French & Sons	11.81
3/25/81	144	J.H. French & Sons	149.89
6/02/81	145	J.H. French & Sons	80.12
6/25/81	146	J.H. French & Sons	139.13
6/25/81	147	Doris Dubay (reimb. exp)	4.36
7/23/81	148	J.R. Rand (Reimb. exp)	45.61

TOTAL DISBURSEMENTS \$888.24

August 1, 1981

Frederick M. Beck, Treas.

NEW MAINE MAPS

As part of a grant from the Department of Energy, the Maine Geological Survey is preparing new bedrock and surficial maps of the state, both to be published at a scale of 1:500,000. Working groups for both maps met recently at the Maine Maritime Academy in Castine to discuss the form the new maps would take.

Art Hussey (Bowdoin College), Phil Osberg (University of Maine at Orono), and Gary Boone (Syracuse University) have been appointed as chief compilers and scientific editors for the bedrock map. They also have responsibilities as regional compilers along with Gene Boudette (USGS), Bill Forbes (University of Maine at Presque Isle), Olcott Gates (State University of New York-Fredonia), Brad Hall (University of Maine at Orono), Marc Loiselle (MGS), Al Ludman (Queens College), Bob Moench (USGS), and Kost Pankiwskyj (University of Hawaii). Plans now call for the map to be sent to the printer in June, 1983, with publication in late 1983.

Woody Thompson (MGS) and Harold Borns (University of Maine at Orono) will be the chief compilers of the state surficial map. Regional compilers will include Tom Brewer (Boston State College), Dee Caldwell (Boston University), Nick Genes (Boston State College), Bill Holland (E.C. Jordan, Inc.), Tom Lowell (State University of New York-Buffalo), and Jeff Smith (Ohio University). The surficial map is also scheduled to be completed and published in 1983.

THE GEOLOGICAL SOCIETY OF MAINE
c/o John R. Rand, Cundy's Harbor
RD2 - 210A, Brunswick, Maine 04011

THE MAINE GEOLOGIST is published four times a year, more or less, in early Fall, late Fall, late Winter, and maybe June or July, for members of the Geological Society of Maine, a non-profit educational Maine corporation interested in all aspects of the geology of the State of Maine. Correspondence about membership in the Society should be mailed to Frederick M. Beck, 140 Main St., Yarmouth 04096. Items for inclusion in the newsletter may be directed to D.S. Westerman, Dpt. Geol., Colby College, Waterville 04901

President	R. G. Gerber
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Address Correction Requested

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Please send in your dues and current mailing address today