



NEWSLETTER

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Deadline for Next Issue

September 6, 2002

PRESIDENT'S FORUM

Jennifer Bates

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Hello everyone. It is good to talk with you once more. I would like to start by thanking Mike Cherry and his busy editors, Mike MacDonald and Chris White, for their relentless pursuit for geoscience news. The newsletter truly represents the four corners of the Atlantic region.

Even though the joint AGS meeting with GSA Northeastern is months away, there are AGS members working now to develop the program. I encourage all our members to contribute to the program once it is finalized as we have a fine showcase of geological research in the Atlantic Canada to present to our American colleagues.

I have news that I am absolutely delighted to tell you. Chris White and Howard Donohoe have struck a working committee to co-ordinate the updating and printing of the Geological Highway Map of Nova Scotia. I understand they expect to have the new version for the AGS - GSA Northeastern meeting in March 2003.

According to Graham Williams, chair of the Nova Scotia wing of the AGS Education Committee, the group is not resting on its laurels. At a recent meeting, members of the Committee discussed the launching of several activities: the Halifax Harbour video, spin-offs of "The Last Billion Years"

including a colouring book and educational posters, and continuation of the evening talks series at the Nova Scotia Museum of Natural History. The 'senior' activities of the EdGEO workshop program and the EarthNet website are continuing. There are rumblings that New Brunswick is thinking about starting an EdGEO program - good luck to the instigators.

I would like to conclude with a request. I ask that you think about communicating the good news of the Society. As members, we need to tell not only colleagues and research partners but also neighbours, teachers and friends and especially those who have recently moved to the area. Nowhere else in Canada is there a regional geoscience society as active as ours. (I think that means our members are a great group of people.) Communicating and connecting are so important today – from the level of our own projects to the overarching discipline of earth science – and the Society is a wonderful way to do so. Please call me if you would like to talk about how we might spread the word.

Until next time,
Jennifer

EDITOR'S COMMENT

Mike Cherry

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A number of events have conspired to delay publication of this and the previous issue of the *AGS Newsletter*.

I apologize for those delays. In order to get back to the normal quarterly publication schedule, we have decided to not beat the bushes for submissions that would have made this issue longer. Despite its brevity, this issue contains a lot of interesting material. The Editorial Board hopes you enjoy it.

Have a successful and safe summer field season.

GSC ATLANTIC FIELD ACTIVITIES - SUMMER 2002

André Rochon
arochon@NRCan.gc.ca

The Geological Survey of Canada (Atlantic) with its various partners is running a number of field programs on land and offshore throughout the summer and early fall of 2002. Here is a short summary of many of the activities.

The Gulf of Maine habitat mapping programme completed a cruise June 6-16 in the Gulf of Maine. The focus of this work was to obtain regional geological and biological ground truth to support the significant multibeam data coverage in the Gulf. Canadian scientists are co-operating with American and Norwegian colleagues in developing habitat mapping techniques and standards (Brian Todd).

The coastal monitoring network will be maintained throughout the field season with provincial partners in Newfoundland and Labrador and in New Brunswick and will be expanded to include new sites on the Gaspé coast in Québec. Airborne laser altimetry surveys are planned for late October / early November along the southeast coast of New Brunswick in a new project involving Environment Canada, GSC Atlantic, DFO, and various New Brunswick government, academic, and private sector partners (Don Forbes).

With funding from PERD and the

2002-03 Executive and Council of the Atlantic Geoscience Society

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Canadian Space Agency, the GSC Atlantic will be working along the western Arctic coast from the Mackenzie Delta to Kugluktuk (formerly Coppermine) and on Banks and Victoria Islands from July 16 to August 12, investigating coastal sensitivity to climate change and collaborating with the Geodetic Survey Division of Natural Resources Canada (NRCan) to measure vertical crustal motion using GPS (Don Forbes).

Another Hudson cruise, scheduled for August 3 – 13, will collect geophysical data and ground samples in support of an ongoing study to determine long term migration patterns of sediments and determine hazards to engineering in the vicinity of Sable Island (Bob Harmes for Mike Li and Ned King).

Work on geohazard assessment on continental slopes will be carried out

on a Hudson cruise from August 15 to September 5 (David Piper).

A joint study of essential fish habitat will be undertaken on the Scotian Shelf in September, by NRCan and Department of Fisheries and Oceans (DFO). It is the first year of a 3 year co-operative research project to determine the links between seafloor habitat and demersal fish. Results of the research will provide information for management of both the fishery and seabed habitats (Gordon Fader).

During the 2002 field campaign onboard the Japanese vessel RV Mirai (September 21 - October 6) with the help of a multibeam sonar and sub-bottom profiler, three cores will be collected along a transect in the Mackenzie Trough (Beaufort Sea) in order to obtain a high resolution composite sequence covering the last 10,000 years in the western Canadian Arctic. These sediments, together

with those from the Northwest Passage and other straits, will be used to study the history of sea ice over the last 10,000 years in the Canadian Arctic Archipelago. Fossil plankton (dinoflagellate cysts) and geochemistry will provide records of sea surface temperature, sea ice and plankton production with accuracy similar to oceanographic data. We will then compare the impacts of global warming to pre-historical warm-cold cycles on a timescale of 10 to 100 years. The sea ice data will be used to test computer models that predict the future Arctic climate. Our work will also focus on the past 4,000 years of human occupation, with three questions: 1) how are climate shifts and migrations of Arctic societies linked?; 2) how quickly did climate change?; 3) did the warming oscillate between eastern and western approaches?

2002 FIELD PROGRAM OF THE GEOLOGICAL SURVEY OF NEWFOUNDLAND AND LABRADOR

From information provided by Baxter Kean, Geological Survey of Newfoundland and Labrador

The Geological Survey of Newfoundland and Labrador will operate 10 field projects this year. Highlights of these projects are provided below.

Regional Bedrock Mapping

Sean O'Brien will spend up to three weeks in the Bonavista area (NTS 2C/4, 6, 11) on the Avalon project. Approximately two weeks will be in collaboration with Dr. A.F. King of Memorial University in establishing a stratigraphic framework for Bonavista Peninsula and Trinity Bay, in support of red-bed copper exploration in the Avalon Zone. The remaining time will be used for prospector support and field activities related to the Matty Mitchell Prospector Room. Some helicopter field checking will be done in NTS 1N/6 and adjacent areas

following mapping done during 2001.

Ian Knight and Doug Boyce will undertake a 2 month field program as part of the Cambro-Ordovician Carbonates and Paleontology projects. Mapping will be conducted by Knight and a junior assistant at 1:50 000 scale in the Phillips Brook, Georges Lake and Harry's River areas of NTS 12B/9 and 16. Mapping will also be updated along new roads in the St. Anthony (12P/1, 8), Bellburns (12I/5, 6) and Pasadena areas (12H/4). This work will support exploration for carbonate-hosted zinc deposits and marble, and will also provide important information for west Newfoundland oil and gas exploration. Subject to funding by National Geographic Society, biostratigraphic studies may be conducted in western Newfoundland by Boyce and/or Knight with geologists from Sul Ross State University, Texas.

Brien O'Brien plans a 2 month field program in the Notre Dame Bay project. Mapping will be conducted at 1:50 000 scale south and west of Springdale, in parts of NTS 12H/1, 8 and 9 that are underlain by the Ordovician Catchers Pond and Roberts Arm groups. This work will support exploration in rocks that host the Hammerdown (gold) and Gullbridge (copper) deposits. The field work is the first part of a multi-year study intended to decipher the structure and stratigraphy of this complex geological belt.

Bruce Ryan and Don James will spend 2 weeks with continuous helicopter support in the Nain Plutonic Suite project in the Churchill Province (NTS 14D/NE and NW; 24A/NE). This is an initial reconnaissance and planning expedition at the start of a multi-year project to map the inland region from Nain to the Quebec border at 1:100 000 scale. The region includes parts of the Nain Plutonic Suite and crosses the extrapolated boundary between the Nain and Churchill provinces. Its geological position makes it prospective for nickel deposits similar to that at Voisey's Bay.

Mineral Deposits Studies

Lawson Dickson will continue work in the Industrial Minerals Survey project with a 2 month field program in Roddickton and Canada Bay (parts of NTS 12I/09, 12I/16); Back Bay (part of NTS areas 12I/11); Goose Arm (parts of NTS 12G/01, 12H/04); East Bay (part of NTS 12B/10); and Pools Cove (parts of NTS 1M/11, 1M/12) areas. This project is a mainly a follow-up to work carried out by Ambrose Howse and Paul Delaney on marbles, limestones and dolostones throughout western and northern Newfoundland. The dimension stone potential and suitability as industrial carbonates will be evaluated. A new proposed dimension stone occurrence at Pools Cove will be examined to determine its potential. The Cape Anguille area will be examined to see if there is any potential for industrial or metallic minerals.

Paul Moore will begin a new project of Metallogenic Studies in the Tally Pond area of central Newfoundland (NTS 12A/9,10,16). This project is designed to document the mineralization in the Tally Pond Volcanics in terms of its relationship to stratigraphy, chemistry, structure, volcanology and tectonic evolution. It will emphasize both field mapping and sampling, logging and relogging and sampling of diamond drill core from mineral exploration programs. Integration of company and survey data will be an important component of the project. Cooperation with the GSC "Red Indian Line" TGI project will be undertaken whenever and wherever possible. The project will have a 2-month field season

Geochemistry, Geophysics and Terrain Sciences

Martin Batterson and David Taylor will begin a project of Quaternary mapping and till geochemistry in an area between northern Burin Peninsula and the Bonavista Peninsula (NTS 1M/8, 9, 16; 1N 5, 12,13; 2C/4) with a 2 month field program. Detailed

**PRELIMINARY PROGRAM INFORMATION
FOR THE JOINT MEETING OF
NORTHEAST SECTION, GEOLOGICAL SOCIETY OF AMERICA
AND THE ATLANTIC GEOSCIENCE SOCIETY**

**March 27 – 29, 2003
Westin Nova Scotian Hotel
Halifax, Nova Scotia**

General Information

The technical program will include Symposia, Theme Sessions, General Sessions, and an Undergraduate Research Session (posters). Symposia will include both invited and selected volunteered papers. Theme Sessions will include only volunteered papers. General Sessions (oral and poster) will be scheduled on the basis of abstracts received.

Prospective authors for Symposia and Theme Sessions and the Undergraduate Research Poster Session should contact individual convenors (listed below) directly. General questions should be addressed to the Program Co-chairs – Sandra Barr (sandra.barr@acadiau.ca) and David Piper (DPiper@NRCan.gc.ca).

Note that the deadline for submission of abstracts is December 18, 2002.

Symposia

- | | | |
|---|---|--|
| 1. Regional hydrological studies in northeastern America | Yves Michaud
Roger Morin | ymichaud@nrcan.gc.ca
rhmorin@nrcan.gc.ca |
| 2. Eastern North America Mesozoic – Cenozoic margins and their hydrocarbon potential | Paul Olsen
John Hogg | polsen@ldeo.columbia.edu
John.Hogg@encana.ca |
| 3. Evolution of the East Laurentia continental margin, eastern USA – Canada: From Late Proterozoic rifting to Devonian collisions | Denis Lavoie
Ed Landing
A. Tremblay
Sébastien Castonguay | delavoie@nrcan.gc.ca
elanding@mail.nysed.gov
tremblaya@uqam.ca
scastong@nrcan.gc.ca |
| 4. New developments in understanding of the Avalon terrane from southern New England to Newfoundland (sponsored by IGCP 453 – Modern and ancient orogens) | Margaret Thompson
J. Brendan Murphy | mthompson@wellesley.edu
bmurphy@stfx.ca |

Theme Sessions

- | | | |
|---|-------------------------------------|--|
| 1. Metals in the environment | Don Fox
Terry Goodwin | don.fox@gnb.ca
goodwita@gov.ns.ca |
| 2. Metallogeny of the northern Appalachian orogen | Dave Lentz
Dan J. Kontak | dlentz@unb.ca
kontakdj@gov.ns.ca |
| 3. Paleozoic arcs in the northern Appalachian orogen and their accretionary history (Second Annual NETectonics Session) | Leslie R. Fyffe
Cees van Staal | les.fyffe@gnb.ca
cvanstaa@nrcan.gc.ca |
| 4. Mesozoic basalts, sill, and feeder dykes | J. Gregory McHone
John H. Puffer | gregmchone@snet.net
jpuffer@andromeda.rutgers.edu |
| 5. Communicating the critical relevance of earth science | Jennifer Bates | bates@agc.bio.ns.ca |

(continued on next page)

Theme Sessions (continued)

6. History of Geology: Links between the NE USA and Atlantic Canada	John Calder	jhcalder@gov.ns.ca
7. Processes in felsic magma chambers – from crystallization and evolution to emplacement	David Gibson Dan Lux	dgibson@maine.edu dlux@maine.edu
8. Acadian metamorphism in the northern Appalachian orogen – styles, timing and tectonic significance	Rebecca A. Jamieson Robert J. Tracy	beckyj@is.dal.ca rtracy@vt.edu
9. Crustal structure of the northern Appalachian orogen and Atlantic margin	Sonya Dehler	dehler@agc.bio.ns.ca
10. Energy resources of the Paleozoic	Tom Martel Skip Hobbs	tmartel@corridor.ns.ca 73162.1256@compuserve.com
11. Late Glacial – Early Holocene climate and high-resolution records of climate change from lakes	Ian S. Spooner Ray Spear	ian.spooner@acadias.ca rspear@geneseo.edu
12. Ichnology and biofacies	Murray Gingras Andy Pulham	mgingras@unb.ca andy.pulham@mun.ca
13. Geological impacts of extreme events on land and sea (storms, floods, climate variability, tsunamis)	Don Forbes Brian G. McAdoo	forbes@agc.bio.ns.ca brmcadoo@vassar.edu

Undergraduate Research Posters

Graham Williams
Dave Bailey

gwilliam@agc.bio.ns.ca
dbailey@hamilton.edu

mapping of the surficial geology of this area has not been completed, although it contains heavy drift cover. There is no systematic till geochemistry data for the area, which is prospective for mineral exploration. This project will provide a Quaternary geology framework for the evaluation of geochemical data collected in support of active mineral exploration.

John McConnell and Jerry Ricketts will undertake follow-up geochemical surveys in portions of NTS 23H in Labrador. This project is designed to assess the potential for base-metal and PGE mineralization in the area. High-density lake-sediment and water geochemical mapping will be conducted over areas known to have potential for such mineralization on the basis of favourable bedrock geology and reconnaissance geochemistry. The project will have a 2-3 weeks field season.

John McConnell will also undertake

acid drainage remediation monitoring in the vicinity of the former Rambler Mine (NTS 12H/16). The river system for 11 km downstream from the former mine site to the sea has been rendered sterile for aquatic life despite its being otherwise prime habitat for fish and waterfowl. This project will provide data to both determine the extent of the problem at the Rambler site and to gauge the effectiveness in reducing acid drainage that resulted from new dyke repairs performed in the summer of 2000. Annual monitoring samples will be collected over the next 2 years. One week of field work to collect samples will be carried out.

Shirley McCuaig will undertake a 2 month program of surficial mapping and till geochemistry studies in the Jackson's Arm - Baie Verte Peninsula area (NTS 12H/10, 15), another prospective area for mineral exploration for which detailed surficial mapping has not been

completed and for which there is no systematic till geochemistry data.

2002 FIELD PROGRAM OF THE MINERALS AND ENERGY BRANCH, NOVA SCOTIA DEPARTMENT OF NATURAL RESOURCES

From information provided by Bob Boehner and Bob Ryan, Minerals and Energy Branch, Nova Scotia Department of Natural Resources

The Mineral and Energy Resources Division's mapping, geochemistry, and resource assessment activities for the summer of 2002 are summarized below.

Geological Mapping and Geochemistry Section

Ralph Stea will work with Susan Pullan of the GSC and Mary Feetham to complete the surficial geology

component of the Division's collaborative project in south central Cape Breton Island with the GSC as part of the Targeted Geoscience Initiative (TGI). Ralph will undertake field work required to complete 1:50 000 scale surficial geology maps of NTS areas 11F/11 and 11F/14, and will collaborate in the interpretation of results of the shallow seismic surveys and overburden drilling activities done by Susan and Mary. Ralph and Mary will work with local Economic Development Agencies and the Nova Scotia College of Art and Design to investigate potential uses of earthenware clay deposits discovered during surficial mapping in 2000 and 2001.

Mary Feetham will complete her investigation of a variety of drill data for the TGI project. This includes compilation and interpretation of data from water wells and diamond-drill holes in the project area, and compilation and interpretation of data from overburden drilling done under Mary's direction. Mary will also assist Susan Pullan in acquisition and interpretation of new data from Susan's shallow seismic surveys, and will work with Ralph Stea to interpret data from the surficial geology component of the TGI project.

Rob Naylor will devote approximately two-thirds of his time to the bedrock mapping component of the TGI project, where he will work closely with Peter Giles of the Geological Survey of Canada to complete mapping of NTS areas 11F/11 and 11F/14. The remainder of Rob's time will be directed to the division's Carboniferous Basins program. This year, Rob plans strategic Carboniferous mapping to take advantage of recent seismic surveys and new exposures. He will also participate in a project to assess the capacity of Nova Scotia's coal fields to sequester CO₂ (see summary of John Calder's activities).

Terry Goodwin will investigate geochemical variations in rocks, soils and waters throughout Nova Scotia.

The HRM Geochemistry project is determining background geochemical data for soils and tills in the Halifax Regional Municipality, to provide baseline information for land-use planning. This year's field work will focus on the Dartmouth-Cole Harbour area. The Meguma Geochemistry project comprises sampling and analysis of vegetation, humus, soil, till, rocks and soil gas, and will result in a three-dimensional understanding of variances in geochemical characteristics. Terry will also begin a new project, Characterization of Acid Rock Drainage (ARD), which will use bedrock sampling and analyses to develop ARD characteristics for a variety of rock types in Nova Scotia. In addition, Terry will continue to investigate the distributions and environmental implications of cadmium, mercury, strontium and tantalum in a variety of media.

Linda Ham will continue work on the Eastern Shore Compilation project. The objective of this project is to produce a comprehensive knowledge base for gold occurrences along the Eastern Shore. The project has two parts: (1) to capture in digital form all available geological information and produce new interpretive bedrock geology maps, and (2) to complete comprehensive reports on selected gold districts. Linda is responsible for the first part of the project; Paul Smith of the Resource Assessment Section is responsible for the second part. In 2002-03, Linda plans to complete open file maps for NTS areas 11F/03, 11F/04, 11F/05 and 11F/06, and to begin work on 11D/10 through 11D/15, 11E/02 and 11E/03.

Rick Horne will again work with Chris White on the Southwest Nova bedrock mapping project (see next paragraph). He will also continue to investigate the structural geology of the Meguma Group in the Wittenburg Mountain-Rawdon area. Rick plans to continue structural investigations of the Dufferin gold deposit, pending underground access, and will begin a new project to document the geology of the Oldham gold deposit.

Chris White and Rick Horne will complete the final full year of field work for the Southwest Nova bedrock mapping project. This project will produce 1:50 000 scale geology maps for all or parts of the 12 NTS areas that underlie Digby, Yarmouth and Shelburne counties. This year, field work will focus on NTS map area 20P/12. A preliminary map of the area will be released at Mining Matters in October 2002, and a preliminary map of the entire project area is planned for release in March 2003. Chris will also contribute to the bedrock mapping component of the TGI project, where he will focus on pre-Carboniferous rocks in the Creignish Hills and North Mountain areas of NTS 11F/14, and on rocks adjacent to the Chedabucto Fault.

Resource Assessment Section

John Calder will continue studies (including paleoecology, source rock characteristics and thermal maturation) of organic deposits and their host sedimentary basins in support of coal and hydrocarbon exploration and development. This year's activities include participation with Rob Naylor in a collaborative project with Nova Scotia Power Inc., Canadian Clean Power Coalition and Natural Resources Canada to assess the potential of Nova Scotia coal fields to produce coalbed methane and serve as a repository for CO₂. John will also spend considerable time in his capacity as Chairman of the Scientific Subcommittee to develop the application for designation of the fossil cliffs at Joggins as a UNESCO World Heritage Site.

Garth DeMont will continue to develop the mineral deposit inventory for Cape Breton Island. In the 2002 field season, Garth will concentrate on the TGI project area (NTS 11F/11 and 11F/14) so that a complete mineral inventory for the area can be released as part of the final TGI project publication.

Phil Finck will spend much of his time responding to questions and requests

for information about industrial mineral commodities from local and international entrepreneurs and companies. In addition, Phil plans to undertake field and laboratory studies of magnesium resources (with Mike MacDonald and Garth DeMont), and to update the department's 1998 publication on secondary processing of industrial minerals.

Dan Kontak will complete reports for several current projects, including studies of the metallogeny of basement rocks in Cape Breton Island (Stirling, Coxheath and Lime Hill deposits), the metallogeny of Carboniferous rocks (Walton, Brookfield, Lake Ainslie and Lake Enon deposits), pegmatites and related lithophile mineralization in southwestern Nova Scotia, vein textures of Meguma gold deposits, and the geology and petrology of zeolite-bearing North Mountain basalts. Dan will also contribute time as co-host of an international conference on fluid inclusions that will be held in Halifax in July.

Ron Mills will focus on assisting prospectors through consultations, training and visits to properties throughout the province. Ron will also assume responsibility for the Drillholes Database, which formerly was maintained by staff at the Stellarton Core Facility.

George O'Reilly will continue his work on the Mineral Deposits Inventory. Field work will include visits to mineral occurrences in the Southwest Nova bedrock mapping project area (see above), and work to confirm information compiled for the Eastern Shore and occurrences of Fe-oxide-Cu-Co-Au in the Cobequid - Chedabucto Fault Zone of north-central Nova Scotia. George plans to release a new version of the Mineral Deposits Inventory in October, and will begin to investigate ways to modernize the database's software platform and search capabilities.

Garth Prime will continue field and laboratory work to investigate

aggregate resources in the Annapolis Valley. A GIS-based aggregate resource map for Digby County should be completed by year-end. Garth will also begin field mapping and sampling to evaluate potential sites for a bedrock aggregate quarry in the Upper Tantallon/Timberlea area, to identify new sources of aggregate for the rapidly growing Halifax metropolitan area.

Paul Smith will focus on completing current work commitments in 2002-03. Paul will contribute to final publications from a multi-disciplinary study of mercury in the Kejimikujik Lake area, which has operated for the past three years with funding from Health Canada's Toxic Substances Research Initiative. Paul's involvement in this project has led to collaboration with Terry Goodwin to investigate how to discriminate between natural and anthropogenic concentrations of a variety of metals in waters, soils, plants and animals in several areas of Nova Scotia. Paul will continue to work with Linda Ham on the Eastern Shore Compilation project, and will complete comprehensive reports on many gold deposits in the project area. Additional information about this project is contained in the summary of Linda's planned activities.

STUDENT WORKSHOP AT AESE – EASE 2002

Doug MacDonald
drmacdon@gov.ns.ca

The Association of Earth Science Editors (AESE) and the European Association of Science Editors (EASE) will hold a joint meeting from September 14 to 18, 2002 at the Lord Nelson Hotel in Halifax. The meeting will offer the opportunity for editors from state, provincial and national geological surveys to share experiences with editors of the major science journals in North America and Europe.

Presentations during the meeting will focus on a wide range of issues in the field of science communications. Of special interest is a three-hour workshop for students on basic science writing, turning a thesis into a journal article, PowerPoint® presentations and scientific posters. The fee for the workshop is \$20.

Complete details of the meeting are available on the AESE website at <http://www.aese.org/contents.htm>.

Calendar of Upcoming Events

Nova Scotia Gem and Mineral Show 2002. Lions Recreational Centre, Parrsboro, Nova Scotia, August 16 – 18, 2002. For information call 902-254-3814 or see the website at <http://museum.gov.ns.ca/fgm/mineralgem/show.html>.

Association of Earth Science Editors – European Association of Science Editors Joint Meeting. Lord Nelson Hotel, Halifax, Nova Scotia, September 14 – 18, 2002. For information call Doug MacDonald (902-424-2510) or see the meeting website at <http://www.aese.org/contents.htm>.

Annual Review of Activities, Geological Survey of Newfoundland and Labrador and CIM Newfoundland Section Annual Meeting. Delta Hotel, St. John's, Newfoundland, October 30 – November 2, 2002. For information contact Norm Mercer (709-729-6193).

27th. Annual Review of Activities, Minerals and Energy Division, New Brunswick Department of Natural Resources and Energy. Sheraton Hotel, Fredericton, New Brunswick, November 6 – 8, 2002. For information contact Don Carroll (506-453-6642).

Mining Matters for Nova Scotia 2002, Minerals and Energy Branch, Nova Scotia Department of Natural Resources. The Westin Nova Scotian Hotel, Halifax, Nova Scotia, November 13 – 14, 2002. For information contact Mike MacDonald (902-424-2523).

Joint Meeting, Northeast Section Geological Society of America and Atlantic Geoscience Society. Westin Nova Scotian Hotel, Halifax, Nova Scotia, March 27 – 29, 2003. For preliminary information, see pages 4 and 5 of this Newsletter.

Joint Annual Meeting, Geological Association of Canada – Mineralogical Association of Canada – Society of Economic Geologists. Sheraton Wall Centre, Vancouver, British Columbia, May 25 – 28, 2003. For information see the conference website at <http://www.Vancouver2003.com>.

CANQUA 2003, Annual Meeting of the Canadian Quaternary Association. Dalhousie University, Halifax, Nova Scotia, June 8 – 12, 2003. For information contact Ralph Stea (902-424-2528) or see the conference website at <http://www.gov.ns.ca/natr/meb/canqua/Canqua.htm>.

To list your event, send information to the Newsletter Editor (see page 1).