



ATLANTIC GEOSCIENCE SOCIETY NEWSLETTER

Volume 37, Number 1, January 2008



This colourful and geologically-interesting cliff face is located just to the east of Parrsboro, along the north shore of Nova Scotia's Minas Basin; it is easily accessible from the Glooscap campground (tide permitting). To the left are mainly Triassic red beds of the Blomidon Formation, overlain by the early Jurassic North Mountain Basalt. These are faulted against Carboniferous rocks to the right, with a mix of fault rocks in between. Further delights await the visitor who keeps walking east towards Clarke Head, where spectacular fault rocks are exposed. Photograph: Rob Fensome.

PRESIDENT'S FORUM..... 2

AGS ACTIVITIES

34th Colloquium and Annual Meeting... 3

Call for Suggestions. 3

REGIONAL NEWS AND UPDATES

The North American Soil Geochemical
Landscape Project (NASGLP). 3

International Year of Planet
Earth 2007-2009..... 4

Acadia University..... 5

University of New Brunswick..... 6

Book Review..... 7

**ATLANTIC UNIVERSITIES
STUDENT THESES..... 8**

UPCOMING EVENTS..... 16

**FINAL CIRCULAR FOR THE
AGS COLLOQUIUM..... attached**

The deadline for submissions to the next issue is
March 28, 2008 Please send articles or feedback to:

John Shimeld, AGS Newsletter editor
Geological Survey of Canada (Atlantic)
P.O. Box 1006, Dartmouth, NS B2Y 4A2
(902) 426-6759 John.Shimeld@nrcan.gc.ca

Production of this newsletter is by Nelly Koziel.

PRESIDENT'S FORUM

Happy International Year of Planet Earth!

This Fall and Winter have been full of activity for AGS, and preparations for the 34th AGS Colloquium and Annual General Meeting are in full swing. Just in case you've been living under an erratic, the meeting will be held at the Holiday Inn Harbourview in Dartmouth, NS, on February 1st and 2nd. Please note that we're starting the technical program at 2:00 pm on Friday afternoon this year, and business meetings will be held on Friday morning at the hotel. The earlier start will allow us to celebrate AGS' 35th Birthday Party Friday evening following the talks, and was necessary to accommodate an overwhelming demand for special sessions. Graham Williams and the Technical Program Committee have assembled an excellent program that includes six special sessions, a general session, a Climate Change Panel and a geochronology mini-course that will run at Dalhousie University on Sunday, February 3rd. Unfortunately, we've had to revert to running three concurrent sessions, except on the Friday evening when two are planned. We're also anticipating some excellent poster submissions, so there will plenty for everyone to enjoy. Keep a close eye on the AGS website for details, and if you haven't done so already, submit your registration form as soon as possible.

Another important change that we've made this year is the addition of a new award for Best Graduate Student Oral Presentation. The Rupert H. MacNeil Award will now be awarded for the Best Undergraduate Student Oral Presentation. AGS Council needs your help in naming the new graduate student award—please see the Call for Suggestions later in this newsletter.

As part of AGS' 35th Birthday Party, we'll also be running a PowerPoint slide show with photos of past AGS events, field trips, activities, etc. We need YOUR help to make this happen! Please look through your photo collections for pictures of AGS members (even if they are somewhat incriminating) and submit them to me at Michael.Parsons@NRCan.gc.ca. We'll need photos no later than Friday, January 25th to ensure they're included in the slide show. If you have witty captions to include, these are also most welcome. Photos should be submitted in JPEG format, or alternatively, in a PowerPoint file. If the photos are too large for e-mailing, please drop them on our incoming FTP site at: <ftp://gsca.nrcan.gc.ca/incoming/Parsons/>. Photos will not be redistributed without the owner's permission. If you don't mind contributing these to the AGS archives for future slide shows, please let me know.

As this is my last President's Forum, I'd like to sign off by thanking the AGS Executive, Councillors, AGS committee members, and the many other volunteers who have helped to keep the AGS wheels turning this past year. It has been very inspiring to work with so many talented and dedicated volunteers, and I sincerely appreciate the opportunity to have served as the Society's 35th President. I look forward to seeing all of you at the Colloquium next month.

Michael Parsons
Michael.Parsons@NRCan.gc.ca

AGS ACTIVITIES

Atlantic Geoscience Society 34th Colloquium 1-2 February 2008 Dartmouth, NS

Please read the Final Circular, which is attached to the end of the Newsletter.

Call for Suggestions

Best Graduate Student Oral Presentation Award

The Atlantic Geoscience Society has recently established a new award for Best Graduate Student Oral Presentation. This Award will be presented each year to a M.Sc. or Ph.D. student who presents a paper at the Annual Colloquium. AGS Council is asking all members of the Society to please submit suggestions for naming this new Award. The Award will be named after an AGS member (past or present) who has made significant contributions to the advancement of geoscience in the Atlantic region.

Procedure

- 1) A statement of no more than 500 words, succinctly explaining why the candidate meets the selection criteria.
- 2) The nominator shall be a member in good standing of the AGS at the time of nomination.
- 3) A sub-committee of AGS Council will review the nominations and announce the name of the new Award in the Spring 2008 newsletter.

Deadline

February 15, 2008

All suggestions should be submitted electronically to:

Dr. Michael Parsons
President, Atlantic Geoscience Society
Geological Survey of Canada (Atlantic)
1 Challenger Dr., P.O. Box 1006
Dartmouth, NS B2Y 4A2

Telephone: (902) 426-7363

Facsimile: (902) 426-4104

E-mail: Michael.Parsons@NRCan.gc.ca

REGIONAL NEWS AND UPDATES

The North American Soil Geochemical Landscape Project (NASGLP)

The NASGLP, also referred to as the Tri-National Soil project, is a comprehensive soil project that will provide baseline continental data on soil geochemistry. Initiated and directed in Canada by the Geological Survey of Canada, it is a cooperative project between the geological surveys of Canada, Mexico and the US. The seed was planted at a meeting in Ottawa in the fall of 2006 by the survey branches of the Nova Scotia and New Brunswick Departments of Natural Resources and the Atlantic division of Environment Canada to use the Atlantic Provinces as a "first to cover" area, because of the relatively small land mass and good road access.

After a further planning meeting at the 2007 AGS Colloquium in Moncton, it was clear that both provincial government branches were keen to get started on this significant and important project. Environment Canada, Health Canada, and Agriculture and Agri-food Canada, also pledged their help and participation (with funding, expertise and, in some cases, staffing).



Field sampling for the NASGLP project in northern New Brunswick. In the foreground is a soil pit and sampling gear with buckets and an auger. A soil permeability meter and radon measurement kit is in the background. Photograph: Mike Parkhill.

An initial field orientation and sampling protocol workshop was held in the Fredericton area in early June and subsequently New Brunswick (116 sample sites), Nova Scotia (55 sites) and Prince Edward Island (9 sites) were sampled during the summer. In New Brunswick, sampling teams were

led by Mike Parkhill and Toon Pronk (NBDNR), while Terry Goodwin (NSDNR) took care of things in Nova Scotia.

The project (now also known as the Maritime Soil Project) will provide background data for soil chemistry, soil radon levels, radiometrics, and toxicology. Eighteen sample types from specific soil horizons were obtained for the organizations involved which, in addition to the provincial departments of natural resources, include: Health Canada, Environment Canada, Agriculture and Agri-food Canada, GSC, National Forestry Inventory (NRCan), USGS (Anthrax).

Radiometric and soil radon data were recorded at each site and special samples were taken for Environment Canada Atlantic for soil toxicology tests. A few presentations on the project will be part of the upcoming AGS Colloquium and reports will also be presented at a national meeting in Ottawa this February 27-28.

It is envisioned that the database will be integrated with the National Land and Water Information System and will create a more in-depth understanding of the linkage between soil geochemistry and environmental and human health. It will provide comprehensive background data for many variables that will be useful in setting guidelines in policy and planning. The data will eventually cover the entire continent and will be available for and to a wide range of applications, issues and disciplines.

Toon Pronk
Toon.Pronk@gnb.ca

International Year of Planet Earth 2007-2009



Background

The idea of an International Year of Planet Earth (IYPE) was launched in 2000 at a council meeting of the International Union of Geological Sciences (IUGS). Proclamation of an International Year was seen as a potentially powerful means of demonstrating how society could benefit from the accumulated knowledge of the solid Earth. Following a feasibility study, immediate support was provided by the Earth Science Division of the United Nations Educational, Scientific and Cultural Organization (UNESCO). It was decided in 2002 to seek proclamation of the IYPE by the General Assembly of the UN.

On August 26, 2004, the joint Council of IUGS and the International Geological Congress, together representing Earth

science communities in 140 countries and regions, adopted a Declaration on the International Year. This invited UNESCO's Executive Board to adopt the IYPE, considering that:

- the geosciences can contribute significantly to a safer, healthier and wealthier world;
- this potential contribution is seriously under-used by society and should be substantially increased;
- proclamation of an international year under the aegis of UN member states would help the Earth sciences to make their full contribution to the sustainable stewardship of the planet.

Proclamation of 2008 as the International Year of Planet Earth was effected at the UN General Assembly in New York on 22 December 2005. At least three years will be needed to realize most of the ambitious science and outreach plans, and the Year's triennium will thus run from 2007 to 2009.

IYPE is an ambitious program of outreach and research activities designed to raise global awareness of the vast but often under-used potential of earth sciences to improve quality of life on the planet. The program envisages a significantly expanded role for the earth sciences in building a healthier, safer, and wealthier society, which is encapsulated in the IYPE tag line: "Earth Science for Society". The program is based around ten scientific themes: Groundwater, Hazards, Earth and Health, Climate, Resources, Megacities, Ocean, Deep Earth, Soil - Earth's Living Skin, and Earth and Life, with a strong emphasis on outreach to ordinary citizens of the planet. More information can be obtained at www.yearofplanetearth.org

The Canadian National Committee and its Plans

National committees have been established in more than sixty countries.

The Canadian National Committee (CNC) was established in late 2006 under the chairmanship of John Boyd (see www.iypecanada.org for a full listing). It released its first brochure in time for the May 2007 meetings of Canadian earth science societies and has recently released a new one aimed at fundraising (this latter version is available under "Media Kit" at the national web site - see above).

The CNC has adopted a theme entitled: WHERE on Earth, WHERE in Canada. WHERE stands for Water, Hazards, Energy, Resources and Environment. Projects have been solicited from across the country and fundraising is underway to support the projects. About twenty proposals have been made including a new popular book on the Geology of Canada called "Four Billion Years and Counting: Canada's Geological Heritage" (<http://cfes-fcst.ca/fby/>). The book will be a joint product of the Canadian Federation of Earth Sciences and a private publisher, yet to be identified. It will be published in late 2008. Other proposals include a web site to give details to students on Earth Science careers, Earth Science through

music in the schools, a national lecture tour, a national contest on the importance of resources in our lives, workshops for teachers of Earth Sciences, fact sheets on Earth Sciences, and several other regional projects across the country.

Former Canadian astronaut, Dr. Roberta Bondar is the Honorary Patron of IYPE in Canada.

Some Completed Projects

A number of projects have already been completed. Canadian IYPE was a co-sponsor of a new Canadian Broadcasting Corporation five-part television series called “A Geologic Journey” (www.cbc.ca/geologic). The series was shown in September and October 2007 and an advertisement for IYPE was shown twice during each airing of the shows.

A series of thirty-two fact sheets on Mineral and Energy resources has been released on the Geological Association of Canada web site at: www.gac.ca/populargeoscience. These are available for free download and are a valuable source of simple information on many resources topics including such things as gas hydrates, uranium, oil sands, gemstones, mineral deposits and industrial minerals. The fact sheets were put together by a team of authors based at the Geological Survey of Canada in Calgary, with contributions from specialists in many institutions.

One of the principal proposals for IYPE is the GeoTime Trail. A prototype of the concept has been partially completed in the Waterloo region. The GeoTime Trail is designed to be a 4.567 km long trail that will eventually make its way from a common start and end point as a loop trail. The distance corresponds to the current estimates of the age of the Earth at 4.567 billion years. Every metre along the trail represents one million years of geological time, and each single millimetre represents 1,000 years. The first part of this trail was opened on 21 October 2007. If you are interested in more information, please contact Alan Morgan at the University of Waterloo.

A small poster on the mineral and energy resources required to build and run a snowmobile has been released by Mining Matters of the Prospectors and Developers Association of Canada in association with staff from the Geological Survey of Canada. This handy poster provides information on the minerals required to build a snowmobile and where in Canada and elsewhere in the world they can be found. If you are interested in obtaining this product, please contact Mining Matters at MiningMatters@pdac.ca.

Another recent release is the Northern British Columbia Geological Landscapes Highway Map, a joint project of the B.C. Geological Survey and the Geological Survey of Canada (B.C. Geological Survey, Geofile 2007-1; see also www.geoscape.nrcan.gc.ca). This is a basic geological map with descriptions of all the key geological regions and a compendium of sixty-eight photographs of a variety of

geological localities along the highways of northern British Columbia. The map covers the area from Kitimat and Quesnel north to the border with the territories and includes the Queen Charlotte Islands.

A poster has been prepared for display at the many scientific meetings that take place in the last quarter of the year.

Get Ready and Get Involved

The success of IYPE will depend on the fundraising campaign and the degree to which Canadian earth scientists support the project. If all goes well, it will be a banner year for earth science that results in many products to educate and enlighten Canadians for years to come.

Godfrey Nowlan, Program Chair, IYPE
Godfrey.Nowlan@nrcan.gc.ca

Acadia University

We were particularly happy to see the end of this difficult Fall term at Acadia. As an aftermath of the strike by AUFA, the Acadia faculty union, the term was extended by one week and the examination period compressed. Everyone—faculty and students—had to work extra-hard as a result, but we all survived. It is behind us, and we are facing the Winter term with renewed enthusiasm, as well as optimism that the recent strike will be the last ever by AUFA. So if we all seem particularly upbeat at the upcoming Colloquium, you will understand why.

We are proud of the student group from Acadia who managed to attend the AUGC without the usual level of back up from faculty, and especially Tim Cross and Kara-Lynn Scallion, who gave presentations based on their honours thesis work. Kara’s poster “Phosphate Deposits in Cambrian Rocks of Avalonia in the Saint John Area, New Brunswick” was co-winner of the Imperial Oil Best Poster award.

Graduate student Gabe Nelson was awarded the best poster in sedimentology at the recent Geological Society of America conference in Denver, Colorado. His poster entitled “Shallow-water Phosphorite Accumulation in the Paleoproterozoic Baraga Group, Michigan, USA” documents his findings in his MSc thesis, under the supervision of Peir Pufahl.

In November, we received a visit from Jim Manning of the Woods Hole Oceanographic Institute who delivered a fascinating talk on the topic “Why do we care about circulation patterns around the Gulf of Maine and the Bay of Fundy?” The visit came about because our technician, Don Osburn, had picked up a “drifter” on the shore of the Bay of Fundy released in Massachusetts by Jim, who came by to pick it up (along with numerous others found mainly by fishermen in the Bay of Fundy region). GPS receivers tracked the crazy

travel path of Don's drifter on its circuitous (literally) voyage to Nova Scotian shores.

Ian Spooner and Rob Raeside attended the American Geophysical Union conference in San Francisco in early December, where they presented a poster on a research project that has been undertaken by most of the members of the department. The poster documents the discovery of an impact crater on the South Mountain, south of Bridgetown, likely formed by a meteorite or comet impact about 12,000 years ago. While the oval crater is well documented from magnetic, ground penetrating radar, and topographical features, its confirmation as an impact structure came from mineralogical analysis of ejecta and surrounding rocks. Its preservation indicates a post-glacial origin and, interestingly, an inorganic layer found in lake sediment records elsewhere in Nova Scotia may represent the sudden input of sediment from such an event. Woody material above the inorganic layer dates to 12,504 BP. The poster attracted much attention at the conference, because a recently released paper postulates that a globally felt impact at 12,900 BP was responsible for the extinction of the Ice Age megafauna and possibly even the Clovis culture of people in North America. This impact has (had?) no known associated structure, and much interest surrounded the Astrid crater at Bridgetown as a possible component of this event.

The term ended on a positive note for graduate students Doug Stiff and Aaron Satkoski, both of whom defended their M.Sc. theses in early December. Doug is working with the Department of Environment in Kentville, NS, and Aaron has begun a Ph.D. programme at Syracuse University. Congratulations to both (and to their supervisors).



Photograph: Sandra Barr.

The term also ended on a positive note for Peir Pufahl, who took delivery of a new cathodoluminescence (CL) microscope at the end of November. CL is the phenomenon whereby light

is emitted by a material when it is impacted by an electron beam and is used to study the structure within materials. When combined with a petrographic microscope, the texture of a rock can be viewed simultaneously with CL and light. In the photo below you can see Peir enjoying his new machine.

Sandra Barr
Sandra.Barr@acadiau.ca

University of New Brunswick

At UNB this fall we were very pleased to have three bright students complete their B.Sc. theses. Kristy-Lee Beal presented on "The Zealand Station beryl (aquamarine) deposit, west-central NB: Mineralogic, geochronologic, and petrogenetic constraints" (Supervisor: Dr. David Lentz). Kim Klausen presented on "Origin of glass-coated crustal xenoliths from the Rockeskyller Kopf Volcano Quaternary West Eifel Volcanic Field, Germany" (Supervisor: Dr. Cliff Shaw). Angela Page researched the "Distribution, form, and origin of gold and silver related to the Boomerang and Domino volcanogenic massive sulfide deposits—Tulks Belt, central Newfoundland" (Supervisor: Dr. David Lentz). Congratulations to them all.

We played a very active role this year at the Exploration and Mining New Brunswick meeting held in Fredericton in early November. What an impressive meeting the NB Department of Natural Resources held this year; congratulations to NB DNR-Minerals, NB PDA, and NB CIM for organizing this.

Dave Lentz gave his CIM Distinguished Lecturer presentation on "Developing the orogenic gold deposit model: Insights from R&D for exploration success". Later on the following day, Kristy-Lee Beal, Dave Lentz, Douglas Hall (UNB), Greg Dunning (Memorial University of Newfoundland), and Kay Thorne (NBDNR) presented a talk on the "The Zealand Station beryl (aquamarine) deposit, west-central NB: Mineralogic, geochronologic, and petrogenetic constraints", as well as a poster, both of which were very well received. Adrian Park (UNB), Clint St. Peter (NBDNR), and Dave Keighley (UNB) talked about their research on "Basement-Carboniferous cover relationships, Jordan Mountain, Kings County, NB". In the afternoon session, Sabine Schwarz and Dave Lentz (UNB) presented a talk and poster on "Gold deposits in the Elmtree Inlier, northeastern NB". Towards the end of the day, Dave Shinkle and Dave Lentz (UNB) presented a talk and poster on "The Long Lake uranium occurrence: A uraniferous polymetallic vein system in the Canadian Appalachians".

The Geology Graduate Student Association (GAGS) were lead on a field trip by Adrian Park (UNB) around various parts of the Moncton basin in early November. They had a great time I hear, but got a bit of snow, which reminded them that field

trips, like field work, should be done during the warmer rather than the colder 6 months! We also had a field trip to the Potash Corporation of Saskatchewan's operation that is undergoing phenomenal expansion with 1.6 billion invested in new developments on the deposit. We extend our thanks to Brian Roulston (Mine Geologist) for arranging for this field trip.

In October, Heather Jamieson (Queens University) gave a talk on "Complex secondary mineral assemblages in arsenic-rich mine tailings from Nova Scotia". In early December, Ross Gilders of the New Brunswick Research and Productivity Council (Fredericton) presented an overview of "RPC mineral processing laboratory: serving the mining industry" as a visiting lecture. In mid December, Sarah T. Stewart of Harvard University presented on "Impact craters as windows into the climatic history of Mars."

This year the Dr. Ernie Hale trip will be going to Iceland at the end of the winter term with Prof. Joe White. The new Silver Standard Resources-McAllister Field Trip will be going to southern Nevada and northern Arizona over the March break immediately after the UNB Alumni Meet and Greet (New Brunswick Room, Royal York Hotel) during the PDAC to visit various copper and gold deposits, the Grand Canyon, and much more, lead by Prof. David Lentz. You will hear much more about these in the future.

David Lentz
dlentz@unb.ca

Book Review

"Canada Rocks: The Geological Journey"

By Nick Eyles and Andrew Miall
ISBN-13:987-1-55041-860-6
ISBN-10: 1-550410860-2
Fitzhenry and Whiteside Limited, 195 Allstate Parkway,
Markham, Ontario
450 pages

This massive, lavishly illustrated tome by two highly respected earth scientists is a definite treat for any student of the Earth. Excellent descriptions of plate tectonic processes and the attendant geological implications are given from an almost completely Canadian perspective. Anyone who has done even a small number of field excursions in this country will find examples here with which they can closely identify. The book offers a grand tour of Canadian geology.

The tectonic evolution of the land through time is very well illustrated with recent interpretations that do not ignore the various problems or enigmas that still remain to be solved. The multi-faceted topic of stratigraphy is a recurring theme

that is consistently shown with good illustrated examples. In keeping with a generalist approach, there are frequent historical vignettes inserted throughout the book on people and events of a geological nature. If you are looking for interesting, socially-relevant topics in Canadian geoscience, this book provides dozens of examples picked from history, paleontology, diamond exploration, geohazards, environmental pollution and current climatic change issues, to name just a few.

Overall, this book contains a tremendous amount of information, with good references and a remarkable number of images. That being said, there are a surprising number of editorial slips. The layout of text and illustrations is sometimes out of sequence, some of the captions for the illustrations are wrong, and there is an annoying number of drafting errors or omissions (missing scale bars are anathema for any geological image). Some images lack informative captions, and many images extend across two pages which, in this reviewer's opinion, does not enhance the visual appeal. There are also several images with poor resolution and less than optimal colour rendering. Finally, some of the diagrams contain factual errors. For example, on a map showing the location of the Montagnais meteorite impact structure offshore Nova Scotia, the Montagnais well, after which the impact structure was named, is mislabeled as being the Mohawk well.

For a geological epic of continental scope, the number of problems in the book is relatively small; on the positive side, the minor glitches should keep the reader alert and vigilant. Overall the quality of information shown is of a high standard. This reviewer, for one, looks forward to a revised and hopefully better edition in the future but, for the present, this book is still highly recommended for all geoscientists.

Christopher D. Jauer, P.Geoph.
Chris.Jauer@nrcan.gc.ca

ATLANTIC UNIVERSITIES STUDENT THESES

The following list was compiled by Nelly Koziel using information from university websites.

ACADIA UNIVERSITY		
Student Name	Topic	Supervisor (s)
K. Almack	B.Sc. - Biodiversity assessment of agricultural riparian areas of the upper Cornwallis River and tributaries	S. Bondrup-Nielsen
T. Cross	B.Sc. - Lithochemical vectors toward gold mineralization in the Amaranth Vein, Union Hill Deposit, Waihi, New Zealand	C. Stanley
K. McDonald	B.Sc. - Sedimentological records of the Holocene history of the Labrador Current	D. Piper I. Spooner
K-L. Scallion	B.Sc. - Phosphate deposits in Cambrian rocks of Avalonia in Saint John, New Brunswick, area: insight into the evolution of Paleozoic life?	P. Pufahl S. Barr
E. Vost	B.Sc. - Nova Scotia's American marten: a study in the development and application of population survey techniques	S. Bondrup-Nielsen
C. Bates	M.Sc. - Sea-level changes in the Bay of Fundy region: isostatic and eustatic controls	I. Spooner T. Webster
D. MacDonald	M.Sc. - Mineralogy and paragenesis of the Ni-Mo-layered sulfide horizon: a potentially new type of stratiform SEDEX deposit, Yukon Territory	P. Pufahl L. Groat
T. Moss	Lithochemistry of hydrothermal alteration at the Pampalina porphyry Cu deposit, Region 2, Chile	C. Stanley
P. Nankamba	M.Sc. - Geology, geochemistry, and mineralogy of the Three Mile Plains U deposit, Nova Scotia	C. Stanley
M. Tucker	M.Sc. - Geology and mineralization in the Faribault Brook area, western Cape Breton Island, Nova Scotia	S. Barr
S. Anderson	M.Sc. - Chemical sedimentology of Paleoproterozoic phosphatic iron formation in the Labrador Trough and the evolution of the early ocean	P. Pufahl
A. Locke	M.Sc. - Glacial stratigraphy and till geochemical dispersion controls associated with the Brazil Lake Pegmatite, Yarmouth County, Nova Scotia	C. Stanley I. Spooner
S. Lyon	M.Sc. - Source(s) of magnetic and gravity anomalies on the Scotian shelf south of Cape Breton Island and onshore-offshore geological correlations	S. Barr S. Dehler
G. Nelson	M.Sc. - Chemical and physical paleoceanographic constraints on Paleoproterozoic phosphorite and iron formation accumulation, Baraga Group, Michigan, USA	P. Pufahl
A. Satkoski	M.Sc. - Chemical and Sm-Nd isotopic compositions of sedimentary and metasedimentary units in the Avalon terrane, southern New Brunswick	S. Barr
D. Stiff	M.Sc. - Investigation flood risk in an ungauged watershed in a coastal environment using LiDAR and GIS tools	I. Spooner
DALHOUSIE UNIVERSITY		
O. Aghaei	Ph.D.	M. Nedimovic
F. Akram	Ph.D.	G. Wach
J. Antinao-Rojas	Ph.D.	J. Gosse

H. Archibald	B.Sc.	
T. Barresi	Ph.D.	J. Dostal
A. Bashforth	Ph.D. - Paleocology of extrabasinal plant assemblages during the Pennsylvanian	M. Gibling H. Falcon-Lang
J. Braid	M.Sc.	B. Murphy
V. Brake	M.Sc.	G. Wach D. Mosher
J. Butler	M.Sc. Honours	B. Jamieson
Clarke Campbell		M. Nedimovic
Calvin Campbell	M.Sc.	G. Wach D. Mosher
J. Cribb	M.Sc.	M. Nedimovic
J. Cullen	Ph.D.	K. Louden
A. Diochon	Ph.D. - The effects of repeated forest harvesting on the spatial distribution and decomposition potential of soil carbon in a temperate coniferous forest in Nova Scotia	H. Beltrami
L. Dolansky	Ph.D.	G. Pe-Piper
L. Eliuk	Ph.D. - Abenaki reef margins (Jurassic-Cretaceous) - Canada's youngest reef gas reservoir system, offshore Nova Scotia	G. Wach
A. Fage	B.Sc.	
D. Finlayson	B.Sc.	
J. Gerlings	Ph.D. - A deep seismic analysis of the Flemish Cap continental margin of Newfoundland	K. Louden
O. Gibb	M.Sc.	Scott
M. Giles	M.Sc.	D. Mosher M. Nedimovic G. Wach
S. Goss	M.Sc.	G. Wach D. Mosher
S. Gradmann	Ph.D.	C. Beaumont
J. Griffiths		Scott
D. Haider	B.Sc.	
M. Halliday	B.Sc.	
A. Hidy	M.Sc.	J. Gosse
T. Huppertz	M.Sc.	Piper
O. Imbarek	M.Sc.	G. Wach
D. Kellett	Ph.D.	D. Grujic

M. Kettanah	B.Sc. (Research Project)	G. Wach
A. Layman		A. Anderson
J. Loxton		M. Melchin
C. MacDonald	M.Sc.	M. Nedimovic
A. MacKay	B.Sc.	
D. McLeish	B.Sc. (Honours) - Geology, petrology and metamorphic history of western Algonquin Park: implications for the tectonic evolution of the western Grenville Orogen	N. Culshaw
S. Mohamed	Ph.D.	Scott
T. Muth	B.Sc.	
E. Negulic	B.Sc.	
A. Orozco-Garza	Ph.D.	J. Dostal M. Zentilli
S. Sikaneta	M.Sc.	L. Plug G. Wach
K. Simpson	M.Sc. - Sequence stratigraphy and seismic geomorphology of the West-Central Scotian Slope	G. Wach
D. Skilliter	Ph.D.	G. Wach
M. Stevens	Ph.D.	H. Beltrami
K. Vaughan	M.Sc.	D. Godfrey-Smith
H. Vincent	Ph.D.	G. Wach
S. Yaehne	B.Sc.	
C. Yakymchuk	B.Sc.	
MEMORIAL UNIVERSITY		
C. Bartlett	M.Sc. - Geophysical investigations of southern Grand Banks	M. Enachescu
S. Brandstaetter	Ph.D. - Deltaic sediment dynamics	S.J. Bentley
C. Buchanan	Ph.D. - Title: Structural Controls and Metallogenesis of Au-bearing Meso- and Epizonal Veins; Gander Zone, Central Newfoundland	T. Calon
C. Burridge	M.Sc. - Isotope Tracing of Atmospheric Aerosols in the Subarctic Pacific	
A. Dearin	M.Sc. - Provenance of reservoir sandstones, White Rose Field, Grand Banks, Newfoundland	R. Meyer M. Enachescu
C. Diner	Ph.D. - Relationship between material and wavefront symmetries	M. Slawinski A. Bóna
R. Burton-Ferguson	Ph.D. - Tertiary Evolution of the Orphan Basin, Offshore Newfoundland	R. Hiscott M. Enachescu

C. Fisher	Ph.D. - Geochronology and geochemistry of lower crustal xenoliths	J. Hanchar H. Longrich
B. Gacal	M.Sc. - Seismic and Sequence Stratigraphy of Grand Banks	A. Aksu M. Enachescu
M. Greene	M.Sc. - The diagenetic evolution and porosity development associated with dolomitization in the Catoche Formation, Port au Choix Peninsula, Newfoundland	K. Azmy
A. Haddow	Visiting Ph.D.	E. Burden
W. Hamlyn	M.Sc. - Interpretation of gravity, magnetic, and seismic data from the Parson's Pond - St. Paul's Inlet area, Western Newfoundland	H. Miller
V. Hardy	M.Sc.	J. Wright M. Enachescu
S. Hinchey	M.Sc. - Measuring the timing and duration of magma pulses adjacent to pre-existing olivine-bearing rocks near Nain, Labrador	P. Sylvester
P. Huelse	Ph.D. - River-ocean interactions in Hudson Bay	S.J. Bentley
M. Huminicki	Ph.D. - A Comprehensive Geological, Mineralogical, and Geochemical Evaluation of the Voisey's Bay Ni-Cu-Co Sulfide Deposit: An Integration of Empirical Data and Process Mechanics	P. Sylvester L. Cabri
B. Isler	Ph.D.	A. Aksu R. Hiscott
K. Janes	M.Sc. - Evaluation and Characterization of the Nickel-Copper (PGE) Sulphide Potential of the Shabogamo Gabbro, western Labrador	D. Wilton
S. Kearsy	M.Sc. - Integrated Study of the Tectonic and Stratigraphic Evolution of the Orphan Basin	M. Enachescu J. Wright
C. Kennedy	M.Sc. - Physical Properties and Geophysical Correlation of the Lac de Gras Kimberlites and Host Rock at Diavik Diamond Mine, NWT	H. Miller
V. Khoriakov	Ph.D. - Advanced oil wellbore simulations as a key to enhanced oil recovery	T. Johansen
Y. Kinakin	M.Sc. - Mantle Modelling	A. Leitch
J. Koops	B.Sc. - A Geophysical Investigation of the Boomerang Massive Sulphide Deposit	H. Miller
J. Lake	M.Sc. - Geology and Geochemistry of the Beaver Brook Antimony Deposit, Central Newfoundland	D. Wilton
G. Lethbridge	M.Sc. - Reservoir Characterization of the Hibernia Formation, Terra Nova Field, Grand Banks, Newfoundland	C. Hurich R. Meyer
D. Lowe	M.Sc. - Detrital heavy mineral provenance of Mesozoic and Tertiary sandstones in the Flemish Pass and Orphan Basins	P. Sylvester M. Enachescu
C. Marion	M.Sc. - Age and origin of the Impact Melt at Mistastin Lake crater, Labrador	P. Sylvester D. Wilton
C. McCallum	M.Sc. - Processing of non-vertical Vertical Seismic Profiles	C. Hurich J. Wright
S. Meade	M.Sc. - Structure of the Lower Portion of the Humber Arm Allochthon, South of Bay of Islands	T. Calon

A. Moore	M.Sc. - Geological reservoir characterization of greater Hebron-Ben Nevis area, Jeanne d'Arc Basin	R. Meyer D. McIlroy
P. Nyade	Analysis of heavy metals in geological samples using ICP-MS	J. Hanchar H. Longrich
G. Penney	M.Sc. - Geochemical Investigation of Kimberlitic and Ultramafic Lamprophyre Intrusives from Northern Labrador	D. Wilton P. Sylvester
T. Perry	M.Sc.	A. Leitch D. Wilton
C. Phillips	Ph.D. - Variability and patchiness of ichnofaunas and ichnofacies in turbiditic successions of the Gres D'Annot, France	D. McIlroy
J. Pittman	M.Sc. - Transient fluid flow effects in homogeneous porous media for incorporation into simulations of advanced wells and their reservoir vicinity	T. Johansen
M-J. Roux	Ph.D. - Linking trophic dynamics and habitat-coupling to mercury bioaccumulation in fish: a bi-dimensional approach to food web structure	R. Anderson D. Planas P. Sylvester
S. Schwartz	M.Sc. - Diagenesis and porosity evolution of the Lower Paleozoic carbonate and Cretaceous-Tertiary siliciclastic reservoir intervals, Labrador Shelf	M. Enachescu K. Azmy R. Meyer
E. Seok	Ph.D.	J. Gale
E. Septama	Ph.D. - Deep water depositional system in Gulf of Papua	S. Bentley
S. Sharma	Visiting Ph.D - Finite difference modeling of Rayleigh waves to detect underground cavities	S.D. Butt R.P. Bording
J. Smith	M.Sc. - A seismic and structural interpretation of the rifting evolution in the Flemish Cap area	J. Hall
K. Souders	Ph.D.	P. Sylvester
J. Stead	M.Sc. - Interpretation of seismic and wellbore data, Hawke Basin (Labrador Shelf)	J. Hall M. Enachescu
M. Talukder	M.Sc. - VSP modeling and reservoir characterization by using elastic seismic data	R. Bording
N. Tonkin	Ph.D. - Lateral variability of ichnofabric in shallow marine successions: constraining the limitations of the ichnofabric method	D. McIlroy
P. Valley	Ph.D. - Tectonic controls on Na and K fluid infiltration and Fe mineralization in the Lyon Mountain gneiss and related rocks, Adirondack Mountains, New York	J. Hanchar
C. Valverde		A. Indares G. Jenner
C. Vivanco	M.Sc. - Sample preparation and the determination of high field strength elements in geological and environmental samples using ICP-MS	H. Longrich J. Hanchar
M. Wheeler	M.Sc. - Interpretation and modelling of magnetic data from Voisey's Bay, Labrador	H. Miller J. Hodych
J. Whelan	M.Sc. - A model of flow and pressure response around calcite nodules with implications for the Ben Nevis / Avalon reservoir in the Whiterose Field, offshore Newfoundland, Canada	M. Enachescu I. Sinclair

SAINT MARY'S UNIVERSITY		
J. Foley	B.Sc. - Kegeshook G-67 well: stratigraphy, sedimentology and petrology	G. Pe-Piper
A. Garroway	B.Sc. - Late Paleozoic felsic volcanic rocks in southwestern New Brunswick: relevance to uranium exploration	J. Dostal A. MacRae
B. MacCallum	B.Sc. - Deformed Upper Miocene Dikeos monzonite and Pliocene lamprophyre dykes of Kos: tectonic significance	G. Pe-Piper
H. McKee	B.Sc. - N. Triumph G-43 well: stratigraphy, petrology and geochemistry	G. Pe-Piper
C. Stewart	B.Sc. - Tectonic setting of metabasites and metapsammites from the Battle Harbour area (Pinware Terrane, Grenville Province), Labrador	J.V. Owen
S. Bowman	M.Sc. - Cretaceous volcanism in the Laurentian sub-basin and its impact on petroleum geology	G. Pe-Piper
R. Fitzgerald	M.Sc. - Relationship between the sulfide contents of Meguma Group rocks and their magnetic response; an inquiry on the possible use of magnetometers to assess acid rock drainage potential in Nova Scotia	P. Jutras
S. Ledger-Piercey	M.Sc. - The use of rutile as a provenance indicator	G. Pe-Piper
J. McLeod	M.Sc. - Viséan tectonostratigraphy of the Cumberland Basin of New Brunswick and Nova Scotia	P. Jutras
A. Okwese	M.Sc. - Phosphate-related diagenesis in the Lower Cretaceous of the Scotian Basin	G. Pe-Piper
N. Tsoukalas	M.Sc. - Geodynamic evolution of the late Miocene igneous rocks of the island of Kos, Greece	G. Pe-Piper
ST. FRANCIS XAVIER UNIVERSITY		
M. Barker	B.Sc. - Structural analysis of the Maw Zone: a sub-economic REE deposit	B. Murphy
D. Lambert	B.Sc. - Tetrapod ichnofossils from the Mabou Group	M. Melchin
N. Nickerson	B.Sc. - Holocene paleoclimate of the Antigonish area from lake surface geochemistry	D. Risk
D. Dawson	M.Sc. - Phylogenetic study of the earliest <i>Monograptus</i> (Graptolithina) and related taxa from the Lower Silurian, Cape Phillips Formation, Nunavut	M. Melchin
K. Kavanaugh	M.Sc. - Soil nitrous oxide dynamics associated with forest harvesting in a transitional temperate-boreal forest ecosystem	L. Kellman
B. Stevens	M.Sc. - Experiments with the general circulation model ECHO-G: paleoclimatic reconstructions and bottom boundary sensitivities	H. Beltrami
UNIVERSITY OF NEW BRUNSWICK		
P. Abongwa	Ph.D. - An aqueous geochemical and mineralogical investigation of mineral-water interactions in antimony mine tailings, Lake George, New Brunswick	T. Al
H. Abgogun	Ph.D. - Three-Dimensional measurement of solute diffusion in porous geologic media using computed tomography	T. Al
M. Battler	M.Sc. - Formulating lunar regolith simulants	J. Spray
T. Bineli-Betsi	Ph.D. - Petrogenesis of the southeastern Dawson Range epithermal gold-base-metal vein systems, Yukon	D. Lentz

M. Biren	Ph.D.	J. Spray
H. Campbell	M.Sc.	B. Broster
S. Craggs	M.Sc. - Remote sensing and ground-based investigations of the Matapedia basin, NE New Brunswick	J. Spray
P. Dickinson	Ph.D - Geomorphological processes and the development of the lower Saint John River human landscape	B. Broster
W. Downey	Ph.D. - The experimental constraints on peperite formation and relationship to explosive volcanism	C. Shaw
C. Dupuis	Ph.D. - Seismoelectricity instrumentation optimisation	K. Butler B. Petersen
B. Elliott	M.Sc. - Remote sensing analysis and three-dimensional techniques applied to stratigraphic layers in Valles Marineris, Mars	J. Spray
J. Evangelatos	M.Sc. - Geophysical survey of the Presqu'île and Île Rouleau impact structures, Quebec	J. Spray K. Butler
A. Gebru	Ph.D. - Geology and genesis of the Mactung tungsten deposit, Yukon, Canada	D. Lentz
N. Harcourt	M.Sc. - A sequence stratigraphy for the final basin fill of the Uinta Basin (Green River and Uinta formations), eastern Utah, USA	D. Keighley
J. Hudgins	M.Sc. - Deep-level metamorphic rocks from the Moon	J. Spray
A. Majumdar	M.Sc. - Systematic modeling of stockworks in the Bathurst mining camp, New Brunswick, Canada, with aid of geochemistry, petrography and isotopic implications for VMS exploration	D. Lentz
S. McClenaghan	Ph.D. - Trace-element systematics of volcanogenic massive sulfide deposits: implications for petrogenesis and exploration	D. Lentz
P. MacNeill	Ph.D. - Structural geometry and evolution of southern Thor-Odin dome, eastern Shuswap Complex, British Columbia	P. Williams
C. Melrose	M.Sc. - Character, formation and environmental implications of manganese nodules in Lake George, New Brunswick	T. Al
T. Mumford	M.Sc. - Petrogenesis and evolution of the REE enriched syenite dykes of the Ice River Complex, British Columbia	D. Lentz C. Shaw
C. O'Connell	Ph.D. - Central uplift formation in complex impact structures	J. Spray
B. Petronic	M.Sc. -Aqueous geochemistry and mineralogy of tungsten mine tailings, Mount Pleasant, NB	T. Al
C. Richer	M.Sc. - Petrogenesis of unraniferous pegmatites, Fort-Coulonge, Quebec	D. Lentz
S. Schwarz	Ph.D. - Petrogenesis of gold deposits with the Middle Ordovician Fourier Group accretionary wedge, northeastern New Brunswick	D. Lentz
D. Shinkle	M.Sc. - Long Lake uranium deposit, north-central New Brunswick: a granite-hosted uraniumiferous polymetallic vein system in the Canadian Appalachians	D. Lentz
R. Subudhi	M.Sc. - A radiation transmission technique for the measurement of diffusive solute transport in porous media	T. Al

R. Toole	M.Sc. - Petrographic, chemostratigraphic and alteration analysis through the polydeformed volcano sedimentary sequence hosting the Boomerang Massive Sulfide Deposits, Tulls Belt, Central Newfoundland	D. Lentz
A. Wills	Ph.D. - Chemostratigraphy and hydrothermal alteration within the Flat Landing Brook Formation rhyolitic rocks, Brunswick Belt, Bathurst Mining Camp	D. Lentz
Chunlei Yang	M.Sc. - Sedimentology and Gamma Ray Spectrometry of alluvial-lacustrine Horton Group strata, Sussex area, New Brunswick	D. Keighley
J. Zulu	Ph.D. - Structural, metamorphic and lithochemistry of polydeformed volcanogenic massive sulphide deposits in the Key Anacon and Key Anacon East Zone, New Brunswick	D. Lentz

UPCOMING EVENTS



Central Atlantic

Conjugate Margins Conference | Halifax 2008

"Sharing Ideas - Embracing Opportunities"

August 13 — 15, 2008 | Dalhousie University | Halifax | Nova Scotia | Canada

Call for Papers

For Oral and Poster Presentations Relating to:
Margin Evolution & Development
Basin Petroleum Systems | Productive Fields & Analogues

IN ADDITION TO THE CONFERENCE SESSIONS, ALSO FEATURED WILL BE:

FIELD TRIPS

- Nova Scotia (Pre-Meeting)**
 - Permian to Jurassic Rift Successions
 - Classic Carboniferous Sections
 - Onshore Cretaceous Reservoir Equivalents
- Morocco (Post-Meeting)**
 - Triassic Synrift Reservoir Facies & Architecture
- Portugal (Post-Meeting)**
 - Jurassic Carbonates & Fluvio-deltaic Successions

COURSES

- Practical Salt Tectonics
- Petroleum Systems Modelling

CORE WORKSHOP

- Offshore Nova Scotia Reservoirs, Facies & Sequences

SEISMIC DATA ROOM

- Latest Central Atlantic Programs & Profiles

ABSTRACT SUBMISSION DEADLINE

March 1, 2008
 All abstracts must be submitted through the conference website

PROGRAM INFORMATION

David E. Brown
 dbrown@cnsopb.ns.ca

EXTENDED ABSTRACT DEADLINE

May 1, 2008
 Extended abstracts for accepted papers must be submitted by this date

Grant D. Wach
 grant.wach@dal.ca

WEBSITE

www.conjugatemargins.com

LOGISTICAL INFORMATION

Trudy D. Lewis
 trudy.lewis@ns.sympatico.ca



SPONSORS / ENDORSEMENTS



The Atlantic Geoscience Society's 15th annual workshop

EdGEO Rocks !

A 2-day field trip to explore Halifax and its surrounds:

- > Learn how geology influences our modern terrestrial and marine environments
- > Discover the intricate connection between human activity and the environment

Leaders: Terry Goodwin, Nova Scotia Department of Natural Resources and Michael Parsons, Geological Survey of Canada

Dates: Wednesday & Thursday, August 20 & 21

Local host: Bedford Institute of Oceanography in Dartmouth, Nova Scotia

You will receive ..

- > Field trip guide book
- > Geological highway map of Nova Scotia
- > CD of hands-on activities and materials
- > Pamphlets, booklets & posters
- > 16 hours of professional development



Terry explains the granite of Peggys Cove

Teachers' comments on previous workshops:

"... a valuable contribution in facilitating learning for teachers and students in Nova Scotia"

"Learning by seeing and feeling and experiencing"

"You really brought this topic to life"

"Terrific atmosphere for learning."

"Workshop has been two of the best days experience I have had. Sorry I had to miss the previous 12!"

Workshop endorsed by the Nova Scotia Association of Science Teachers and the Nova Scotia Social Studies Teachers' Association. Evaluated as a valid professional development opportunity by the Nova Scotia Department of Education.

To register please return completed form with payment (cheque payable to NS EdGEO Workshop Committee) to:

Jennifer Bates
Chair, AGS Nova Scotia EdGEO Workshop Committee
c/o Geological Survey of Canada (Atlantic)
Bedford Institute of Oceanography
P.O. Box 1006, Dartmouth, NS B2Y 4A2
Ph: 902-426-4386
FAX: 902-426-4465
E-mail: jbates@nrcan.gc.ca

Name: _____

School: _____

School address: _____

Current grade level: _____

Summer mailing address: _____

School phone: _____

Summer phone: _____

E-mail: _____

Please mark your choice. Fee includes lunches & breaks & Wednesday supper. If it rains, sessions will be held indoors.

Teacher: ____ \$95 ____ \$120*

Student: ____ \$50 ____ \$75*

* includes a copy of the book "The Last Billion Years" listed on NS Department of Education Book Bureau



Final Circular
AGS Colloquium
Holiday Inn Harbourview, Dartmouth, NS
February 1-2, 2008

The 34th AGS Colloquium and Annual General Meeting will take place on February 1-2, 2008 at the Holiday Inn Harbourview at 101 Wyse Road in Dartmouth, NS. The program includes six special sessions, a general session, a Climate Change Panel Discussion, and a geochronology mini course that will run at Dalhousie University on Sunday, February 3rd. We have received approximately 113 abstracts for presentations, so it should be a busy weekend!

- **Registration:** Please complete the accompanying registration form and pre-register by snail mail no later than January 25th, e-mail pre-register no later than January 28th. Participants are encouraged to register as soon as possible to facilitate meeting planning, and to avoid paying the higher on-site registration fees.
- **Accommodations:** Room bookings at the Holiday Inn Harbourview can be arranged by calling the hotel directly at 1-888-434-0440. The AGS conference rate (\$115.00/night) is now subject to room availability. When booking, please mention that you are with the Atlantic Geoscience Society (Group Code AG2).
- **Luncheon and Banquet Tickets** must be reserved before you arrive in Dartmouth. To reserve your tickets, please check-off the appropriate box on the registration form and ensure your selections are communicated to Nelly Koziel (phone: 902-426-2740; fax: 902-426-6152; e-mail: Nelly.Koziel@NRCan.gc.ca) before January 28th. **If you would like a vegetarian meal, please mention this when reserving your tickets with Nelly.**
- **Business Meetings on Friday, February 1st (all in McNab A Boardroom):**
 - » 09:00-10:30 AGS Education Committee
 - » 10:30-12:30 AGS Council
 - » 12:30-13:30 Atlantic Geology Editors
 - » 17:00-18:00 APICS Earth Science Committee
- **Geochronology Mini Course:** Please see the attached poster for more information. Cost is \$50 for non-students, and free for graduate students—payment should be made at the workshop. A shuttle to Dalhousie University will depart the Holiday Inn Harbourview on Sunday, February 3rd at 8:30 am sharp.
- **Volunteers required for chairing General Sessions:** If you would be willing to help chair one of the general sessions, please contact Graham Williams (902-426-5657; Graham.Williams@NRCan.gc.ca) by January 23rd.
- **2008 GAC®-AGS Student Breakfast:** There will be a FREE hot breakfast from 7:15-8:15 am Saturday morning in the Alderney Room. Interact with professional members of GAC® and AGS, and get tips from potential employers and graduate supervisors. All graduate and undergraduate students are welcome. Please e-mail John Gosse (john.gosse@dal.ca) on or before January 21 if you are interested in attending.

Program Overview

A detailed schedule of presentation times will be sent out to AGS members and other participants the week of January 21st. This will also be posted on the AGS website. Here is the timing of Special Sessions and other key events that can be used for making travel arrangements:

Friday, February 1st:

10:00-19:00: *Registration*

10:00-14:00: *Poster set-up*

12:00-13:30: *Upload PowerPoint files in speaker-ready room (for cut-off times, see next page)*

14:00-24:00: *Poster Session*

14:00-17:00: *Soil Geochemistry: Influences of Genetic and Environmental Factors*

▶ Terry Goodwin (goodwita@gov.ns.ca) & Michael Parsons (Michael.Parsons@NRCan.gc.ca)

14:00-17:00: *General Session*

14:20-17:00: *Mineral Deposits Research*

▶ Jamie Braid (jamie.braid@gmail.com)

18:00-19:00: *Student Poster Judging*

19:00-20:40: *Climate Change Presentations and Panel Discussion*

▶ David Piper (DPiper@NRCan.gc.ca) & Ian Spooner (ian.spooner@acadiiau.ca)

19:00-20:40: *General Session*

21:00-24:00: *AGS' 35th Birthday Party and Celebration of International Year of Planet Earth!*

Saturday, February 2nd:

08:00-17:30: *Poster Session*

08:20-12:00: *Sediment Dynamics, Oceanography and Ecology of the Greater Bay of Fundy: Scenarios Resulting from Tidal Power Development*

▶ Elisabeth Kosters (eckosters@hotmail.com) & Gordon Fader (gordon.fader@ns.sympatico.ca)

08:20-12:00: *Geochronology Session: Timing, Timescales, and Tempo of Crustal Processes*

▶ Chris McFarlane (crmm@unb.ca), Paul Sylvester (pauls@esd.mun.ca) & Sabine Schwarz (s.vetter@unb.ca)

08:20-12:00: *General Session*

12:00-14:00: *Annual General Meeting and Luncheon*

14:00-17:00: *Earth-based Studies of Planetary Surfaces*

▶ Marie-Claude Williamson (Marie-Claude.Williamson@space.gc.ca) & Lawrence Plug (ljp@dal.ca)

14:00-17:00: *Education in the International Year of Planet Earth*

▶ Jennifer Bates (JBates@NRCan.gc.ca) & Heather Johnson (johnsonhl@hotmail.com)

14:00-17:00: *General Session*

17:00-24:00: *Cash bar*

19:00-22:00: *AGS Awards Banquet*

22:00-24:00: *AGS Ceilidh and Jam-Session*

Instructions for Oral Presentations

- All oral presentations will be allocated 20 minutes—presenters should aim to talk for approximately 15 minutes to leave sufficient time for questions and discussion.
- All presentations must be prepared in PowerPoint; only one screen will be available.
- PowerPoint 2003 and earlier versions are acceptable. Presenters using Office 2007 software should save their slideshow as a PowerPoint 2003 version PPT file or PPS file.
- Presenters using a Mac should test their slideshow on a PC computer before coming to the meeting. There will not be a Mac in the technical sessions or in the speaker-ready room.
- Presenters not using animations may also consider saving their presentations as Acrobat PDF, which can also be displayed as a slideshow.
- A speaker-ready room (**MacKay Room**), will be available from noon to 8:40 pm on Friday, and from 7:45 am to 5:00 pm on Saturday.
- **It is important that ALL SPEAKERS LOAD THEIR TALKS into the designated folders on the speaker-ready room desktop computer BEFORE the following times** (please don't leave it until the last minute). It is up to the speakers to bring a CD, USB drive, or other device to transfer data to the desktop.
 - For Friday afternoon talks: No later than 1:30 pm Friday.
 - For Friday evening talks: No later than 6:30 pm Friday.
 - For Saturday morning talks: No later than 8:00 am Saturday.
 - For Saturday afternoon talks: No later than 1:30 pm Saturday.
- **MACINTOSH USERS:** Although we will try to accommodate Mac files, any speaker using a file prepared from a Mac should test their talk on the LAPTOP designated for their technical session, in addition to loading the file onto the desktop in the speaker-ready room. Obviously this will need to be done between sessions, and preferably on Friday afternoon before the meeting begins.

Please note that internet connections are not available in the presentation rooms.

Instructions for Poster Presentations

Poster boards are 4'x 8' (Velcro-friendly panels, Velcro not supplied). All posters will be assigned a number at the registration desk, and should be set up on the corresponding poster board in the Harbourside Terrace by 2:00 pm on Friday afternoon. **All students are asked to be present at their posters from 6:00-7:00 pm on Friday so judges can ask questions if required.** Posters should be removed no later than 5:30 pm on Saturday.

Travel Funding Available!

Students participating in the Special Session on Earth-based Studies of Planetary Surfaces are eligible to apply for travel support from the Canadian Space Agency.

Details available at the CSA site: http://www.space.gc.ca/asc/eng/educators/grants_prog.asp

Awards, Entertainment, and Call for Embarrassing Photos

On Friday evening following the technical sessions, we will celebrate AGS' 35th Birthday with a party in the City Terrace at the Holiday Inn. There will be finger foods, a cash bar, and birthday cake. All AGS members are encouraged to come prepared to share their own stories of past AGS events (especially those "particularly entertaining" moments). We also plan to have a PowerPoint slide show of photos highlighting AGS events, field trips, activities, etc.

We need YOUR help to make this happen!

Please look through your own photo collections for pictures of AGS members (...even if they are somewhat incriminating) and submit them to Michael.Parsons@NRCan.gc.ca. We'll need photos **no later than Friday, January 25th** to ensure they're included in the slide show. If you have witty captions to include, these are also most welcome. Photos should be submitted in JPEG format, or alternately, directly in a PowerPoint file. If the photos are too large for e-mailing, please drop them on our incoming FTP site: <ftp://gsca.nrcan.gc.ca/incoming/Parsons/>. Photos will not be redistributed without the owner's permission. If you don't mind contributing these to the AGS archives for future slide shows, please let us know.

A highlight of each AGS Colloquium is the annual awards banquet, and presentation of the student awards for best poster and best undergraduate and graduate oral presentations, the AGS Distinguished Service Award, and the Distinguished Scientist Award (Gesner Medal). The Marine Geosciences Division of the Geological Association of Canada will also be presenting the Michael J. Keen Medal at the AGS Banquet to a scientist who has made a significant contribution to the field of marine or lacustrine geoscience.

This year's **banquet speaker is Dr. Godfrey Nowlan** (GSC-Calgary), Past-President of the Geological Association of Canada, and Program Chair for the Canadian National Committee for the International Year of Planet Earth. His talk is entitled "Earth to Canadians: Communicating Earth Science in the International Year of Planet Earth".

A post-banquet tradition is the **AGS Ceilidh and Jam-Session**. The musically-inclined are invited to bring their instruments and entertain those of us who aren't so musically inclined. All instruments and styles welcome—contact Ian Spooner (ian.spooner@acadiu.ca) with questions.

We look forward to seeing you in Dartmouth next month!

Michael Parsons and Jennifer Bates (co-chairs), on behalf of the Local Organizing Committee

AGS 34th Annual Colloquium

LOCAL ORGANIZING COMMITTEE

Co-chairs: Michael Parsons (Michael.Parsons@NRCan.gc.ca) &
Jennifer Bates (JBates@NRCan.gc.ca)

Technical Program Chair: Graham Williams (Graham.Williams@NRCan.gc.ca)

Technical Program Committee: Sonya Dehler (SDehler@NRCan.gc.ca), Martin Gibling (mgibling@dal.ca), Michael Parsons, Georgia Pe-Piper (gpiper@smu.ca) & Chris White

Posters and Booths: Rob Naylor (rdnaylor@gov.ns.ca)

Registration: John Shimeld (John.Shimeld@NRCan.gc.ca) &
Nelly Koziel (Nelly.Koziel@NRCan.gc.ca)

Abstracts Volume: Chris White (whitece@gov.ns.ca)

Sponsorship: Mike MacDonald (mamacdon@gov.ns.ca)

A/V: John Gosse (john.gosse@dal.ca) & Lawrence Plug (ljp@dal.ca) & Charlie Walls (Charles.Walls@dal.ca)

Awards: David Mosher (dmosher@NRCan.gc.ca)

Student Judging: Anne-Marie Ryan (amryan@dal.ca)

Social: Ian Spooner (ian.spooner@acadiu.ca)

Promotion: AGS Media Relations Committee
(Elisabeth Kusters (eckusters@hotmail.com), Deb Skilliter (skillidm@gov.ns.ca), Reg Wilson (Reg.Wilson@gnb.ca) & Grant Ferguson (gferguso@stfx.ca))



**The Atlantic Geoscience Society
Société Géoscientifique de l'Atlantique**

Colloquium and Annual General Meeting
Holiday Inn Harbourview, Dartmouth, Nova Scotia
February 1-2, 2008

Registration Form

(Pre-register by snail mail no later than January 25th, email pre-register no later than January 28th.)

- Please print clearly -

Name (first, last) : _____

Street Address: _____

City – Province – Postal Code: _____

Affiliation: _____

E-mail address: _____

Registration Fees

Professional or part-time student (includes \$10.00 AGS membership)\$60.00.... \$ _____
(On-site registration will be \$70.00)

Full-time student (includes \$5.00 AGS membership)\$20.00.... \$ _____
(On-site registration will be \$25.00)

Guest FREE _____

Geochronology Mini Course at Dalhousie University, Feb. 3rd

Professional..... \$50.00.... \$ _____

Graduate Student FREE _____

GAC®-AGS Student Breakfast..... FREE _____

AGS Annual Meeting and Luncheon*

Professional, part-time student or guest \$20.00 x no. of tickets ____ = \$ _____

Full-time student \$10.00 x no. of tickets ____ = \$ _____

AGS Annual Awards Banquet*

Professional, student and/or guest..... \$36.00 x no. of tickets ____ = \$ _____

***All taxes and gratuities included.**

Atlantic Geology Subscription

Electronic subscription \$25.00 .. \$ _____

Paper copies (photocopied pdfs, not printed or bound) .. \$70.00 .. \$ _____

TOTAL \$ _____

Make cheques payable to **“Atlantic Geoscience Society”**. Send completed form and cheque ASAP to:

AGS c/o Nelly Koziel

Natural Resources Canada, Geological Survey of Canada (Atlantic)

P.O. Box 1006 (1 Challenger Dr.) Dartmouth, Nova Scotia B2Y 4A2

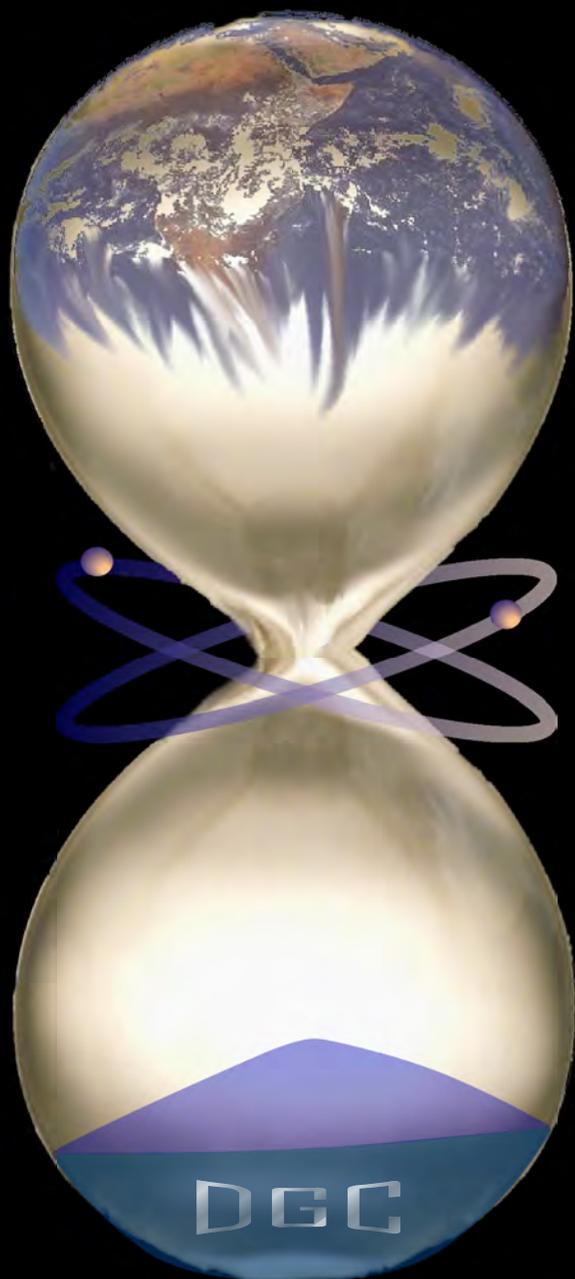
(phone: 902-426-2740 ; fax: 902-426-6152 ; e-mail: Nelly.Koziel@NRCan.gc.ca).

Receipts will be available at the registration desk during the conference.

_____ **Check HERE if registering now and will pay later at the conference**

GEOCHRONOLOGY MINI COURSE

2008 AGS Annual Meeting
8:45 to 5:00 pm
Sunday, February 3



**Dalhousie
Geochronology
Centre**

Faculty, graduate students, and professional geoscientists welcome. We will assume a basic knowledge of radiometric dating, nuclear physics, and mathematics. We will emphasize advances in the techniques.

Milligan Room 8007 8th floor
Biology/Geology Wing
Life Sciences Centre
Dalhousie University

A shuttle will depart from the Holiday Inn at 8:30 am sharp.

Registration required: by Jan 20
by emailing John.Gosse@dal.ca

Fee: \$50 for non-students
Free for graduate students.

Tentative Schedule:

9:00 Welcome, goals, intro
9:30 $^{40}\text{Ar}/^{39}\text{Ar}$, K-Ar, (U-Th)/He
Fission Track, thermochronology
11:00 Labs: FTA and noble gas
12:30 Lunch
1:00 U-Pb Monazite dating
2:00 Labs: Cosmogenic and EMP
3:00 Cosmogenic nuclides
4:00 Break out group problems
4:30 Discussion

2008 GAC[®]-AGS Student Breakfast

At the 2008 AGS Annual Meeting
Holiday Inn Harbourview, Dartmouth, NS
Saturday, February 2, 2008
Alderney Room, 7:15 to 8:15 am



Free hot breakfast for undergraduate and graduate students

Opportunity to interact with potential employers

Hear about preparing for graduate schools

*Learn about the benefits of membership with the Geological Association of Canada
and the Atlantic Geoscience Society*

*Students must indicate their intention to participate in the breakfast by emailing
john.gosse@dal.ca on or before January 21.*