



ATLANTIC GEOSCIENCE SOCIETY
NEWSLETTER

Volume 36, Number 1, January 2007



*A glacial boulder—not strictly an erratic since it is a granite boulder
on granite bedrock—at Prospect, Nova Scotia.*

Photo by Rob Fensome.

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The deadline for submissions to the next issue is March 30, 2007. Please send articles or feedback to:

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Production of this newsletter is by Nelly Koziel.

Greetings all, and Happy New Year from sunny and balmy Wolfville. It is hard to believe that we are in the depths of winter when one could easily be on the outcrop (and without any bugs)! I hope everyone is busy getting prepared for the upcoming 33rd Colloquium and Annual General Meeting on February 2nd and 3rd in Moncton, New Brunswick. This newsletter will provide you with lots of information about the meeting, which promises to be every bit as dynamic as the 2006 meeting in Wolfville. Please be aware that a limited number of rooms have been set aside at the Delta Beauséjour Hotel at a special colloquium price; attendees should book their reservations by January 10th. You can get all the details at the AGS web site. Of particular interest might be the workshop: "A Review of Physical Volcanology - A Metallogenic Perspective" that will be run on Friday, February 2nd, 10:00 a.m. - 5:00 p.m. This may require those interested to arrive on Thursday evening. In addition to general sessions, there will be special sessions entitled "Patterns and Geohazards in the North Atlantic", "Salt Matters: Tectonic, Thermal, and Resource Aspects of Paleozoic to Mesozoic Evaporite Basins", "Mineral Resources Research", "Polar Geoscience", and "Late and Post-Glacial Climate Change Events in Eastern Canada." As always, we encourage student participation in the conference; help us get the word out!

I would also encourage everyone to attend our annual awards banquet and presentation of student awards, the AGS Distinguished Service Award and the Distinguished Scientist Award (Gesner Medal). Our banquet speaker this year is Past President and Gesner winner David Piper (GSC-Atlantic) whose presentation is entitled "Apprenticeship in Geology - A Second Look". And, finally, our annual Ceildh and Jam Session is on again. Bring your instrument voice, and a friend, and let's party into the wee hours; after all, it's an AGS tradition!

Hope to see you in Moncton!

Ian Spooner
AGS President
Ian.Spooner@acadiu.ca

AGS ACTIVITIES

Your Journal is Now Electronic!

Atlantic Geology is now fully into the electronic world, in collaboration with the Electronic Text Centre (ETC) at the University of New Brunswick, Fredericton. Subscribers can access volumes 38 through 42 (number 1) in both PDF and XHTML, and all of the back issues from volume 1 (1965) to 37 (2001) are available in searchable PDF. The back issues up to volume 37 are available freely, but only subscribers can access the more recent volumes. You can obtain your login and password information by contacting James Kerr at ETC (jkerr@unb.ca).

Remember that the current volume of the journal (v.42) is the last that will be provided to subscribers in paper format. The final mailing will be a "double issue" (v.42, n.2 and 3), to be mailed early in 2007. The theme of the issue is "Environmental Geoscience Research in the Atlantic Region", with guest editors Don Fox, Mike Parsons, and Marcos Zentilli. We apologize for the late mailing—but after years of being behind, you didn't really expect us to get this last one done on time either, did you?

Beginning with v.43, the journal will be available electronically to subscribers at a reduced rate, to be reflected in the 2007 invoices. With the new system, we

will be able to post articles on the website as soon as they have been through the review and layout process—we will not have to wait for the slowest reviewers and authors in order to complete an issue and get it off to the printer. The new system also includes on-line submission, and we will also be managing our database and sending out invoices by e-mail, a major saving in postage. Please bear with us while we all learn how to do all these procedures and get the wrinkles out of the system!

It is worth repeating from an earlier newsletter that all of us involved in the production of the journal are grateful to the members of the Halifax 2005 organizing committee whose hard work resulted in a financial surplus from the meeting, some of which AGS designated for the digitizing of the back issues of the journal.

And last but not least: we encourage manuscript submissions! We will still accept submissions in the traditional paper mode or as e-mail attachments (file size below 5 Mb), but strongly encourage you to try out the new on-line submission process. Now is the time to finish up that “almost-completed” paper and send it in!

Sandra M. Barr
Co-Editor, Atlantic Geology
Sandra.Barr@acdiau.ca

AGS COLLOQUIUM

Final Circular Delta Beauséjour Hotel, Moncton NB February 2-3, 2007

Planning is essentially complete for the 33rd annual AGS Colloquium, to be held at the Delta Beauséjour Hotel, 750 Main Street, Moncton, New Brunswick on February 2nd and 3rd. Participants are encouraged to pre-register and avoid onsite registration fees. To register and submit fees, follow the instructions on the registration form.

Program

The program has been finalized, and is summarized below. As you can see, things kick off a little earlier than usual (at 10 a.m. on Friday), so if you plan to attend the workshop you may have to leave very early in the morning or arrive on Thursday, depending on where you live.

Workshop: “*A Review of Physical Volcanology - A Metallogenic Perspective*”

Convenors: R. Toole and D.R. Lentz, University of New Brunswick

Time: Friday, February 2, 2007, 10:00 a.m. – 5:00 p.m.

Speakers: Wulf Mueller, UQAC; David Lentz, UNB; Cliff Shaw, UNB; Warna Downey, UNB; Alex Wills, UNB; Steve McCutcheon, NBDNR; Reg Wilson, NBDNR

Workshop: “*North American Soil Geochemical Landscape Project - Orientation session*”

Convenor: A.G. Pronk, NBDNR

Time: Friday, February 2, 2007

2-4 p.m. - speakers; 4-5 p.m. - discussion group

Special and General Sessions – Friday evening, February 2 and Saturday, February 3

Special Session: “*Patterns and Geohazards in the North Atlantic*”

Convenor: C. Suteanu, Saint Mary’s University

Special Session: “*Salt Matters: Tectonic, Thermal, and Resource Aspects of Paleozoic to Mesozoic Evaporite Basins*”

Convenors: M. Zentilli and J. Adam, Dalhousie University

SEG Student Chapter Special Session: “*Mineral Resources Research*”

Convenor: S. Vetter, University of New Brunswick

Special Session to mark “2007: The International Polar Year”: “*Polar Geoscience*”

Convenor: T. Schell, Dalhousie University

Special Session: “*Late and Post-Glacial Climate Change Events in Eastern Canada*”

Convenor: A. Miller

General Session: “*Current Research in the Maritime Provinces (and Beyond)*”

Reminders to those who have had their abstract accepted for oral presentation

- *All presentations must be prepared in PowerPoint for an LCD projector; only one screen will be available.
- * Laptops and projectors will be provided at the conference, including a laptop in the speaker ready-room.
- * If possible, send your presentation on a CD to Ian Spooner at Acadia University **on or before January 29**. Depending on size, presentations may be either e-mailed (ian.spooner@acadiu.ca) or posted to:
Ian Spooner, Associate Professor
Department of Geology, Acadia University
Wolfville, NS B0P 1X0
902-585-1312
- * It will be possible to load presentations in Moncton; however, presenters **must** do so at least 1 hour prior to the start of their session.

Posters

Standard poster space is 3’ x 6’ velcro-friendly panels, velcro not supplied.

Meetings

See your conference program from the registration desk for exact times and places:

- AGS Council meeting, late Friday afternoon
- Annual General Meeting, Saturday ~noon
- Atlantic Geology editor’s meeting
- AGS Education Committee, Sunday a.m.

Accommodations

If you haven’t booked by January 10, you may not be eligible for the Beauséjour conference rates of \$120 for single or double occupancy, \$140 for triple, and \$160 for quadruple. Nevertheless, whenever you book a room (call 506-854-4344 or 1-888-351-7666) indicate that you are attending the Atlantic Geoscience Society meeting as we get a credit for each person-night against the cost of the facilities.

Awards and Entertainment

The AGS Distinguished Scientist Award (Gesner Medal), the Distinguished Service Award, and the student awards for best poster and best oral presentation will be awarded at the annual banquet on Saturday night. Banquet (and luncheon) tickets should be reserved when registering as the numbers are finalized 3 days prior to the conference.

Our banquet speaker this year is Past-President of the Geological Association of Canada David Piper (GSC-Atlantic), whose presentation is entitled “*Apprenticeship in Geology - A Second Look*”.

A post-banquet tradition is the annual **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.

The Atlantic Geoscience Society Société Géoscientifique de l'Atlantique

Colloquium and Annual General Meeting

**Delta Beauséjour Hotel
Moncton, New Brunswick
February 2nd and 3rd, 2007**

Registration Form

Name (first/last) : _____

Street Address: _____

City – Province – Postal Code: _____

Affiliation: _____

Email address (please do legibly): _____

Registration Fees

Professional or Part-time student (includes \$10.00 AGS membership) \$50.00... \$
(On-site registration will be \$60.00)

Full-time student (includes \$5.00 AGS membership) \$15.00... \$
(On-site registration will be \$20.00)

Guest \$ 0.00

Workshop: “Physical Volcanology – A Metallogenic Perspective”

Professional and student \$10.00 ...\$

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..... \$35.00 each X no. of tickets = \$ _____

(All taxes and gratuities are included in the prices. Very few tickets will be available at the registration desk)

Atlantic Geology Subscription

electronic subscription \$25.00 .. \$ _____

paper copies (photocopied pdfs, not printed or bound) \$95.00 ... \$ _____

TOTAL \$ _____

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

Peter Wallace, AGS Councilor
Department of Earth Sciences, Dalhousie University
Halifax, Nova Scotia B3H 4R2
(phone: 902-494-2364; fax: 902-494-6889, e-mail: peter.wallace@dal.ca).

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

_____ Check here if you are registering now and will pay later at the conference.

REGIONAL NEWS AND UPDATES

ACADIA UNIVERSITY

A particularly busy and demanding Fall term is now behind us. Significant internal adjustments were necessitated unexpectedly when Rob Raeside was seconded to become Acting Dean of Science as of October 1st, and Cliff Stanley moved into the position of Acting Head of the department. Fortunately for us, Rob continued to do far more teaching than is “normal” for a dean, and we made it through. With still another term ahead of us, although having had some time to prepare, we have recruited part-time assistance in the form of Elisabeth Kosters and Alan Macdonald!

Since September, members of the department together with colleagues in Environmental Science, have been engaged in planning the merger of the Geology Department and the Environmental Science program. It is anticipated that the merger will complete by July 2007, and will not change any current programs, but will provide an opportunity for closer cooperation between the two units. It is likely that the new unit will be called Department of Earth and Environmental Science. Courses will retain their GEOL and ENVS designations in the university system.

We had interesting and diverse visitors to the department during the Fall. Visiting scientist Eric E. Hiatt (University of Wisconsin–Oshkosh) gave a presentation on his research on the sedimentology and lithogeochemistry of Permian phosphorites in the western United States. GAC Hutchison Medal winner John C. Gosse (Dalhousie University) visited the department in October as part of his national Hutchison medal lecture tour to tell us about “Fingerprinting glacial erosion and till production for drift-prospecting: combining cosmogenic nuclides and ice sheet modeling in the central Arctic”. In late November, CSPG speaker Jim Letourneau gave a far-reaching (even to Indonesia!) presentation titled “*Regional underpressure and gas saturation in the Upper Cretaceous and Tertiary of Central Alberta*”. Also in November, new Adjunct Professor Tim Webster (CoGS) gave a presentation on LIDAR imagery techniques, and former student Jeff Calder told us about his work in the offshore. In addition, throughout the term, graduate students presented talks on a variety of course-related and thesis-related topics. We appreciate all these presentations, some of which not only educate us but also include a free meal! Anyone interested in attending future events at Acadia should check out the website at <http://ace.acadiau.ca/science/geol/index.html>, as we have lots planned for the Winter term.

Peir Pufahl has been busy this term, teaching his new third-year course in carbonate sedimentology as well as structural geology. The carbonate course in conjunction with Ian Spooner’s clastic sedimentology class will round out the “soft-rock” curriculum at Acadia. Peir is also organizing a short course on the sedimentology and diagenesis of modern and Pleistocene carbonates of Bermuda, to be held in Bermuda in

late April–early May, 2007. Participants from outside Acadia are welcome. Contact Peir at Peir.Pufahl@acadiau.ca for more information.

In the first part of November, the department was represented by poster presentations at both the New Brunswick Department of Natural Resources’ “Exploration and Mining New Brunswick 2006” conference in Fredericton, and at the Nova Scotia Department of Natural Resources “Mining Matters” conference in Halifax. In Fredericton, graduate student Aaron Satkoski presented preliminary results of his M.Sc. thesis project, and Sandra Barr presented two posters, one on platinum-group minerals in the Mechanic Settlement Pluton and a second on a new map compilation in the Saint John–Beaver Harbour area. In Halifax, graduate student Sheri Lyon presented background information on her M.Sc. thesis project on the magnetic and gravity anomalies offshore from southeastern Cape Breton Island. Everyone is focusing now on the upcoming AGS colloquium in Moncton, for which a major Acadia delegation is anticipated.

The annual Christmas party and pot-luck supper was held at Rob and Wendy Raeside’s house on the evening of December 2nd, and we once again thank them for their exceptional hospitality. As always, the food was great (who would think that geologists would be such creative and excellent cooks?) and the “gift exchange” was entertaining, as always. At least everyone went home with a gift, albeit not generally the one that he/she most wanted!

Sandra M. Barr
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DALHOUSIE UNIVERSITY

New Canada Research Chair

Earlier this Fall, we welcomed Dr. Mladen Nedimovic as a Canada Research Chair Tier II in Geophysics and Petroleum Exploration. Mladen has a Ph.D. from University of Toronto, and is an Adjunct Research Scientist at Lamont-Doherty Earth Observatory of Columbia University.

He writes: “I am a geophysicist with over 15 years of experience in reflection seismology and geological interpretation of seismic images. My work in academia and the petroleum industry has involved imaging methodology development, and collecting, processing and interpreting 2D and 3D seismic reflection data. These data were collected on land and at sea for various purposes, from exploration to environmental, and at various scales, from engineering to crustal. I am a Principal Investigator as well as co-PI on projects funded by the US National Science Foundation, Natural Sciences and Engineering Research Council of Canada, Canadian Foundation for Innovation, Nova Scotia Research and Innovation Trust, Lamont-Doherty Earth Observatory Climate Center, and Vetlessen Foundation, as well as other organizations. My current research is focused on rifting and crustal accretion processes at intermediate- to fast-

spreading centers, subduction zone structure and seismic hazards, petroleum exploration at passive margins, current deformation, physical oceanography using reflection imaging, and climate change”.



Mladen Nedimovic is a geophysicist who has recently joined the Earth Sciences Department at Dalhousie University (photo courtesy of Martin Gibling).

AUGC 2006

This year's meeting of the Atlantic Universities Geological Conference took place at Dalhousie from October 26-28, 2006, ably headed up by Mike Giles and Alana Haysom (co-chairs of the Organizing Committee). Field excursions were blessed with excellent weather, and visited Carboniferous rocks and fossils at Horton Bluff (lead by Dave Scott), Meguma Group turbidites and black shales at Tancook Island (lead by Peter Wallace), and the South Mountain Batholith (lead by Mike MacDonald of NSDNR). There was an excellent day of oral presentations and posters, and an enjoyable banquet with awards in the evening. The Organizing Committee is grateful to financial sponsors and to many supporters who worked very hard to make the event happen. On to next year at St. Francis Xavier University!

Shell Experiential Learning Fund (SELF)

Under an arrangement between Shell Canada and the Dalhousie Department of Earth Sciences and Faculty of Engineering, Shell Canada will donate \$200,000 over 3 years to each unit. The official inauguration of the SELF program took place on September 13, 2006, but activities commenced during the summer with research programs conducted by undergraduate students Cody McDonald, Clarke Campbell, and Evan Brown. The funds have also been used to purchase much-needed equipment in support of field training and labs, including a field seismic system, a spectrometer, and a video projector to enhance the teaching of concepts in petrography and diagenesis.



Dave Collyer of Shell Canada (left) with Dalhousie students (including Joyia Chakungal and Sheila Ballantyne, centre front and back), Dean of Science Keith Taylor and Martin Gibling (back row)(photo courtesy of Martin Gibling).

As part of the program, a 3-day field excursion entitled “*Petroleum System Analogues*” took place in late September with more than 30 participants. Excursion leaders were Elisabeth Kosters, Dave Scott, Ralph Stea, Grant Wach, and Martin Gibling, and petroleum geologists Todd Noble and Jon Noad of Shell joined us from Calgary. The participants visited the Quaternary and modern systems of the Eastern Shore and Bay of Fundy, and Carboniferous, Triassic and Cretaceous strata, with an obligatory day at Joggins. We are especially grateful for the assistance of adjuncts Elisabeth Kosters and Ralph Stea. We had pretty good weather, and the students presented a report as part of the 4th year petroleum class.



Elisabeth Kosters contemplates a shovel at the Rainy Cove tidal sand-bar, Bay of Fundy, during on the SELF Field Excursion (photo courtesy of Martin Gibling).

Undergraduate Theses

Eighteen honours students presented their theses during a full day of seminars in April 2006. Their research covered a wide range of subjects, including the taxonomy of dinosaurs from British Columbia, sediment discharge at Dartmouth Crossing,

polluted mine sites on the eastern Shore, salt tectonic modeling, and Arctic foraminifera.

Graduate Theses

Seven students defended their theses in 2006:

Owen Sherwood (Ph.D.) “*Deep-sea octocorals: Dating methods, stable isotopic composition, and proxy records of the slopewaters off Nova Scotia*” (Supervisor: David Scott)

David Risk (Ph.D.) “*Exploring the environmental sensitivity of natural soil CO₂ emissions: Do roots and soil microbes respond to different climatic cues?*” (Supervisor: Lisa Kellman)

Anne Marie O’Beirne-Ryan (Ph.D.) “*Weathering history of granitoids of the South Mountain Batholith, N.S., Canada: Mineralogy, geochemistry and environmental implications of saprolites*” (Supervisor: Marcos Zentilli)

Saskia Erdmann (Ph.D.) “*Country-rock contamination and assimilation in the South Mountain Batholith*” (Supervisor: Barrie Clarke)

Steven Ings (Ph.D.), “*Passive continental margin salt tectonics: Numerical modelling, analytical stability analysis, and applications to the Scotian Margin, offshore eastern Canada*” (Supervisor: Chris Beaumont)

Jennifer West (M.Sc.) “*Thaw lake dynamics in the Present and in a warming climate*” (Supervisor: Lawrence Plug)

Joyia Chakungal (Ph.D.) “*Geochemistry and metamorphism of metabasites and spatial variation of P-T paths across the Bhutan Himalaya: Implications for the exhumation of the Greater Himalayan Sequence*” (Supervisor: Djordje Grujic)

Elizabeth May Geomatics Computer Centre

In large measure through funding from an anonymous donor, renovations to the GIS lab have been completed. The lab was officially named on November 8 with Dalhousie President, Tom Traves, cutting the ribbon. Demonstrations of the lab capabilities were given by Charlie Walls and Dan Rainham. The lab is now on the “tour circuit” as a state-of-the-art science lab (it is a while since our labs have been in that category!).

McEachern–Ponsford–Keen Awards

We held the 20th annual event in September 2006. The event primarily remembers Ian McEachern and Mark Ponsford, who were tragically killed in a trench accident in 1984, and has served as a constant reminder to faculty and students about the importance of safety in our professional work. In more recent years, we have presented an award in memory of Mike Keen, and also the James L. Hall Award. Recipients of the awards this year were Duncan McLeish, Andreane Blentzas, Adam Leather, and Luke Hilchie.

Discovery Centre Awards

At the Awards Banquet on November 30, Dave Risk received the Emerging Professional of Distinction Award. Dave is on faculty at St. Francis Xavier University, and completed his Ph.D. thesis in 2006 at Dalhousie University, under the supervision of Lisa Kellman from St. Francis Xavier University. Also shortlisted for this award was Tony Barresi,

who is enrolled as a Ph.D. student under the supervision of Jarda Dostal. Congratulations to both of them!

Martin Gibling

MGibling@dal.ca

ST. FRANCIS XAVIER UNIVERSITY

The Department of Earth Sciences has been a very lively place over the past few months. Awards and grants have been received by several of our faculty members and we have a very active group of students this year.

Two publications by our professors have received accolades from internationally renowned journals in the past several months. Mike Melchin and his co-authors were awarded the 2006 Best Paper Award from the Journal of Paleontology for their paper “*Patterns and processes of Latest Ordovician graptolite extinction and recovery based on data from South China*”. A paper written by Hugo Beltrami, professor in the St. Francis Xavier University’s Environmental Sciences Research Centre, with Fidel González-Rouco, summer of 2005 James Chair professor from the Universidad Complutense de Madrid, and M.Sc. student Bruce Stevens was chosen as a highlight article for Geophysical Research Letters. This paper, “*Subsurface temperatures during the last millennium: Model and observation*”, examined the correlation between temperatures measured in deep boreholes and the results of general circulation models. It was found that the best agreement between the two occurred when anthropogenic carbon dioxide emissions were included in the general circulation models.

St. Francis Xavier University was well represented at the AUGC this year with a number of presentations given by our students. Dan Lambert, Kim Ells, Nick Nickerson and Marie Barker all gave presentations based on their current research. Several students are also planning to give presentations this year at the AGS Colloquium in Moncton.

Grant Ferguson recently received an NSERC Collaborative Research Grant with Manitoba Hydro on low temperature geothermal energy. This funding will be used to instrument research sites in Manitoba, where the findings will be used to guide development of a regional aquifer for heating and cooling applications.

Additional geothermal research is also planned for British Columbia in the coming year.

The department was fortunate to have Sergei Pisarevsky of the University of Western Australia as James Chair Professor this summer and fall. During his visit he worked towards providing a unified explanation for some enigmatic aspects of Neoproterozoic global paleogeography. Dr. Pisarevsky uses paleomagnetic data to study this pivotal interval in the Earth’s history, involving global scale mountain building, rapid changes in climate, new oceans being developed, rapid diversification of life, and the first appearance of shelly fossils.

David Risk, our newest full-time faculty member, was awarded the prize for Emerging Professional of Distinction at the 4th Annual Discovery Centre Awards for Science and Technology. Dave's work on carbon storage in forest soils, gas movement in the shallow subsurface and measurement techniques has led to several patents, active collaborations with government, industrial research partners and funding to support undergraduate researchers working on projects in the M-Cube Research Group within the Environmental Sciences Research Centre in our department.

Grant Ferguson
GFerguson@stfx.ca

UNIVERSITY OF NEW BRUNSWICK

Tammy O'Donnell (undergraduate Administrator) joined our department this Fall, as did Dr. Ven Ready, who takes over as the technician for the XRD and ICP facilities. Welcome to you both!

Richardo White completed his M.Sc. thesis entitled, "Pseudo-3D seismic imaging of intertidal and sub-tidal zones at Waterside Beach, Bay of Fundy, NB" with Prof. Karl Butler. Also, Donovan Blissett successfully defended his Ph.D. on "Ichnology and Sedimentology of the Cenozoic White Limestone Group, Jamaica, West Indies: With Palaeobiogeographic Implications", which was supervised by Prof. Ron Pickerill. For more information on our current graduate student research, please check out our website (<http://www.unb.ca/fredericton/science/geology/>).

UNB Geology hosted a NB Canadian Institute of Mining, Metallurgy and Petroleum Student Night, where the NB CIM President Paul Rennick (NB Dept. of Natural Resources) gave an overview talk of the role CIM plays in our field. At the end, NB Coal donated each of the students a copy of Gesner's Dream (authoured by Gwen Martin). Thanks are extended to NB CIM for their generosity and to NB Coal.



Andrew Gorman of the University of Otago is standing in front of lime san-encrusted pillow basalts that are exposed in a beach cliff at Oamaru, New Zealand (better known for its blue penguins) (photo courtesy of Karl Butler).

Jane Simmons and Kristy-Lee Beal were both awarded scholarships by the Women's Association of the Mining Industry of Canada (more details on the UNB Geology website). Our students attended the Atlantic Universities Geological Conference, in part supported by the Prospectors and Developers Association of Canada. Jillian Martin (supervisor Prof. David Lentz) won the best Economic Geology presentation. They very much appreciated the well organized event, especially the excellent field trips.

Our students had a great opportunity to visit the Belledune Smelter and Brunswick No.12 mine and mill. Thanks go out to Tim Babin and Michel Cotton of Xstrata Zinc Plc., who help lead the trips. Also, our students visited both Mount Pleasant (thanks to ADEX Resources) and Clarence Stream (thanks to Freewest Resources).



Spectacular exposure of stromatolite mounds at low tide in the hypersaline waters of Shark Bay, Western Australia (better known for its dugongs, dolphins, and sharks)(photo courtesy Karl Butler).

Prof. Karl Butler has just returned from a 5-month sabbatical visit "down under" where he and his Ph.D. student Christian Dupuis collaborated with colleagues at Curtin University to carry out some very rewarding field experiments investigating seismoelectric phenomena in the surficial aquifer of the Ganangarra Mound near Perth, Australia. He sends the two preceding photos to demonstrate that he has made a point of visiting some of Australia and New Zealand's natural geological wonders.

While on an invited lecture tour of South Korea, Prof. Dave Lentz had a chance to visit the famous UNESCO World Heritage Site "Seokguram Grotto and Bulguksa Temple" The temple was built in 774 and, together with the grotto, forms a religious architectural complex of exceptional significance (visit <http://whc.unesco.org/en/list/736> for a description of this masterpiece of Buddhist art in the Far East).

Dave Lentz
DLentz@unb.ca

FIELD NOTES

NEIGC FIELD TRIP



UNB delegation to the New England Intercollegiate Geological Conference. Left to right: John Evangelatos, Simon Craggs, Shawn McClenaghan, Andy Parmenter, Craig Evans, and Holly Chin, with Dr. D. Lentz on the ground. Penny Humby and David Shinkle are missing from photo (photo courtesy of David Shinkle).

From September 29th to October 1st 2006, the 98th meeting of the New England Intercollegiate Geological Conference was held at the Saddleback Ski Area, Rangeley, Maine (<http://www.neigc.org/NEIGC/2006/>). The University of New Brunswick was represented by nine seasoned explorers lead by Dr. David Lentz.

On the first day of the conference, our group visited rocks in Eustis, Maine, and saw rocks from the region belonging to the Maine segment of the Taconian arc. The dominant rock type of the region is the diatexitic Chain Lakes massif, which displayed spectacular textures arguably the result of melt-driven disaggregation of a volcanic-sedimentary stratigraphy (see following photo). Our group claimed an outcrop in the name of UNB, although our defenses where overrun and we where forced to surrender.

The field trip on Saturday, September 30th consisted of a hike up Bald Mountain to see the structural geology and stratigraphy of the Wilton-Weld area, northwestern Maine. Unfortunately, our group of brave explorers got lost and missed the meeting for the field trip. To the rescue, our brilliant ambassadors from UNB conducted their own expedition up Bald Mountain, and observed some marvelous andalusite and chiastolite porphyroblasts.

On the last day, our group went to the Rangeley-Rumford area to visit the deformed, metamorphosed, melted and crystallized rocks in the orogenic system (without getting lost). We visited some phenomenal staurolite bearing metamorphic rocks, as well as some spectacular migmatites and associated sub-solidus rocks. The trip focused on migmatites closer to



UNB explorers in search of andalusite and chiastolite porphyroblasts (photo courtesy of David Shinkle).

Rumford, particularly the Mooselookmeguntic Igneous Complex and other associated bodies.

Dave Shinkle
a4312@unb.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)
G. Baldwin	B.Sc. (Honours) - The sedimentology and diagenesis of a Mississippian Brachiopod Biostrome in the vicinity of Newport Landing, Hants County, Nova Scotia	P. Pufahl
R. Cavalcanti de Albuquerque	B.Sc. (Honours) - The southern Nova Scotia Wine Terroir: A geological and pedological approach including the cation exchange capacity of soils from vineyards	I. Spooner
L. Gaudette	B.Sc. (Honours) - A machine-based learning approach to short term climate variability, Annapolis Valley, Nova Scotia (Computer Science)	D. Silver I. Spooner
C. Laflamme	B.Sc. (Honours) - Gold and Sulphides in the Triple Seven Volcanic-hosted Massive Sulphide Deposit, Flin Flon, Manitoba	C. Stanley
M. Samolczyk	B.Sc. (Honours) - Arsenic, uranium and other key constituents in water from drilled wells: a study of local geochemistry and its effects on the residents of Grand Pre, Nova Scotia (Environmental Science)	I. Spooner C. Stanley, L. Lusby
T. Smith	B.Sc. (Honours) - A Baseline Assessment of Surface Water Quality in the Kesagami River Wilderness Area, Ontario (Environmental Science)	I. Spooner T. Reynoldson
S. Anderson	M.Sc. - Chemical sedimentology of Paleoproterozoic phosphatic iron formation in the Labrador Trough and the evolution of the early ocean	P. Pufahl
G. Bukharin	M.Sc.	N. Van Wagoner
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
J. Texidor-Carlsson	M.Sc. - Metallogeny of the Caledonia Highlands, southern New Brunswick	S. Barr C. Stanley
DALHOUSIE UNIVERSITY		
F. Akram	Ph.D.	G. Wach
J. Antinao-Rojas	Ph.D.	J. Gosse
T. Barresi	Ph.D.	J. Dostal
A. Bashforth	Ph.D. - Paleoecology of extrabasinal plant assemblages during the Pennsylvanian	M. Gibling H. Falcon-Lang
G. Brake	M.Sc.	G. Wach D. Mosher
J. Chakungal	Ph.D.	D. Grujic
J. Cullen	Ph.D.	K. Loudon

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
S. Erdmann	Ph.D. - Contamination of granites by metasedimentary country-rock material	B. Clarke
J. Gerlings	Ph.D.	K. Louden
S. Goss	M.Sc.	G. Wach D. Mosher
S. Gradmann	Ph.D.	
A. Hidy	M.Sc.	J. Gosse
T. Huppertz	M.Sc.	Piper
O. Imbarek	M.Sc.	G. Wach
S. Ings	Ph.D. - Numerical modelling of passive margin salt tectonics with applications to the Scotian Margin, offshore eastern Canada	D. Grujic C. Beaumont
D. Kellett	Ph.D.	D. Grujic
A. Layman		A. Anderson
J. Loxton		
V. Maharaj		
D. Nitoiu	Ph.D.	H. Beltrami
A. Orozco-Garza	Ph.D.	J. Dostal
S. Sikaneta	M.Sc.	L. Plug G. Wach
K. Simon	M.Sc.	C. Beaumont
K. Simpson	M.Sc. - Sequence stratigraphy and seismic geomorphology of the West-Central Scotian Slope	G. Wach
D. Skilliter	Ph.D.	G. Wach
K. Vaughan	M.Sc.	D. Godfrey-Smith
H. Vincent	Ph.D.	G. Wach
C. Ward-Paige	Ph.D.	L. Plug
J. West	M.Sc.	L. Plug
Yue Wu	Ph.D.	K. Louden
B. Rae	B.Sc. (Research Project)	
J. Butler	B.Sc. Honours	
C. Campbell	B.Sc. Honours	
M. Ferguson	B.Sc. Honours	
C. Galbraith	B.Sc. Honours - Tourmaline chemistry as a potential indicator for Emerald Mineralization at Tsa da Glisza, Southern Yukon	B. Clarke

M. Giles	B.Sc. Honours - Cenozoic stratigraphy, SW Scotian Slope: deep-water sediment delivery mechanism on a passive margin	D. Mosher
K. Graham	B.Sc. Honours	
A. Haysom	B.Sc. Honours	
H. Jaggard	B.Sc. Honours - Establishing potential for leaching of Hg and As from soils in the Montague Gold District, Nova Scotia	A.M. Ryan T. Goodwin
S. Kelley	B.Sc. Honours - A study on the Kingnait Moraines and coinciding esker systems, Baffin Island, Canada	J. Gosse
C. MacDonald	B.Sc. Honours	
S. Mason	B.Sc. Honours	
H. Neilson	B.Sc. Honours	
A. Parsons	B.Sc. Honours	
D. Pelley		
K. Sutton	B.Sc. Honours - Oikocryst alteration in the Meguma Group Gold Deposits, Nova Scotia	R. Horne B. Jamieson
MEMORIAL UNIVERSITY		
D. Arsenault	B.Sc. - Petrography and geochemistry of the Archean Woodburn Lake Group, Pipedream Lake, Nunavut	G. Jenner
J. Cribb	B.Sc. - Depositional Environment and Diagenesis of the basal Ben Nevis Formation, Well E-18_1, White Rose Field, Jeanne d'Arc Basin, offshore Newfoundland	R. Meyer
J. Koops	B.Sc. - A Geophysical Investigation of the Boomerang Massive Sulphide Deposit	H. Miller
J. MacDonald	B.Sc. - A petrographic and geochemical analysis of the Anuri Prospect, Prince Albert Group, Committee Bay, Nunavut	G. Jenner
M. Prochotsky		R. Jamieson
H. Rafuse	B.Sc. - Investigation into the Geochemistry and Petrology of Gabbroic Dykes in the Northern Grenville Province	T. Rivers
C. Boone	B.Sc. - A Study of the SP Geophysical Technique in a well-characterized Field Area	A. Leitch
C. Brown	B.Sc. - A Comparison of Inverted Polarization Data from the Buchans Area	H. Miller, B. Scott
D. Courage	B.Sc. - The Economic Potential of the Howells River Taconite Deposit	D. Wilton
C. Garland	B.Sc. - Bedrock Determination at Wishing Well Park Recreation Facility Using High-Resolution Seismic Refraction	C. Hurich
A. Greening	B.Sc. - Petrographic and Geochemical Study of the Ford's Bight Diatreme, Central - Coastal Labrador	D. Wilton
A. Hung	B.Sc. - Geophysical surveys to determine the extent and distribution of basaltic sill units in the subsurface	A. Leitch
M. Layman	B.Sc. - Geochemical and Petrographical Examination of Ultramafic Xenoliths, Voisey's Bay Deposit, Labrador	D. Wilton
S. Maloney	B.Sc. - Geochemical Analysis of the Mafic Dyke suite in the Reid Brook Zone, Voisey's Bay Ni-Cu-Co Deposit, Labrador	D. Wilton
N. Montevecchi	B.Sc. - Imaging and interpretation of reflection data in the Carson Basin, SE Newfoundland continental margin	J. Hall

E. Morin		D. McIlroy
D. Skipton	B.Sc. - A Geochemical and Petrographic Study of a Series of Metamorphosed Gabbro Dykes from Southeast of the Grenville Front in the Grenville Province, Quebec	T. Rivers
B. Sparrow	B.Sc. - Lithochemical, oxygen isotope, and petrographic study of uranium mineralization in relation to hematization deposition in the Deer Lake Basin	D. Wilton
L. Stokes	B.Sc. - Classification of Granitoid Phases within the Island Plutonic Suite, Northern Vancouver Island, B.C.	D. Wilton
J. Turner	B.Sc. - The Use of High Resolution Ichnofabric Analysis to Characterize the Scale of Ichnofabric Variability	D. McIlroy
S. White	B.Sc. - A Study of the Manicouagan Shear Zone in the Grenville Province of Eastern Quebec: Metamorphism and Structure in the Footwall Beneath the High Pressure Belt	T. Rivers
M. Ash	M.Sc.	H. Miller
B. Bonnell	M.Sc. - High resolution characterization of reservoir heterogeneity with seismic data: a feasibility study	C. Hurich
C. Buchanan	Ph.D. - Title: Structural Controls and Metallogenesis of Au-bearing Meso- and Epizonal Veins; Gander Zone, Central Newfoundland	T. Calon
C. Burrige	M.Sc. - Isotope Tracing of Atmospheric Aerosols in the Subarctic Pacific	
P. Collins	M.Sc. - Evaluation and characterization of the exploration potential for nickel sulphides in several mafic-ultramafic intrusive complexes in Newfoundland	D. Wilton
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
D. Duff	M.Sc. - Physical property analysis and numerical modelling for planning of surface seismic surveys, Voisey's Bay	C. Hurich J. Hall
S. Eaton	M.Sc. - Distinguishing Between Natural and Anthropogenic Sulfate Aerosols Over The Remote Marine Atmosphere of the North Atlantic using Sulfur Isotopes	A-L. Norman
R. Burton-Ferguson	Ph.D. - Tertiary Evolution of the Orphan Basin, Offshore Newfoundland	R. Hiscott M. Enachescu
E. French	M.Sc. - Sequence stratigraphic controls on facies and facies-architecture in the tide-dominated marginal marine Lajas Formation, Neuquen Basin, Argentina	D. McIlroy R. Meyer
B. Galal	M.Sc. - Seismic and Sequence Stratigraphy of Grand Banks	A. Aksu M. Enachescu
E. Gillis	M.Sc. - The Sedimentology and Stratigraphy of the Blow Me Down Formation, Humber Arm Allochthon, Humber Zone, Western Newfoundland	T. Calon E. Burden
M. Greene	M.Sc. - The diagenetic evolution and porosity development associated with dolomitization in the Catoche Formation, Port au Choix Peninsula, Newfoundland	K. Azmy
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
Huminicki, M.	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

D. Hyde	M.Sc. - The nature and timing of Au mineralization in banded iron formations, Prince Albert Group, Nunavut	G. Jenner
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. Kearsey	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. Khorikov	Ph.D. - Advanced oil wellbore simulations as a key to enhanced oil recovery	T. Johansen
Y. Kinakin	M.Sc. - Mantle Modelling	A. Leitch
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
C. Marion	M.Sc. - Age and origin of the Impact Melt at Mistastin Lake crater, Labrador	P. Sylvester D. Wilton
M. Martin	M.Sc.	M. Enachescu J. Wright
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
L. Normore	M.Sc. - Distribution of cements and impact on quality of the Ben Nevis/Avalon reservoir in the White Rose Field, offshore Newfoundland, Canada	R. Meyer
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
R. Sapkota	Ph.D. - Seismic Inversion for Earth Parameters	P. Bording
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
J. Smith	M.Sc. - A seismic and structural interpretation of the rifting evolution in the Flemish Cap area	J. Hall

P. Smith	M.Sc.	M. Slawinski A. Bóna
K. Solvason	M.Sc. - Seismic Reflection Imaging of Sedimentary Basins on the Newfoundland Margin of the Atlantic Ocean	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
C. Valverde		A. Indares G. Jenner
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. Boudreau	B.Sc. - Geochemical constraints on the clay sources used in Deichmann pottery (Moss Glen, N.B., c.1935-1963)	J. Owen
N. Boudreau	B.Sc. - A geochemical comparison between the Kitselas and Talkwa volcanics, British Columbia	J. Dostal
A. Delazzer	B.Sc. - Physical properties of metabasites from the Cobequid Hills: a potential source of industrial stone	J. Owen
N. Jansen	B.Sc. - Geochemistry and alteration of the volcanic rocks hosting the Ixhuatan gold deposit, southern Mexico	J. Dostal
M. LeForte	B.Sc. - Weathering profile developed on the Middle Ordovician Dunn Point Formation rhyolite of northern Nova Scotia	P. Jutras
A. Ahmed	M.Sc.	J. Dostal
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 access acid rock drainage potential in Nova Scotia	P. Jutras
J. MacLeod	M.Sc. - Viséan tectonostratigraphy of the Cumberland Basin of New Brunswick and Nova Scotia	P. Jutras
J. Suma-Momoh	M.Sc.	J. Dostal
ST. FRANCIS XAVIER UNIVERSITY		
J. Beal	B.Sc.	M. Melchin
C. Lyall	B.Sc. - Mapping nutrient transport and water quality in the Antigonish Harbour estuary	O. Costa
L. Steele	B.Sc.	B. Murphy
J. Braid	M.Sc. - Tectonic relationship between the South Portuguese and Ossa Morena Zones, Spain	B. Murphy
D. Dawson	M.Sc. - Morphology and phylogeny of some Early Silurian monograptid graptolites from Arctic Canada	M. Melchin
M. LaPointe	M.Sc. - Hydrothermal fluid-mineral interactions	A. Anderson
A. Layman	M.Sc. - Nb transport in aqueous fluids	A. Anderson

J. Loxton	M.Sc. Quantitative analysis of graptolite biodiversity patterns in the Late Ordovician-Early Silurian succession ad Dob's Linn, Scotland	M. Melchin
L. Novy	M.Sc. - Effects of waste hydraulic properties of landfill engineered systems	G. Ferguson J. VanGulck
C. Ortega	Ph.D. - Origin and evolution of the Olinina Complex, southern Mexico	B. Murphy
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. Kellman
A. Myette	M.Sc. - The Effect of Landuse Change on the Production of Carbon Dioxide in the Soil Profile	L. Kellman H. Beltrami
K. Kavanaugh	M.Sc. - Changes in nitrous oxide emissions and production in intact forests and harvested forests in Atlantic Canada	L. Kellman H. Beltrami
B. Stevens	M.Sc.	L. Kellman H. Beltrami
S. Cole	M.Sc.	Scrosati
L. Eckersley	M.Sc.	Scrosati
C. Longtin	M.Sc.	Scrosati
J. Tam	M.Sc.	Scrosati
S. Choi	M.Sc.	L. Kellman H. Beltrami
UNIVERSITY OF NEW BRUNSWICK (note: B.Sc. Honours theses are not listed on the UNB website)		
H. Abgogun	Ph.D.	T. Al
V. Banks	M.Sc. - The investigation of metal mobility during <i>in situ</i> chemical oxidation of trichloroethylene and perchloroethylene by potassium permanganate	T. Al
M. Battler	M.Sc. - Formulating lunar regolith simulant	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.	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
J. Hudgins	M.Sc. - Deep-level metamorphic rocks from the Moon	J. Spray
I. Ivanov	Ph.D. - Deformation mechanisms in the area of Rocky Brook Millstream strike-slip fault zone, NB	P. Williams
S. Kruse	Ph.D. - Structural geology of the Mt. Begbie region, Monashee Complex	P. Williams
J. LaFontaine	M.Sc. - Devil Pike Brook gold deposit, Mascarene Belt, south-central New Brunswick: an example of a lode gold deposit in the Canadian Appalachians	D. Lentz

A. Lawfield	Ph.D. - Sedimentology, stratigraphy and ichnology of the Cretaceous Ben Nevis Formation, Newfoundland and Missisauga Formation, Nova Scotia	R. Pickerill
A. Majumdar	Ph.D.	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. O'Connell	Ph.D. - Central uplift formation in complex impact structures	J. Spray
A. Parmenter	Ph.D. - Structure of the Cranberry Mountain region of the Thor-Odin dome, Monashee Complex, and its bearing on the tectonic evolution of the Canadian Cordillera in southeastern British Columbia	P. Williams
B. Petrunic	M.Sc. -Aqueous geochemistry and mineralogy of tungsten mine tailings, Mount Pleasant, NB	T. Al
D. Shinkle	M.Sc. - Long Lake uranium deposit, north-central New Brunswick: a granite-hosted uraniferous polymetallic vein system in the Canadian Appalachians	D. Lentz
R. Subudhi	Ph.D.	T. Al
R. Toole	M.Sc.	D. Lentz
S. Vetter	Ph.D. - Petrogenesis of gold deposits with the Middle Ordovician Fourier Group accretionary wedge, northeastern New Brunswick	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