



ATLANTIC GEOSCIENCE SOCIETY

NEWSLETTER

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The deadline for submissions to the next issue is January 6, 2006. Please send articles or feedback to:

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Submissions were solicited and compiled by Chris White and Mike MacDonald.

PRESIDENT'S FORUM

I have written the following quickly but carefully. It is to the point, but my brevity is not meant to be read as curtness, and any poor choice of words is due only to the fact that I left my thesaurus at home today. Questions are asked only from the basis of lack of vast personal knowledge of the subject matter (ignorance if you like), and comments are made from a neutral standpoint even though I may emphasize one approach over another (I simply need to explain my view of a less extensively discussed approach more carefully). Please do not try to read between the lines, because there are no ulterior motives, paybacks, or slights on character and integrity lurking between my statements.

Any communication between individuals and groups is fraught with the possibility of misunderstanding, hence my introductory disclaimer. Of course, face-to-face discussion allows body language, hand signals, and voice intonation to be expressed and monitored indirectly alongside the actual verbal communication, minimizing the potential for misunderstanding and potential conflict. For many people the 'phone is the next best thing, since the monitoring of voice intonation, and the ability to instantly cater to any perceived sense of unease, is more than sufficient. For those who have good telephone skills, the age of text messaging, message boards, internet chat rooms, and e-mail is most likely seen as a significant negative: discussion via the written word, bereft of vocal intonation, can be seen as highly impersonal. To those who rely more on body language and, or, are not comfortable on the phone (I include myself in this group since my arm-waving continues unabated even during phone calls), this second step down, from telephony to e-mail is an easier adjustment—our major indirect method of monitoring a correspondent is missing when visual contact is removed. Regardless of the stage that important indirect signals are lost, misunderstanding is most likely to develop and persist with the written word. (Since writing has been around for much longer than the ubiquitous 'phone, you would have thought that by now we would have come up with something better than the annoying smiley faces (:-) in order to express mood on the written page.)

For assessing potential misunderstandings in the written word, an electronic discussion between colleagues where you are more of an arbitrator than a contributor can be illuminating. Knowing many of the various individuals better than they do each other, you read one comment and recognise a simple but naive question, typically one expressed in the negative (e.g., "Can't we do this instead?"). Next minute a deprecating reply is sent by another participant who then also e-mails you to (a) complain about the tone of the questioner, and (b) that because of the impersonal nature of e-mail, people should take more care with what they write.

Until the above situation happened with me, I had always acknowledged that people should just take more care with what they write, and I have apologized whenever it has been mentioned that offence was taken with one of my messages. While I still view this to be a valid approach, consider this: the complainant in the above situation acknowledges that e-mail is impersonal and that in e-mail you

cannot, for example, recognize any underlying intent from the tone of voice. Despite this, the complainant interprets a certain “tone” to the questioner’s e-mail, even while stating in the next phrase that a person cannot recognise tone in e-mails. The complainant is preconceived to looking for conflict. Why? What makes that person immediately suspicious and so quick to look for an underlying devious motive rather than reading a question simply as it is written?

Despite its impersonal nature and, of course, the very annoying spam, the benefits of electronic communication and the written word often go under-appreciated. For instance, on a couple of occasions during the last few months, urgent funding requests of the AGS that remained stalled at the time of a council meeting due to outstanding contingencies, were subsequently passed via group e-mail discussion and voting in a much quicker (and cheaper) manner than could have been possible by organizing a follow-up one-item meeting by conference call. To their credit, your councillors have maintained civility throughout such process, although at one point when the e-mails were flying, the observation was made to me that we do not have any guidelines for appropriate e-mail conduct should civility start to break down. Hence this article.

- ! I would challenge our community that during e-communication (or any written communication) there is a responsibility on both the writer and the reader.
- ! Take care with what you write, and read carefully before you send. From experience, do not be too brief but provide/reiterate some background to your subject.
- ! Readers should always consider that the writer is attempting a positive contribution. How many items have you written that you thought were perfect, only to find the editor or reviewer, has found ambiguities or contradictions throughout. You are not a perfect editor of your own work so do not expect the same of others. Accordingly, give the benefit of doubt or politely ask for clarification from the writer rather than assuming an attempt at conflict or interpreting a personal slight.

Without this type of reader’s response, might my opening paragraph be required as a type of standard disclaimer on all future outgoing discussion documents? I hope not.

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A NEW GEOLOGICAL HIGHWAY MAP OF NOVA SCOTIA

For many years students, teachers, visitors and geologists have been using the AGS’s *Geological Highway Map of Nova Scotia* in classrooms, university courses, and in the field. Previous editions have been out of print for two years and a new edition of the map has been needed for some time. Now

there is a new, third edition to this ever popular map. All editions of the maps have been best sellers. Since the first edition was published in 1980 more than 40,000 copies have been distributed.

Geological highway maps are a particularly interesting version of regular geological maps. The new edition of the *Geological Highway Map of Nova Scotia* connects the highway system with the distribution of rock units, fossil and mineral collecting sites, rock outcrops, and specific points of interest. It depicts the latest understanding of the geology of the province, shows the connection between landforms and geology through block diagrams, and locates many areas for further exploration.

The front of the map provides the user with an overview of the latest interpretation of the province’s geology at a scale of 1:640000. The usual details of road network, villages, towns, cities, rivers and lakes are named and located. Overlying these features is the geology shown by various colours representing distinct formations and groups of rocks. The guide to the geology is the table of formations in the lower right of the map. Here, four separate columns list the rock units found on the southern mainland, northern mainland, western Cape Breton Island, and southeastern Cape Breton Island. Each area has generally had a separate geological history, from the Proterozoic to the beginning of the Late Carboniferous, related to the formation and movement of distinct terranes. From the Late Carboniferous onward the geological histories are the same.

Superimposed on the geological, cultural and geographic features are descriptions of 64 geological sites of interest. In a paragraph or two, these numbered descriptions provide details that animate the history of specific areas. For example, under site 40, details of the Cobequid Fault at Parrsboro are provided while, under site 61, a local museum is described. Other sites provide a glimpse into the mining history of an area such as the description of Fourchu Harbour (site 63). Students of history as well as geology will enjoy these brief descriptions.

Complementing the geological, cultural and geographic features of the map are six block diagrams illustrating a connection between landforms and the underlying geology. With the block diagrams, users are able to understand how differential weathering and erosion can change the landscape. When the information conveyed by these diagrams is coupled with local knowledge of land use, a regional scale of development planning is possible.

The reverse side of the map contains more detailed maps and descriptions of selected sites across the province. Eight areas were chosen to represent specific geological features or regions of interest: Joggins, Cabot Trail, Windsor region, Parrsboro to Five Islands shore, Yarmouth, Arisiag, Halifax metropolitan region, and Louisbourg National Historic Park. All of these areas have a map and annotations about what to see, do and/or collect.

Production of the map represents a four-way partnership between the Nova Scotia Geomatics Centre (Service Nova Scotia and Municipal Relations), Nimbus Publishing Ltd., Communications Nova Scotia and the AGS. The copyright is held jointly by Communications Nova Scotia and the AGS.

For anyone interested in the rocks and minerals, fossils and natural history of Nova Scotia, this map is a “must buy.” It works well with two other publications of the AGS: *Nova Scotia Rocks* (AGS Publication #21) and *The Last Billion Years* (AGS Publication #15). You may purchase the map for \$6.95 at museums, university, and private book stores, NS Geomatics Centre in Amherst, or from the Department of Natural Resources in Halifax.

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EDGEO WORKSHOPS

NEW BRUNSWICK

A three-day New Brunswick EdGeo workshop entitled “An Introduction to Geoscience for Educators” was held at the University of New Brunswick on July 18th and 19th, with a field trip up the trans-Canada Highway on July 20th. The event was organized by volunteers from the AGS and Science East and sponsored by the Canadian Geological Foundation, the national EdGeo program, the Association of Professional Engineering and Geoscientists of New Brunswick, and the AGS. This is the first time in almost 15 years that an EdGeo workshop has been run in New Brunswick. Ten educators attended, including elementary to highschool teachers and two Parks Canada officials.

The workshop included 14 presentations by experts from various institutions (UNB Geology, NB Dept. Of Natural Resources, -Minerals Branch, and NB Dept. of Environment & Local Government) to compliment the field trip on the last



The NB EdGeo group in front of the Lake George Antimony Mine. (photo: Dave Lentz)

day. The presenters were: Bruce Broster, Pam Dickenson, Warna Downey, Christian Dupuis, Don Fox, Anna Holdaway, David Keighley, David Lentz, Diana Loomer, Gwen Martin, Toon Pronk, Barbra Petrunic, Daniel Sinclair, Kathleen Thorne, Tim Webb, and Joe White. Topics ranged from the rock cycle to tsunamis, ice ages, sediments and soils, geoarcheology, mining, geophysics and geohazards/engineering.



NB EdGeo participants look on as Toon Pronk explains the glacial striae on Carboniferous sandstones in front of the Hugh John Fleming Forestry Complex. (photo: Dave Lentz)

The one-day field trip started from the UNB Fredericton campus up to Meductic where the Triassic-aged Caraquet Dyke crosses the Saint John River and the TransCanada Highway. On this transect we saw granite, pegmatite dykes, and flat-lying and folded sedimentary rocks with different sedimentary structures and fossils. We visited the now dormant Lake George antimony mine, and discussed the geomorphology of the Saint John River valley with its drumlins, terraces, kame deltas. The trip ended on a glacially smoothed/striated outcrop in front of the Hugh John Flemming Forestry Complex (where the NB DNR-Minerals Geological Survey makes its home).

The workshop was coordinated by David Lentz (UNB Geology), with help from Toon Pronk (NB DNR- Minerals); we thank all the volunteer presenters for their great presentations and activities, the participants for the coming out to see our interesting field of study, and the workshop sponsors for helping to offset the cost of supplying teaching materials. Teachers went home with a NB rocks and minerals kit, copies of “The Last Billion Years”, “Gesner’s dream”, CDs, many maps and pamphlets and posters, and hopefully lots of good ideas for their classrooms.

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NOVA SCOTIA

August 2005 marked the 12th anniversary for the Nova Scotia EdGEO Workshop Committee of AGS. The group returned to the Fundy Geological Museum for the fourth time since 1994 when the program started travelling the province. Ken Adams, Director of the Museum, with several of the staff helped ensure that the 3-day event was a success.

The NS EdGeo committee members are: Dottie Alt, Jennifer Bates (chairperson), Paul Batson, Andrew Casey, Sonya Dehler, Howard Donohoe, Mitch Ettinger, Rob Fensome, Terry Goodwin, Iris Hardy, Cindy Hiseler, Heather Johnson, Nelly Koziel, Bill MacMillan, Henrietta Mann, Murray Metherall, Nancy Muzzatti, Melanie Oakes, Patrick Potter, Anne Marie Ryan, John Shimeld, Kathy Silverstein, Deborah Skilliter, Wendy Spicer, Graham Williams, and Bev Williams.



The NS EdGeo group in front of Don Reid's Fossil Shop at Joggins. (photo: Jennifer Bates)

The one-day field trip to Joggins, led by Deborah Skilliter of the Nova Scotia Museum of Natural History, allowed participants to explore and learn about this world-class site. Hands-on sessions on rocks and minerals, geological time, fossils, plate tectonics, soils, and natural resources provided a solid foundation of geology to teachers and museum interpreters from different areas in Nova Scotia.

Plans for a workshop next year (*did I write that?!*) are “in the works” and the rumour is that St. Francis Xavier University is being scouted as one of the likely sites.

Jennifer Bates

Chair, NS EdGEO Workshop Committee

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NS EdGeo participants look for fossilized plant remains as Deb Skilliter (seated, with green shirt) prepares her infamous jelly-bean prizes. (photo: Jennifer Bates)

PARRSBORO GEM AND MINERAL SHOW

The AGS and Nova Scotia Prospectors Association (NSPA) jointly held a booth at the 40th Annual Gem and Mineral Show (formerly Rockhound Round-up) in Parrsboro, August 19th to 21st, 2005. Peter Wallace represented the AGS at the booth and many prospectors represented the NSPA (and relieved Peter when other duties called). The show was well attended with over 2700 people passing through over the 3 days—significantly more than in years past—and the arena was filled with dealers and exhibits.

Other AGS members were there to give talks and field trips, but the booth was particularly effective in providing visibility for the AGS. We were asked many geology-type questions by other dealers as well as the public, many interesting specimens were examined and described, and we sold many publications (including the recent Halifax'05 fieldtrip guides and the newly

published *Nova Scotia Geological Highway Map*). We also had fun meeting new and old friends at the show, and doing demonstrations.

The show included a birthday celebration with cake (40 is a significant milestone after all), and a ceremony to officially dedicate the event to Marilyn Smith who recently passed away. The show is a big attraction year after year and many of the visitors and dealers will dearly miss Marilyn, its greatest promoter.

The AGS supports events that promote the geosciences in Atlantic Canada, and this event is ideal in that it reaches several thousands of people. Its goals are our goals: promoting Atlantic geology, rocks, minerals, and fossils. And they have fun doing it! At what other show do exhibitors get coffee and muffins delivered to their booths twice a daily? I recommend that everyone in the AGS should make this show one of their stops next summer. If you'd like to get involved contact your AGS councilor and talk also with Carol Corbett of the Fundy Geological Museum.

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Doug Bowes of the NSPA giving a gold panning demonstration—look how intently the audience is watching! (photo: Peter Wallace)

DON'T SIT AROUND, BECOME A SITS SPEAKER

Scientists and Innovators in the Schools (SITS) is a program which seeks to help students of all ages become more excited about science, technology, engineering and mathematics. This goal is realized by providing teachers with volunteers who give classroom presentations, lead field trips, judge at science fairs, attend career days, and assist many other ways.

SITS has ongoing partnerships with many programs and

organizations including: Natural Sciences and Engineering Research Council Canada, Dalhousie University, Let's Talk Science, Discovery Centre, AGS, and National Research Council, as well as many other educational organizations.

In order for our program to be successful, we need your help to share the excitement that science offers. We are always looking for new volunteers who can lend a helping hand by giving presentations or helping teachers with science activities. Commitment is flexible as our program is designed so that volunteers can accept or decline requests as often as they like. To become a SITS volunteer, simply fill out a volunteer profile form (available at <http://atlanticsciencelinks.dal.ca>) and return it to our office via fax or mail. You will be part of an exciting program which provides role models and helps and shape students' perceptions of careers in science and technology. For more information, visit our website, e-mail sits@dal.ca, or call (902) 494-2831 in Metro Halifax, or 1-800-565-SITS in all other regions of Nova Scotia.

Submitted by Jennifer Bates, on behalf of SITS
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LOOKING FOR SOME GOOD READING?

AGS members might be interested in two recently published books. "William Edmond Logan (1798-1875), Knighted Canadian Geologist" is an anthology compiled and published by C. Gordon Winder, University of Western Ontario. Winder has devoted considerable time and effort to researching Logan, and has done much to put him forward to the public. In addition to many of Winder's own articles on Logan, the anthology reproduces some rare, out-of-print gems such as Robert Bell's 28-page charming 1907 write-up about his hero Logan (Logan hired Bell, in the 1850s, who then went on to put in a half century of service with the Geological Survey of Canada). The softcover edition costs \$22.50 plus shipping and handling, and is available from Trafford On-Demand Publishing at <http://www.trafford.com/robots/04-0855.html>

"Paddling the Boreal Forest: Rediscovering A.P. Low" is part biography of A.P. Low and part modern retracing of a canoe route Low completed during one of his arduous field seasons in Quebec and Labrador in the 1880s. A great "explorer-geologist" of the Geological Survey of Canada, Lowe did ground-breaking work in northern Quebec and Labrador in the 1880s (during which he discovered the vast iron ore deposits of the Labrador Trough). Low's book "The Cruise of the Neptune, 1903-1904" is one of the finest accounts of Arctic exploration ever written by a Canadian. The authors, Max Finkelstein and Jim Stone, both top-notch canoeists, found out why Low is Canada's original "Iron Man". The softcover edition costs \$26.95 and is published by Natural Heritage Books <http://www.naturalheritagebooks.com>

REGIONAL NEWS AND UPDATES

FUNDY GEOLOGICAL MUSEUM

On July 2nd, Museum staff and volunteers greeted our 250,000th visitor: Denise Charpentier of Dixville, Quebec. This event helped launch our 12th summer season since opening in 1993.

After a lull over the past two summers, our Elderhostel Geological Safari was well attended this year with 27 individuals participating in both sessions. This activity continues to help the museum develop partnerships throughout the area. This season the safari began in Halifax County, with a trip to Peggy's Cove and a tour of the Ovens. The weary travellers then arrived in Parrsboro to begin a week of exploration and sampling local cuisine.

As described earlier in this newsletter, museum staff helped organize the 40th Annual Gem and Mineral Show in August. Over 2700 people attended the three-day event, which was officially dedicated to the memory of Marilyn Smith. If you would like to participate next year please contact Carol Corbett, who is the coordinator for the 2006 event.

The Marilyn Smith Internship (formerly called the Abraham Gesner Internship) was awarded to Colin Davis, a grade 12 graduating student from the Parrsboro District High School. Worth \$2000, the internship is awarded annually to a Parrsboro High grade 11 or 12 student who has demonstrated an interest in pursuing studies in earth science or science. It provides the recipient with a two-month placement in the fossil preparation laboratory of the museum, or with the museum programming group. Funding is through the FGM operating budget and an education fund that has been established in Marilyn's memory to support programming activities. Anyone wishing to contribute to this fund can contact either Ken Adams or Rose MacAloney for further information.

The preparation of fossil material collected during Prosauropod Dinosaur Dig 2004 continued throughout the summer. Financial assistance for this activity was obtained from Heritage Canada, through the Young Canada Works in Heritage Institutions Program. Further funding was obtained from the NS Office of Economic Development and from Human Resources and Skills Development Canada. Four students assisted Lab Manager Kathy Goodwin with fossil preparation and public programming. This work can be followed on the Project Prosauropod website at <http://museum.gov.ns.ca/fgm/lab/lab.html>

The publication of the new Geological Highway Map has been very well received. This invaluable resource continues to be a "must buy" for many of our visitors.

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ACADIA UNIVERSITY

The Fall term is now well underway, after a busy summer that brought a number of major changes to the Geology Department at Acadia. At the end of June, Dr. Barry Cameron retired after teaching at Acadia for 25 years. However, he is still teaching on a part-time basis (micropaleontology) and attempting to consolidate thousands of trace fossils into a manageable collection. Dr. Alan Macdonald also retired, after teaching on a part-time basis more or less continuously for the past 25 years. Dr. Peir Pufahl joined the department in July to take over a combination of Barry's and Alan's teaching duties. Peir, his wife Christa, and son Callum seem to have settled well into life in Wolfville, after four years at Queen's University where Peir was doing post-doctoral research on cool water carbonates with Noel James. Both Peir and Christa have MSc degrees in geology from Lakehead University, and Peir did a PhD at UBC on phosphate deposits in Jordan. He has already developed a research focus on iron formations and phosphate deposits, with a graduate student started (see below).

During the summer, the department also underwent a major clean-up, during which 35 years of accumulated "treasures" in the equipment room were swept out to allow us to expand our main teaching classroom from a "30-seater" to a "50-seater". We lost the environmental science students, who moved to the classy K.C. Irving Environmental Science Centre, but we gained the Dean of Pure and Applied Science, who moved with his support staff into the former environmental science space. Living so closely with geoscientists is bound to have a positive effect on the Dean, a biologist whose research focuses on stress levels in fish! We are not sure yet about the effect that the Dean will impart to the Geology department.

Acadia University has instituted a category of adjunct professors, in addition to honorary research associates. Both Dr. Sonya Dehler (GSC Atlantic) and Dr. Chris White (NSDNR) were nominated over the summer, and their appointments were approved by the university in September.

The Fletcher Geology Club has already been active this term. They have hosted a barbecue with free food in mid-September to welcome everyone back to the department, and have organized a white-water rafting trip on the Shubenacadie River. They are currently in the midst of preparing for the annual trip to the Atlantic Universities Geological Conference, this year in St. John's. They are feeling relieved that they are not the hosts, as they were last year!

The year looks busy in terms of visiting speakers and other special events—anyone interested in attending such events at Acadia should periodically check out the website at <http://ace.acadiau.ca/science/geol/coming.htm>.

We welcomed two new graduate students to the department over the summer. Gleb Bukharin from the University of Moscow is working with Nancy Van Wagoner on volcanic rocks in the Waweig area of southwestern New Brunswick. Gabe Nelson from the University of Wisconsin is working with Peir Pufahl on iron formations in Wisconsin. Over the summer, **Robin Black** finished his MSc thesis on the pre-Mesozoic geology of Grand Manan Island, supervised by Sandra Barr, and **Cheryl Reid**, working with Rob Raeside, completed her MSc thesis on metamorphism around the Barrington Passage Pluton in southwestern Nova Scotia. Six graduate students are continuing. **Amanda Blackmore**, from the University of Guelph, is doing a joint Acadia-COGS MSc program with Ian Spooner on the hydrogeology of the Annapolis Valley, focusing on aquifer vulnerability. **Brent Lennox** from the University of Toronto is also working with Ian Spooner on Late Holocene climate change in the Maritimes. **José Texidor-Carlsson** is working with Sandra Barr and Cliff Stanley on the metallogeny of the Caledonian Highlands in southern New Brunswick. **Lori Cook** is in the process of writing up her work on the East Point magnetic anomaly in the Gulf of St. Lawrence west of Cape Breton Island. Lori is co-supervised by Sandra Barr and adjunct professor Sonya Dehler (GSC Atlantic). **Tansy O'Connor-Parsons** is in Australia, where we hope she is writing up her thesis on the litho-geochemistry of the Golden Mile gold mine, Kalgoorlie, Western Australia. **Andrea Locke**, who is working in Newfoundland, is planning to finish her thesis on glacial stratigraphy and till geochemical dispersion controls associated with the Brazil Lake Pegmatite, Yarmouth County, Nova Scotia. Andrea is co-supervised by Ian Spooner and Cliff Stanley.

BSc Honours theses in geology this year are listed below in alphabetical order by student name:

David Lowe - *Stratigraphy, depositional setting and volcanism of the Letete Formation, southwestern New Brunswick* (Supervisor: Nancy Van Wagoner)

Ryan Toole - *Petrographic and chemical variations through the Goldenville and Halifax formations, Bear River, High Head, and Broad River sections, southwestern Nova Scotia* (Supervisor: Sandra Barr)

Heather Wolczanski - *The Wolves Islands - a missing link in southern New Brunswick geology* (Supervisor: Sandra Barr)

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UNIVERSITY OF NEW BRUNSWICK

This past summer we had quite a few M.Sc. And Ph.D. graduates. **Shellie-Ann Jobe** defended her M.Sc. thesis entitled “Structural geology and Pb-Zn mineralization, northeastern Cornwallis Island, Nunavut”, which was supervised by Joe White. Bruce Broster supervised M.Sc. student **Annie Daigle**, who defended her thesis on “Stratigraphy and three-dimensional architecture of surficial sediments at Fredericton, NB”. Ph.D. student **Erin Walton**, supervised by John Spray, defended her thesis on “Analytical electron microscopy of shock effects in Martian shergottites” and has gone on to do an NSERC-funded post-doc at the University of Alberta. **Larry Amskold** defended his M.Sc. thesis entitled “Variation of redox zonation along an infiltration pathway in a river-recharged aquifer, Fredericton, New Brunswick”; the work was supervised by Tom Al. Lastly, **Jim Walker** (NB DNR-Minerals) completed his Ph.D. on the “Petrogenesis and tectonic setting of Devonian volcanic and related rocks and their control on mineralisation at the Shingle Gulch Pb-Zn-Cu-Ag deposit, northwest New Brunswick” under Nick Susak’s supervision. Jim was our first part time Ph.D in Geology.

We are looking forward to Cliff Shaw returning later this month from Germany where his research has been supported by the prestigious Humboldt Award for 6 months. He was working with Don Dingwell (UNB Adjunct Prof.) in Munich doing experimental petrology and working on xenoliths in the West Eifel volcanic system (as well as drinking “GUT” beer).

Adrian Park and Dave Keighley, together with Clint St. Peter at the NBDNR, have been working in the Moncton Basin, developing new stratigraphic and structural models for the basin. The work is funded by NBDNR, a NSERC Collaborative Research and Development Grant, Petroleum Research Atlantic Canada, and Corridor Natural Resources Inc.

Tom Al received a NSERC Strategic Grant (\$160,000/yr for 3 years) together with collaborators Ulrich Mayer (UBC), John Cherry and Beth Parker (U. Waterloo), Bruce Balcom and Essam Hussein (UNB). The grant, sponsored by Ontario Power Generation, will fund four Ph.D. projects to develop methodologies for the characterization of contaminant diffusion within sedimentary rocks and rock-water chemical interactions. The researchers will help develop the scientific foundation for environmental and safety assessments of long-term radioactive waste disposal facilities.

In addition to helping organize and present at the NB EdGeo Workshop, Dave Lentz was kept busy this summer with presentations at the United Nations Uranium 2005 conference in Vienna, the ECROFI fluid inclusion conference in Siena, Italy, and the SGA (Society for Geology Applied to Mineral Deposits) conference in Beijing. Early this fall, Dave was off again presenting an invited keynote talk on felsic dyke systems at the Argentinian Geological Congress in Buenos Aires, Argentina.



Participants in the UNB SEG student chapter field trip standing atop Mount Pleasant. (photo: Dave Lentz)

The UNB student chapter of the Society of Economic Geologists held a field trip on September 25th to see intrusion-related deposits of southern New Brunswick. The featured areas included the W-Mo-Sn-Zn-In deposits of Mount Pleasant and the Clarence Stream gold property. The co-organizers of this trip were S. McClenaghan (UNB), K. Thorne (NBDNR-GSB), and J. Lafontaine (UNB). Special thanks also go to Adex Minerals Corp. and Freewest Resources Inc. The annual geology 1st year “fun field trip” was also run by Bruce Broster and David Lentz.

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NOVA SCOTIA MUSEUM OF NATURAL HISTORY

The highly successful talk series “Beyond the Last Billion Years” continues during the 2005-2006 season. The talks are sponsored by the Nova Scotia Museum, the Nova Scotia Museum of Natural History, and the AGS. They are free of charge, but food bank donations are appreciated and are collected at the door. All talks are held in the auditorium at the Nova Scotia Museum of Natural History, 1747 Summer Street, Halifax. Please call 424-3563 for more information or visit <http://museum.gov.ns.ca>. The next two upcoming talks are described below.

Wednesday, October 19: “Dreadnoughts of the Cretaceous: new research on the armoured dinosaurs of Alberta”, Matt Vickaryous, PhD. Candidate, Dalhousie University.

The badlands of southern Alberta have produced some of the most famous dinosaurs in the world, including Albertosaurus, Tyrannosaurus, Troodon, Styracosaurus and the duck-billed hadrosaurids. Join Matt Vickaryous as he introduces us to the lesser-known but equally impressive ankylosaurs, which are armoured, tank-like contemporaries of T. rex. Matt's research gives us exciting insights into what they ate and how they lived.

Wednesday, November 16: “The Grand Canyon: 2.5 Billion Years in 8 Days”, Elisabeth Kosters, Acadia University.

Elisabeth Kosters shares her photography of the geology and scenery of the Grand Canyon which she experienced during a recent one-week rafting trip. The talk will be supplemented with geological background information from geologists W.H. Hamblin and G. Billingsley.

Deborah Skilliter
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UPCOMING EVENTS

National Science & Technology Week 2005 Friday, October 14th to Sunday, October 23rd

National Science and Technology Week (2005) is in its 16th year. This year it runs from Friday October 14th to Sunday October 23rd with events planned across Canada. NSTW is a ten-day celebration of science, engineering, and technology. Its goal is to help create an innovative culture that values entrepreneurship, fosters scientific research, aggressively applies new technologies, and celebrates national science, engineering, and technology achievements.

Events across the country will encourage Canadians of all ages to discover new frontiers, learn something different, and appreciate the contribution that science and technology make to our economy and our way of life.

This year we will be trying to engage university/industry/government science and engineering professional volunteers from across Canada to participate in NSTW05. We also plan to enhance the NSTW05 website capabilities to provide concept ideas, archive past successes (photographs, commentary from various places), and advertise organized upcoming events.

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Developing International Geoarchaeology 2005 Conference

On behalf of the Developing International Geoarchaeology 2005 organizing committee, I cordially invite you to the DIG 2005 meeting in Saint John, New Brunswick, Canada from October 21-23, 2005. DIG 2005 is aimed at promoting and

encouraging the application of the geological sciences to archaeological problems. Our goal is to bring together a wide variety of international researchers, practitioners and students in this interdisciplinary field. Oral and poster presentations in English and French have been accepted on many different aspects of geoarchaeology and have been grouped into four themed sessions: Coastal and Underwater Geoarchaeology with an introduction by Dr. Eduard Reinhardt; Landscape Evolution with an introduction by Dr. Christopher Hill; Artifact Provenance Studies with an introduction by Dr. George "Rip" Rapp; and Geophysical Surveying and Geoarchaeology with an introduction by Dr. Dean Goodman.

We have planned some special events throughout the conference beginning Friday evening with an opening reception hosted by the New Brunswick Museum, which will be held in The Hall of Great Whales. A conference reception and banquet will be held at the Union Club Saturday evening with Dr. Charles French (department head and senior lecturer in archaeological science, Department of Archaeology; and Director of the Charles McBurney Geoarchaeology Laboratory, University of Cambridge) as the keynote speaker. For Sunday, registrants have a choice of attending one of two half-day roundtable discussions or attending an all-day field trip that will consist of a bus trip from Saint John to St. Andrews and back with a number of people giving short talks along the way. Time will be set aside in St. Andrews so that people can explore the shops and sights.

Visit our DIG 2005 website at www.dig2005.com to find out more information about the conference. The site is constantly updated, so visit it often to watch the conference develop.

Pam Dickinson
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AGS 32nd Colloquium and Annual General Meeting

CALL FOR PROGRAM THEMES **Current Research in the Atlantic Provinces**

Planning is under way for the 32nd AGS Colloquium and Annual General Meeting. All AGS members are encouraged to plan to attend the event. Proposals for special sessions and/or workshops should be sent, as soon as possible, to Rob Raeside at rob.raeside@acadiau.ca

Calendar of Events

- October 14-23, 2005 National Science & Technology Week contact David Lentz (Dlantz@unb.ca) or refer to the website (http://www.nrcan-rncan.gc.ca/nstw-snst/intro_e.html)
- October 21-23, 2005 Developing International Geoarchaeology 2005 Saint John, New Brunswick (<http://www.dig2005.com/>)
- October 28-30, 2005 55th Annual Atlantic Universities Geological Conference, St. John's, Newfoundland and Labrador. Email: augc2005@mun.ca
- February 3-4, 2006 AGS Colloquium and Annual General Meeting, The Old Orchard Inn Wolfville, Nova Scotia Rob.Raeside@acadiau.ca
- May 14-17, 2006 GAC/MAC 2006 - Planet Earth in Montreal, University of Quebec in Montreal (UQAM) Montreal Quebec (<http://www.er.uqam.ca/nobel/gacmac/welcome.html>)
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