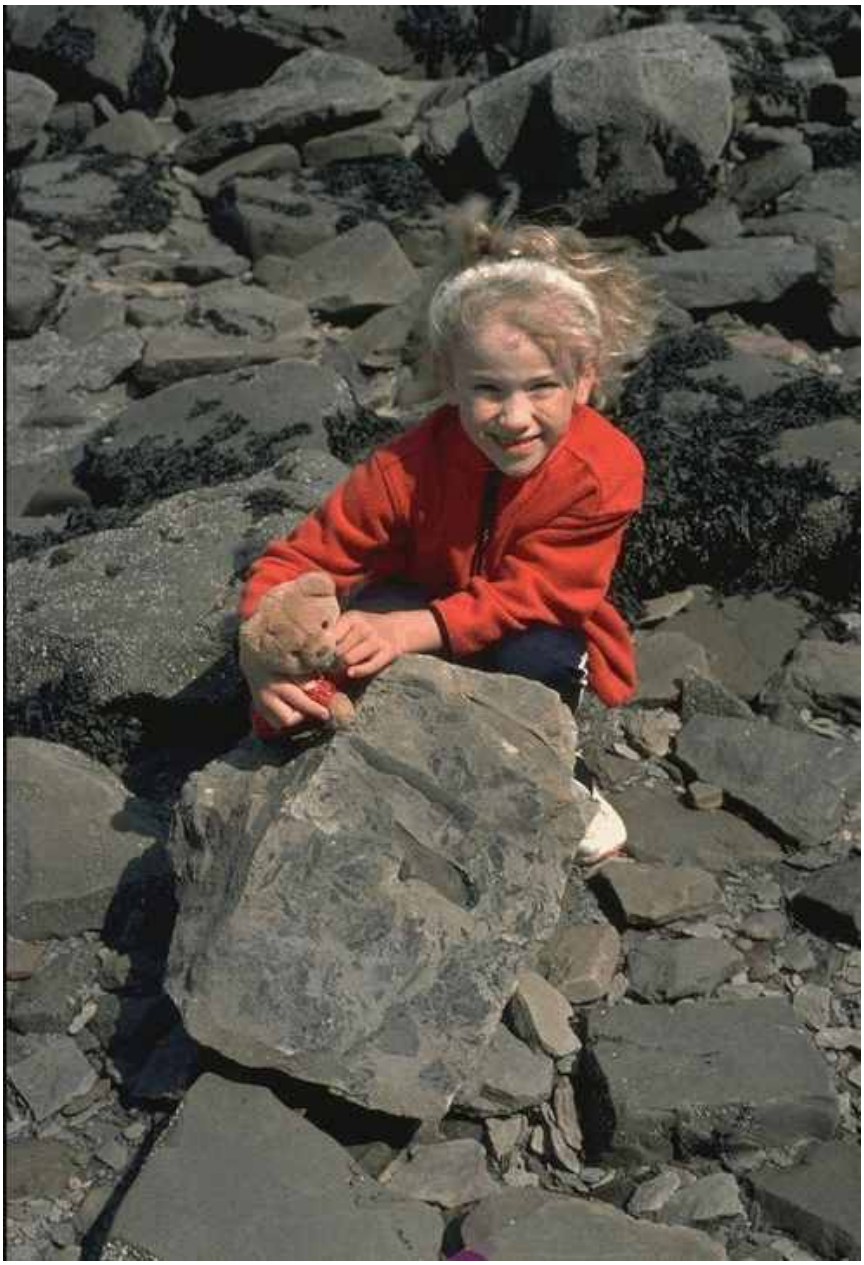
ATLANTIC GEOSCIENCE SOCIETY

NEWSLETTER

Volume 35, Number 3, June 2006



A burgeoning geologist shares her knowledge of fossils with a close friend (*copyright Rob Fensome*).

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The deadline for submissions to the next issue is October 3rd, 2006. Please send articles or feedback to:

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Production of this newsletter is by Nelly Koziel. Submissions were solicited and compiled by Chris White and Mike MacDonald.

PRESIDENT'S FORUM

Greetings from Wolfville. It has been 4 months since Dave Keighley passed the reins over to me; thanks Dave for the much appreciated mentorship. Council has been busy this spring. We have had two meetings so far, and near the top of the agenda was the administration of the 2007 Annual General Meeting which will be held at the Beausejour Hotel in Moncton on February 2-4. In particular I would ask the membership to consider organizing a special session or nominating a speaker for the banquet. Feedback can be directed to Reg Wilson or Mike Parkhill. The 2006 meeting in Wolfville was a financial success (thanks again to Rob Raeside and his crew in Wolfville) that added significantly to our society's coffers; but at what cost? As you may recall we ran three concurrent sessions on both Friday and Saturday and accepted over 40 poster presentations. Was this too much? I welcome all comments, both negative and positive!

Mike Parsons (VP), Rob Raeside (Secretary), and I have been meeting informally with council and committee members to get a better sense as to where the society should be heading in the next few years. In particular we are interested in exploring strategies to stabilize our cash flow, especially in these days of very low interest income. Fund raising was one possibility, increasing membership is another; what are your thoughts? The success of Halifax 2005 (congratulations again Scott Swinden and the local organizing committee!) has provided the AGS with a significant cash influx and council has received several suggestions for ways to put this to good use. Council has already approved funding to help with the conversion of Atlantic Geology to an electronic format and to convert back issues, but we are still listening for other suggestions.

Finally, the strength of any society lies in its membership. I would ask that all members lobby within their areas to augment membership. It would appear to me that we are particularly under-represented in the environmental geoscience sector. Let's see what we can do!

Have a great summer!

Ian Spooner
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ATLANTIC GEOLOGY JOINS THE ELECTRONIC AGE

Major changes are in the process of being implemented to bring *Atlantic Geology* fully into the electronic world, in collaboration with the Electronic Text Centre (ETC) at the University of New Brunswick, Fredericton. The ETC is in the process of setting up *Atlantic Geology* in the Open Journal System open source software and encoding article files in detailed XML format. The presentation of articles will be in PDF and XHTML. ETC is also digitizing the entire back catalogue of the journal from volume 1, 1965 to the present. Volumes 38-42 (the current volume) will be available in both PDF and XHTML, and the rest of the back catalogue will be presented in PDF, with all articles searchable in full text. We anticipate that the system will become available to subscribers during the Fall of 2006.

The current volume of the journal (v. 42) is the last volume that will be provided to subscribers on paper at the current rate. Beginning with v. 43 (2007), the journal will be available electronically to subscribers at a price to be announced later. Those subscribers who wish to continue to receive paper copies of the journal will be able to do so at the real cost of producing those paper copies, plus postage and handling.

To move to the electronic version of the journal, we will require a valid e-mail address from each subscriber by September 1, 2006. Please send an e-mail with your name to James Kerr at jkerr@unb.ca. He will send you a password and login id, and will inform you when the site is up and running. You will also receive a letter reminding you of the pending changes when you receive your next issue of the journal (v. 42, #1, now at the printer).

Other related effects of the new system will include electronic manuscript submission and review, as well as subscription database management. More details will be provided as the system develops (and the editors and production manager get it figured out!). In the meantime - we encourage manuscript submissions, either in the traditional paper mode or as e-mail attachments (file size below 5 Mb). Now is the time to finish up that almost-completed ground-breaking paper and send it in!

In addition to the issue now being printed, we have a large number of papers for another special issue on "Environmental Geoscience Research in the Atlantic Region", being edited by Don Fox, Mike Parsons, and Marcos Zentilli. Watch for it later this year!

Sandra M. Barr
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REGIONAL NEWS AND UPDATES

ACADIA UNIVERSITY

Yet another academic year flew past, and we are now in the midst of a busy summer (anyone who thinks that university folks have their summers "off" needs to look at our summer schedules!).

Probably the biggest news for students since the last newsletter is Acadia's Spring Convocation. On Convocation Day (May 16th), Lori Cook received her MSc degree in Geology, Ryan Toole and Heather Wolczanski received BSc Honours degrees, David Lowe received conversion of his 2005 BSc degree to Honours status, and 11 students received regular BSc degrees. All have now moved on to the next stages of their lives, and we wish them the best of luck and good fortune.

After receiving her degree on the morning of the 16th, Heather Wolczanski flew off to the GAC-MAC meeting in Montreal, where on Tuesday, May 17th, she presented a poster entitled "Petrology and regional tectonic implications of The Wolves Islands, offshore southwestern New Brunswick", based on her BSc honours thesis project. The poster was awarded the third place Jerome Rémick award - the second year in a row that a student supervised by Sandra Barr has won that award. Heather also had received an award from the Mineralogical Association of Canada to assist her to travel to Montreal for the conference, and was also the recipient of an NSERC PGSM award for graduate studies in the coming year. To top it off, she obtained a summer job in Stavanger, Norway, where she writes that she is enjoying the Grenvillian gneisses. Well done, Heather!

Two Acadia MSc students, Aaron Satkoski and Gabe Nelson, were recipients of research awards from the Geological Society of America to support their thesis projects. Aaron's thesis project, supervised by Sandra Barr, is an investigation of the chemical and Sm-Nd isotopic compositions of Precambrian and Cambrian sedimentary rocks in the Caledonian Highlands of southern New Brunswick. Gabe's thesis project, supervised by Peir Pufahl, is a study of the environmental constraints on the deposition of phosphorite rocks in the Precambrian on northern Michigan. We were pleased that both of our applicants to this highly competitive awards programme were successful.

AGS president, Ian Spooner also was successful as a co-applicant on a National Science Foundation (NSF) grant led by Ben Edwards (Dickinson College, PA) and Ian Skilling (University of Pittsburg, PA). The team received $155,745 to conduct volcanology and paleoclimatology research in British Columbia. Ian, along with his co-applicants and other researchers will be working in the Dease Lake area where Ian has been conducting research since 1990. His part of the project will focus on better constraining the timing of ancient glaciations, data required to better understand past climate dynamics. The research team plans to spend six weeks per summer for the next two summers in the field area.

We are pleased to announce that Dr. Tim Webster, a research scientist with the Applied Geomatics Research Group, Middleton campus of the Centre of Geographic Sciences (CoGS), was appointed an adjunct professor at Acadia in June. Tim did his MSc degree at Acadia on "Remote sensing and geographic information system analysis of the St. Marys Basin and surrounding areas, central Nova Scotia" in 1996. Subsequently he completed a PhD degree at Dalhousie University, both degrees being done while he maintained his position at CoGS. Tim has been very helpful in assisting in the supervision of theses at Acadia in the past, and we welcome him to this more formal position with the Department and the University.

For the past 6 years, visiting scientists from Britain and Ireland under the supervision of Brian Williams (University of Aberdeen) have been investigating the geology of the Triassic rocks of the Fundy Group, often based at Acadia. This summer post-doc Sophie Leleu (University of Aberdeen) and a

team of four others from Manchester and University College Dublin are examining the Wolfville Formation with a view to understanding reservoir characteristics, correlations to Morocco and Ireland, and the source of the sandstone using Pb isotopes.

Have a great summer, everyone! Let's hope that it "drags" on and on and.....

Sandra Barr
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SAINT MARY'S UNIVERSITY

Despite rumbles of ongoing renovation in the Science building at SMU, the Geology Department is running strong this summer. Georgia Pe-Piper has found a safe haven at the GSC-Atlantic to conduct her summer research with a web of students distributed here and there. Of course, only she could possibly orchestrate such an operation. While Georgia is still active in the field of igneous petrology, with ongoing Cobequid and Agean projects, she has become increasingly active in the subject of sedimentary provenance and reservoir rock diagenesis, with ongoing projects on Cretaceous rocks of eastern Canada.

Georgia is supervising the research of MSc students Kathleen Gould and Sarah Bowman on the diagenesis of Cretaceous sedimentary rocks in the Sable Basin of offshore Nova Scotia, and of MSc student Nikolaos Tsoukalas on the geodynamic evolution of the Late Miocene igneous rocks of Kos (Greece). Curtis McCall recently completed his MSc thesis on submarine slumps of the Grand Banks with Georgia in co-supervision with David Piper of the GSC-Atlantic. Curtis is now working as a petroleum geologist in Calgary.

Victor Owen, Jarda Dostal and Randolph Corney have found another way of avoiding the dust for a while by crossing the Pacific Ocean into Mongolia in the context of a Canadian International Development Agency (CIDA) project in Mongolia (Education for Environmental Transition: Mining in Mongolia). While not rambling in the Mongolian steppes, Victor Owen continues to investigate the petrology of crystalline rocks in the eastern Grenville Province, and to use geochemical data to characterize and interpret archaeological ceramics and glass artifacts.

Andrew MacRae and Pierre Jutras chose to be buried in dust this summer, semi-sheltered in the eye of the renovation hurricane. Andrew is finishing projects on the palynology and tectonostratigraphy of Cretaceous rocks on Ellesmere Island, along with his ongoing research on ammonites as paleoenvironmental and biostratigraphic indicators, and on the petroleum geology of the Scotian Basin.

Pierre Jutras is still working in eastern Canada on the tectonostratigraphy of Viséan rocks in marginal areas of the Windsor Sea, along with side projects on Ordovician paleoenvironments, diagenetic siderite, upper Paleozoic mafic dykes, and the geochemistry of phreatic calcretes. Pierre is still supervising the research of MSc student Jason McLeod on the paleogeographic and tectonostratigraphic evolution of the Cumberland Basin of New Brunswick and Nova Scotia during the late Mississippian. Adam MacDonald recently completed his MSc thesis on the Cenozoic seismic stratigraphy of offshore Nova Scotia with Pierre in collaboration with David Piper of the GSC-Atlantic. Adam is now working as a petroleum geologist in Calgary.

Finally, through our distress of seeing Jarda retiring this summer, lights of hope came in the realization that we might end-up seeing just as much of him as before. His NSERC was recently renewed for five years, and this new Professor Emeritus has apparently no plans to stop telling compelling geological stories. Jarda has ongoing projects on terrane accretions and arc volcanism in western Canada with PhD student Tony Barresi (Dal), on lamprophyres in Mexico with PhD student Alberto Orozco (Dal), on Archean Komatiites in Abitibi with MSc student James Suma-Momoh (SMU), and on upper Paleozoic igneous systems of the Sukhubaatar Province of Mongolia with MSc student Ahmed Ahmed (SMU). The university is presently in the process of offering a position to a tenure-track candidate for Jarda's replacement. As must be clear by now, in terms of research capacities, this "replacement" is in fact a simple addition.

Pierre Jutras
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UNIVERSITY OF NEW BRUNSWICK

There is quite a lot going on at UNB Gelogy these days. MSc student Jean-Christophe Nadeau, studying under the supervision of Dr. Karl Butler, completed his MSc thesis "Geophysical Imaging of a River Valley Aquifer" in December and is now working in the environmental consulting field in France. Michelle Boast completed her PhD on "The Metamorphic Aureole of the Sudbury Igneous Complex" with Dr. John Spray and has gone out to Calgary to look for work.

Most recently, Diana Loomer very successfully defended her MSc thesis on "Manganese Oxides Formed During In Situ Chemical Oxidation: The Potential For Mn And Trace Metal Mobilization Under Reducing Conditions" that was supervised by Dr. Tom Al.

This spring we had 4 great undergraduate theses completed and presented. Nesha Trenholm presented on "Volcanology of the Upper Cone of Rockeskyller Kopf, West Eifel Volcanic Field, Germany", which was supervised by Dr. Cliff Shaw. Devin Mohan studied "Gamma Ray Spectrometry of a Coarsing Upward Succession in Outcrop-Albert Formation (Moncton Basin), Sussex NB" under Dr. David Keighley's supervison. Craig Evans worked on "Glacial till clast dispersion for the Hayesville map area (NTS 21 J/10)" with Dr. Bruce Broster's help. Heather Campbell researched "The

formation of the glacial Lake Peace meltwater channel in northern Alberta during the retreat of the Laurentide ice sheet and the potential for aggregate resources" also under Dr. Bruce Broster's supervison.

The big news here is that as of July 1st, Prof. Bruce Broster will be taking over as Chairman for the UNB Geology Department for a 3 year term. Joe has stepped down after serving the faculty and staff for 9 (long) years, that was punctuated by a year in the UNB Research Office. Thanks Joe for all that very hard work herding us cats!

Dr. Karl Butler is on sabbatical for a year starting in July and has plans to spend the first half working down under with colleagues from the Department of Exploration Geophysics at Curtin University in Perth, and from Otago University in Dunedin New Zealand. Karl's PhD student Christian Dupuis is already in Australia collaborating with the group at Curtin on the development of seismic reflection and seismoelectric methods for mining and groundwater applications.

Dr. James Whitehead will begin a new assistant Professor position in science and technology at St. Thomas University on July 1st, but will be keeping close ties to his co-researchers here at UNB.

Dr. Allan Sharpe and UNB President Dr. John McLaughlin at our annual "Meet and Greet" (photo courtesy of David Lentz).

A large group of UNB geologists and geological engineers attended the Prospectors and Developers Association of Canada meeting this year held at the Toronto Trade and Convention Centre in March, 2006. Everyone enjoyed themselves and had the chance to speak with industry executives and geoscientists about prospective careers in geology. Highlights of the trip included Dr. Lentz's field trip to Mount Royal, Montreal and Dr. Broster's tour of the PDAC convention hall. UNB was well represented with 10 students and two professors (Dave and Bruce) attending. UNB hosted the popular "Meet and Greet" at the convention in the Royal Fairmont Hotel and many UNB alumni were on hand to hear Dr. Sharp, Dean of Science, and Dr. McLaughlin, UNB President, speak. Special thanks to UNB student geologists Kristy Beal and Wayne Maston for making this trip a huge success.

The Hale Trip this year went to Hawaii over the extended March break with Dr. Joe White helping with the organization. Approximately 10 students interested in volcanologic processes participated with support from the Hale fund and their own fundraising efforts.

Also, the graduate students and upper lever undergraduates were involved in a fun night of curling early this winter, as well as a memorable field trip in the early spring to Cape Breton Island.

David Lentz
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AGS-APICS SPEAKER TOUR

Do you know of a distinguished speaker who will be visiting (or residing in) the area between September and April? AGS Council is currently considering nominations for its Distinguished Speaker Tour (co-sponsored with APICS). Please pass on any nominations to Rob Raeside before mid-August. It would be helpful to provide an idea of the sort of topic the speaker might spout about, other speaking commitments s/he might have, and his/her availability.

Rob Raeside
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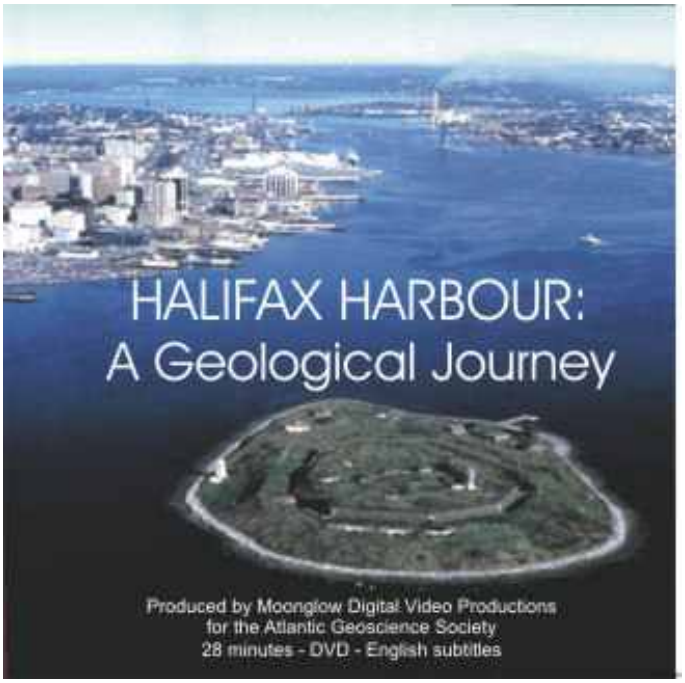
HALIFAX HARBOUR VIDEO NOW OFFICIALLY RELEASED

This February, attendees to the AGC 2006 Colloquium in Wolfville were treated to an abridged preview of the much-anticipated Halifax Harbour Video. Now, AGS Video Committee and Moonglow Digital Video Productions have completed and released "Halifax Harbour: A Geological Journey" to great acclaim. The idea for the video began with Gordon Fader a decade ago and much credit goes to him and AGS Video Committee Chair Graham Williams for the success of the project. Their persistence in fundraising secured financial support from the several sources including Canadian Geological Foundation, Canadian Society of Petroleum Geologists, EnCana Corporation, Exxon Mobil Canada, the Geological Survey of Canada, Halifax Port Authority and Halifax Regional Municipality, augmenting the AGS Video Committee funds.

In the video, narrator and host George Jordan teams up with teacher Heather Johnson and her students from Halifax

Independent School to find answers to their many questions on the Halifax Harbour. Through an impressive team of experts drawn from many fields the story of the harbour is told in it's geological, glacial, environmental and historical aspects.



Beginning with the bedrock geology, the story quickly moves on to glacial history and sea level variations before addressing some more modern questions involving contamination of harbour sediments and collapsed bridge footings, finally discussing the presence of features associated with the Halifax Explosion and a tunnel to Georges Island. Experts appearing in the video include Mike MacDonald and Ralph Stea from Nova Scotia Department of Natural Resources, Ann Miller (Acadia), author/historian Janet Kitz and John Shaw, Dale Buckley, Bob Miller and, of course, Gordon Fader from the Geological Survey of Canada. Other GSC contributors include Sonya Dehler, Dave Frobel, Bob Taylor, Phil Spencer and Eric Patton. The members of the AGS Video Committee are Graham Williams (Chair), Jennifer Bates, Gordon Fader, Dave Frobel and Bob Miller (all from GSC Atlantic) along with David Hopper (Nova Scotia Environment and Labour) and Peter Underwood (Nova Scotia Department of Natural Resources).

Congratulations go out to producer/director George Doucet and technical advisor/musical composer Gordon Fader as well as Graham Williams and the AGS Video Committee on the culmination of many years of effort. This video is an attractive educational resource for teachers, students and the generally curious, and it will be in great demand for some time. Through this effort, the AGS will reach a greater audience and raise the level of understanding of local geology among the general public. The video has already generated interest beyond the geoscience community, perhaps not surprisingly, as the harbour holds allure for tourists and local folk, seafarers and landlubbers. It is a confluence of geoscience, history, environment and trade, and is an example of the increasingly multidisciplinary nature of modern scientific work.

The 28-minute educational video is intended for a junior/high school audience but everyone will learn something new in watching this newest AGS product. The video can be purchased through the AGS website (http://ags.earthsciences.dal.ca/ags.php). The price for AGS members is $15.00 (add $2.50 for shipping).

Patrick Potter
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ALLUVIAL FANS 2007

The early days of alluvial fan studies concentrated on description of the processes and products on the spectacular fans of the Basin and Range area of the southwestern United States, so it was entirely fitting that the first international conference on alluvial fans should have been held in Death Valley, California, in 1995. The hosts for this meeting were Terry Blair and John MacPherson whose extensive knowledge of the sedimentology of the fans of the area and their recent review of the subject (Blair and MacPherson 1994) provided the basis for a stimulating field meeting. The contention that alluvial fans are distinct from rivers in both form and process was not embraced by all who attended the meeting, and the debate continues in the literature. Whatever the merits of the arguments, being able to discuss the issues in the field as well as in the conference room, restaurants, and bars for the duration of the meeting was certainly fruitful as well as enjoyable. It was also a reminder of the tremendous benefits of holding a conference that is focussed on a single overall topic and can bring together people with different relevant interests and expertise.

The badlands area of Almeria province in southern Spain is sufficiently similar to southwestern USA for many directors to have used it as a film set for "cowboy" movies. Mock-ups of "wild west" towns are tourist attractions, but for the geological tourist there are numerous Quaternary alluvial fans which made the village of Sorbas a great venue for the second fans meeting in 2003. Convened by Adrian Harvey of Liverpool with Anne Mather and Martin Stokes from Plymouth, UK, the Sorbas Alluvial Fans meeting had a charm to which any conference could aspire. The talks were held in the village cinema and community hall, the posters were arranged in the village square outside, and refreshments were provided in local cafes and restaurants. For many of the delegates, accommodation was at a Field Studies Centre nearby. It was all a far cry from a traditional conference centre venue, and an excellent informal meeting bringing together people with common interests.

The Death Valley and Sorbas meetings are a tough act to follow, but we are going to try to live up to them in June 2007

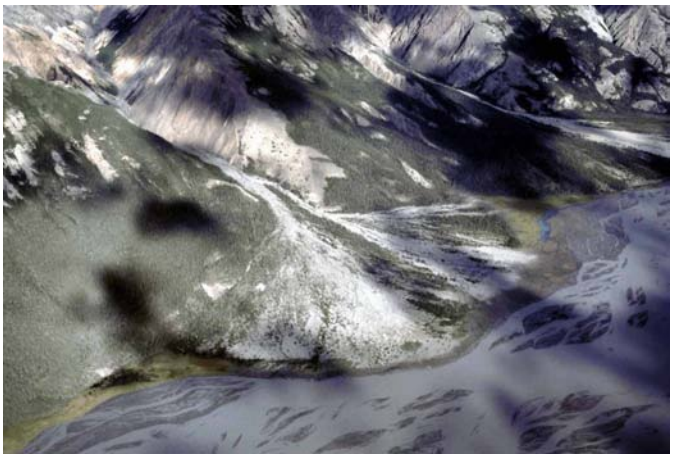
in Banff, Alberta. We are adopting the mixture of field workshop and conference by taking the opportunity to look at some of the alluvial fans in the Rocky Mountains that surround the conference venue. These fans have formed in quite different climatic and tectonic settings to those visited during the previous meetings, and issues such as land use and forestry on alluvial fan surfaces have greater prominence. A number of themes have been suggested for the meeting, covering aspects of both modern and ancient fan geomorphology and sedimentology. The "ancient" fan themes include the tectonic, climatic, and source bedrock controls on fan successions, reservoir potential, and the criteria for the recognition of alluvial fans in the stratigraphic record. The reconstruction of past climate through alluvial fan sediment records will link fan sedimentology to palaeoclimatology. For "modern" fans the suggested themes are concerned with paraglacial settings, land uses and hazards, groundwater resources, hydrology of alluvial fan deposits, stream networks and geomorphological characteristics of alluvial fan surfaces, including controls on alluvial fan morphology and depositional processes.

We are hoping to attract a broad spectrum of people beyond the field geomorphologists and sedimentologists who usually contribute to these meetings: those working on the numerical and analogue modelling of alluvial fan processes and products would be particularly welcome. It would also be good to have contributions from people working on closely allied sedimentary processes such as scree slopes, colluvial fans, fan-deltas (in both lacustrine and marine settings) and large river systems that develop fan-shaped patterns of deposits. Having suggested some themes, we would like to emphasize that contributions on any aspects of alluvial fans will be considered for inclusion as either an oral presentation or as a poster - we do not wish to restrict the scope. If we can recreate some of the spirit of open discussion and exchange of ideas across disciplines that characterized previous alluvial fan meetings then this should be a productive meeting.

Hopefully the meeting itself will be sufficient incentive to attract delegates, but there is also the added bonus of field trips to be held before, during, and after the conference. Prior to the conference, a four-day trip is planned from Vancouver to Banff including a variety of fan settings and climatic environments in southern British Columbia, and a three-day trip is planned in the Rocky Mountains, beginning at Calgary, Alberta, and ending at Banff. The latter trip will follow a loop to visit fans in the Kananaskis region and the Rocky Mountain Trench in southeastern British Columbia.

During the conference, two one-day field trips are being organized. The first will examine fans close to Banff while the second will venture further into the Continental Divide area and Yoho National Park. Stops on these trips have been selected to illustrate the variety of fan types and depositional processes that exist in the Rocky Mountains, as well as to show examples of forested fans and issues relating to land use and hazard engineering. Delegates will be traveling in spectacular mountain landscapes on these field days.

One field trip, nine days in duration, is also being planned to follow the conference. The destination is southwest Yukon and Kluane National Park. Kluane contains numerous examples of very active fans, many of which are fed by glaciers, as well as fans that are now inactive. The distance from Banff to Kluane and corresponding travel time are significant, so the option of flying vs. driving to Yukon is currently being investigated. Although the drive is very scenic, flying would reduce the trip length by two full days, to seven days in length.



Partially forested alluvial fan in the Slims River Valley, Kluane National Park, Yukon (photo courtesy of Philip Giles).

Finally, we want to encourage postgraduate students and younger postdoctoral researchers from around the world to attend the meeting and present their work, so there will be a number of grants available (in the form of reductions in the registration fees). Details of these and all other aspects of the meeting are available on the conference website http://husky1.stmarys.ca/~pgiles/AF2007/AlluvialFans2007.htm. The contact e-mail address is alluvialfans2007@smu.ca. The key dates to remember are: November 1, 2006 for preliminary presentation title, expressions of interest in the southern B.C. (Trip A) and Rocky Mountain (Trip B) pre-conference field trips, and deposit for the Yukon (Trip C) post-conference field trip; January 15, 2007 for field trip A and B deposits; March 1, 2007, the registration deadline; and, of course, June 18-22, 2007, the week of the conference itself.

Philip Giles, Department of Geography, Saint Mary's University

Gary Nichols, Department of Geology, Royal Holloway, University of London

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EdGEO IN 2006

The Nova Scotia EdGEO Workshop Committee was ready for a shake-up. So, here's the new plan: the program will now be distributed over the year rather than having a single, multi-day

workshop in August, as traditionally has been the case. This year we will start with two one-day field trips in August. They will include hands-on activities and interactive sessions that will require participants to get 'involved' with the geology. Next, EdGEO will deliver sessions at the various provincial education conferences happening in Halifax and Truro on Friday October 27. The Committee also wants to develop a stronger link with university education programs and hopes to offer an inaugural workshop in the fall or winter to B.Ed. students.

Here is some information on the August field trips. Field Trip #1, "The Geologic Landscape of the Halifax Regional Municipality", on Wednesday, August 16 will be led by Terry Goodwin (Nova Scotia Department of Natural Resources). The tour will focus on environmental geology and economic resources around HRM and will highlight the connections to our geologic past. Field Trip #2, "Journey Through Time to the Minas Basin", will take place Thursday, August 17. Co-leaders Rob Fensome and Graham Williams (Geological Survey of Canada - Atlantic) will introduce participants to the fascinating geological evolution of our province as displayed in the rock formations of the Minas Basin shore. Registrants are encouraged to attend both field trips for a fully integrated geological story.

A registration form for the field trips is attached to this newsletter. Please share it widely amongst the educators in your life.

Jennifer Bates
Chair, NS EdGEO Workshop Committee
jbates@nrcan.gc.ca

AGS FINANCIAL STATEMENT

Annual Report of Financial Statements, year ending 31 December 2005.

Attached are the financial statements as discussed at the Annual Meeting in Wolfville in February. It was not possible to accept these at the annual meeting and it was agreed to publish them for final consideration. Accordingly AGS members are invited to consider the Report of Financial Statements and indicate whether you accept them by responding thus to vice-president Mike Parsons (miparson@nrcan.gc.ca) before 21 August 2006.

The Atlantic Geoscience Society's 13th annual workshop

EdGEO Rocks !

A special format: **Two 1-day field trips to study the geology of Nova Scotia** departing from the Bedford Institute of Oceanography in Dartmouth. Registrants are encouraged to attend both field trips for a fully integrated geological story.

> August 16: The Geologic Landscape of the Halifax Regional Municipality
> August 17: Journey Through Time to the Minas Basin

You Will Receive ..
> Field trip guide book
> CDROM of hands-on activities and materials
> Pamphlets, booklets & posters
> 8 or 16 hours of professional development

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

Jennifer Bates
Chairperson, NS EdGEO Workshop Committee
Geological Survey of Canada (Atlantic)
Bedford Institute of Oceanography
P.O. Box 1006, Dartmouth, NS B2Y 4A2
Ph: 902-426-4386
FAX: 902-426-4848
E-mail: jbates@nrcan.gc.ca

"Super workshop ... short practical demonstrations"
"Staff/participant ratio is perfect"
" .. 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"
"I am overwhelmed with the excellence"
Teachers' comments on previous workshops

Workshop endorsed by the Nova Scotia Association of Science Teachers, and the Nova Scotia Department of Education, and evaluated as a valid Professional Development opportunity for teachers at the Junior High & High School levels within the Halifax Regional School Board.

Name: _____
_____
___

School: _____
_____

School address: _____

Current grade level: _____

Summer mailing address: _____

_____

School phone: _____

Summer phone: _____

E-mail: _____

Please indicate your choice. Fees includes lunch & breaks. If raining, sessions will be indoors.

Aug 16: ____ $35 ____ $70*
Aug 17: ____ $35 ____ $70*
Aug 16 & 17: ____ $60 ____ $95*

* includes one copy of book "The Last Billion Years" and DVD "Halifax Harbour - A Geological Journey"

ATLANTIC GEOSCIENCE SOCIETY
LA SOCIÉTÉ GÉOSCIENTIFIQUE DE L´ATLANTIQUE

ATLANTIC GEOSCIENCE SOCIETY FINANCIAL STATEMENTS FOR THE YEAR ENDING 31 DECEMBER, 2005

In accordance with the bylaws of the Atlantic Geoscience Society, I have compiled these financial statements from the records of the Society, the AGS Video Committee, the AGS Education Committee, the AGS EdGeo Workshop Committee and "Atlantic Geology" Journal. The Financial Report has been examined by the Financial Reviewers who were appointed at the 2005 Annual General Meeting.

An Audit has not been performed. The attached financial statements have not been verified or examined by an accountant.

Ken Howells
Treasurer

Patrick Ryall
Reviewer

Robert Raeside
Reviewer

TREASURER'S COMMENTS

Membership revenue increased again in 2005.Revenue from publications sales increased substantially. The annual Colloquium/Symposium produced a deficit of $1,010.16 and translates into a subsidy of about $7.00 per attendee. In 2005 AGS was operated at a net loss of $12,321.33 as a result of substantial support given to the NS Highway Map Project ($5,828.20); the Fundy Poster and Paintings Project ($3,240.00); the NB EdGeo Workshop ($500); AUGC ($500); the NS Gem and Mineral Show ($500) and the Cumberland Geological Society ($500) and the annual support for Atlantic Geology ($3045). Revenue will accrue to the Society from the sale of NS Highway Maps and royalties. All this worthy support by AGS was realized by drawing on AGS investments to the amount of $12,019.53.

The Advance-Receivable Wallace Loan (to produce AGS Publication#14) was in continuous surplus mode and has been retired. The Atlantic Geology Loan Fund Balance, initiated in 1992, has also been retired as it has long since been spent (even if interest earned is included) and support now comes directly from AGS funds. The -$277.21 in the AGS Education Committee income account results from payment in 2005 for both 2004 and 2005 publication sales. The AGS Education Committee has "donated" $722 to AGS from sales at the GAC/MAC 2005 Meeting. AGS investments are presently locked in for one year at an interest rate of 3.44%.

Atlantic Geoscience Society
Income Statement 01-01-05 to 31-12-05

REVENUE		
MEMBERSHIPS REVENUE		
Memberships - Regular	1,040.00	
Memberships - Student	440.00	
TOTAL MEMBERSHIP REVENUE	1,480.00	
PUBLICATIONS REVENUE		
Maps	462.00	
Special Publications	478.07	
Videos	35.00	
TOTAL PUBLICATIONS REVENUE	975.07	
OTHER INCOME		
Bank Interest	4.41	
Investment Income	810.75	
Copyright/Royalties	194.94	
Colloquium/Symposium Income	6,602.00	
AGS Education Committee Income	-277.21	
Atlantic Geology Income	35.00	
Donations to AGS	0.00	
Royalty Income	128.38	
Miscellaneous Revenue	462.00	
TOTAL OTHER INCOME	7,960.27	
TOTAL REVENUE		10,415.34
EXPENSE		
OPERATING EXPENSES		
Speaker Tour	-306.26	
AGS Awards	250.00	
Bank Charges	25.50	
Printing	275.17	
Nova Scotia Highway Map	5,828.20	
Fundy Poster and Paintings	3,240.00	
NS Gem Mineral Show Table Rental	500.00	
Postage	391.96	
Telephone	313.94	
Colloquium/Symposium Expenses	7,618.16	
Registry of Joint Stocks	55.00	
Miscellaneous Expenses	500.00	
TOTAL OPERATING EXPENSES	18,691.67	
DONATIONS		
Atlantic University Geological Conf	500.00	
Atlantic Geology: Club Subscription	525.00	
Atlantic Geology - Colloquium Abstr	2,520.00	
N.B. EdGeo Workshop	500.00	
TOTAL DONATIONS	4,045.00	
TOTAL EXPENSE		22,736.67
NET INCOME		-12,321.33

Printed On: 14-04-06

Atlantic Geoscience Society
Balance Sheet As At 31-12-05

ASSETS			
CURRENT ASSETS			
RBC - Woodside	2,159.14		
Bank of Nova Scotia	0.00		
Bank - AGS Education Committee	22,119.08		
Bank - Video Committee	21,659.71		
Bank - EdGeo Committee	5,339.81		
Bank - Atlantic Geology Journal	12,358.21		
Cash: Total		63,635.95	
AGS Investments		29,016.55	
Atlantic Geology Investments		20,000.00	
AGS Educ Commmittee Investments		0.00	
Atl Geol Accounts Receivable		1,290.00	
Atl Geol: Prepaid Expenses/Deposit		1,207.58	
TOTAL CURRENT ASSETS		115,150.08	
TOTAL ASSETS			115,150.08
LIABILITIES			
CURRENT LIABILITIES			
Atl Geol Accounts Payable		1,693.08	
AGS Accounts Payable		0.00	
HST on Sales	0.00		
HST on Purchases	0.00		
HST Owing (Refund)		0.00	
TOTAL CURRENT LIABILITIES		1,693.08	
TOTAL LIABILITIES			1,693.08
EQUITY			
AGS FUND BALANCES			
AGS Fund Balance, Beginning		33,841.42	
AGS Special Awards Fund Balance		6,386.58	
AGS Education Committee Fund Balan		22,119.08	
Video Committee Fund Balance		21,659.71	
EdGeo Committee Fund Balance		5,339.81	
Atlantic Geology Journal Fund Balan		33,162.71	
Retained Earnings		3,269.02	
Current Earnings		-12,321.33	
TOTAL AGS FUND BALANCE		113,457.00	
TOTAL EQUITY			113,457.00
LIABILITIES AND EQUITY			115,150.08

Printed On: 14-04-06

Atlantic Geoscience Society
Income Statement 01-01-04 to 31-12-04

REVENUE	
MEMBERSHIPS REVENUE	
Memberships - Regular	1,275.61
Memberships - Student	390.00
TOTAL MEMBERSHIP REVENUE	1,665.61
PUBLICATIONS REVENUE	
Maps	49.00
Special Publications	251.00
Videos	0.00
TOTAL PUBLICATIONS REVENUE	300.00
OTHER INCOME	
Bank Interest	0.76
Investment Income	0.00
Copyright/Royalties	261.05
Colloquium/Symposium Income	7,066.50
AGS Education Committee Income	260.00
Donations to AGS	0.00
Miscellaneous Revenue	73.01
TOTAL OTHER INCOME	7,661.32
TOTAL REVENUE	9,626.93
EXPENSE	
OPERATING EXPENSES	
Speaker Tour	618.05
AGS Awards	262.00
AUGC Speaker Expenses	426.30
Bank Charges	40.04
Postage	187.65
Telephone	236.13
Colloquium/Symposium Expenses	7,938.41
Software	57.50
Registry of Joint Stocks	25.00
Miscellaneous Expenses	19.01
TOTAL OPERATING EXPENSES	9,810.09
DONATIONS	
Atlantic University Geological Conf	990.00
Atlantic Geology: Club Subscription	525.00
Atlantic Geology - Colloquium Abstr	0.00
AGS Education Committee	1,656.10
N.S. Geological Highway Map	440.00
TOTAL DONATIONS	3,611.10
TOTAL EXPENSE	13,421.19
NET INCOME	-3,794.26

Printed On: 27-01-05

Atlantic Geoscience Society
Balance Sheet As At 31-12-04

ASSETS		
CURRENT ASSETS		
RBC - Woodside	2,349.09	
Bank of Nova Scotia	0.00	
Bank - AGS Education Committee	24,933.34	
Bank - Video Committee	18,851.15	
Bank - EdGeo Committee	5,789.01	
Bank - Atlantic Geology Journal	4,121.05	
Cash: Total		56,043.64
AGS Investments		41,036.08
Atlantic Geology Investments		20,000.00
AGS Educ Commmittee Investments		0.00
Atl Geol Accounts Receivable		5,330.00
Atl Geol: Prepaid Expenses/Deposit		36.11
Advance Receivable-Wallace Loan		-248.23
TOTAL CURRENT ASSETS		122,197.60
TOTAL ASSETS		122,197.60
LIABILITIES		
CURRENT LIABILITIES		
Atl Geol Accounts Payable		1,693.08
AGS Accounts Payable		0.00
HST on Sales	0.00	
HST on Purchases	0.00	
HST Owing (Refund)		0.00
TOTAL CURRENT LIABILITIES		1,693.08
TOTAL LIABILITIES		1,693.08
EQUITY		
AGS FUND BALANCES		
AGS Fund Balance, Beginning		23,481.34
Atlantic Geology Loan Fund Balance		10,000.00
AGS Special Awards Fund Balance		6,386.58
AGS Education Committee Fund Balan		24,933.34
Video Committee Fund Balance		18,851.15
EdGeo Committee Fund Balance		5,789.01
Atlantic Geology Journal Fund Balan		27,794.08
Retained Earnings		7,063.28
Current Earnings		-3,794.26
TOTAL AGS FUND BALANCE		120,504.52
TOTAL EQUITY		120,504.52
LIABILITIES AND EQUITY		122,197.60

Printed On: 27-01-05

ATLANTIC GEOSCIENCE SOCIETY
VIDEO PROJECTS COMMITTEE

TREASURER'S REPORT
2005

ACCOUNTS (Scotia Bank - Hollis Street Branch)

Balance on January 1st, 2005		$ 18,851.15
Balance on December 31st, 2005		$ 21,659.71
Blue Chip Savings:	($ 905.96)	
Money Master High Interest Savings:	($20,753.75)	

INCOME		
Donations:		
AGS	$ 4,000.00	
Exxon Mobil (Aug 26)	2.000.00	
Halifax Regional Municipality (Aug 26)	2,000.00	
EnCana (Sept 9)	5,000.00	
Halifax Port Authority (Nov 9)	2,000.00	
Canadian Geological Foundation (Dec 9)	8,000.00	
Bank Interest:	318.66	
Total Income	$ 23,318.66	$ 23,318.66
EXPENSES		
Moon Glow Digital Video (Sept 8) R	$10,198.78	
MoonGlow Digital Video (Oct 28) R	10,198.78	
Gordon Fader expenses R	93.85	
Bank Charges	41.85	
Total Expenses	$ 20,533.26	$ 20,533.26
Net Gain/Loss		$ 2,785.40

Notes: A total of $ 23.16 is unaccounted for. Most likely from unreported bank interest; R =receipt kept; Transferred $2,443.06 from Blue Chip to Money Master.Oct 28, 2005.

Respectfully submitted,
David B. Hopper, Treasurer
AGS Video Projects Committee.
January 20th, 2006

Financial Report of Nova Scotia EdGEO Workshop Committee - 2005

2004 carry-over			5789.01
Revenue			
Registration fees	2370.00		
EdGEO grant (May workshop)	1185.00		
EdGEO grant (August workshop)	1500.00		
Interest accrued	.46		
Unknown revenue	.05		
Sub-total		5055.51	
Expenses			
Admission to Blue Beach Museum (2004 workshop)	40.00		
Funds returned to National EdGEO with 2004 report	2258.94		
Resource Kits (Halifax 2005)	200.68		
Resource Kits (Parrsboro 2005)	178.54		
Paper for registration kits	18.63		
Safety glasses	86.68		
Samples for rock kit	48.00		
Lunch and break (Halifax 2005)	322.55		
"The Last Billion Years" (Halifax 2005)	425.00		
Museum of Natural History book (U. Carb fossils)	62.60		
Travel expense (gas) - Stellarton - rock kit assembly	36.74		
Mineral kit boxes	99.36		
Field trip lunches (Parrsboro 2005)	345.00		
Joggins Fossil Centre entry fee	52.00		
Presenters' travel expenses	202.98		
Dinner (day 1 - Parrsboro 2005)	252.73		
Lunch (day 3 - Parrsboro 2005)	241.50		
"The Last Billion Years" (Parrsboro 2005)	325.00		
Stop on cheque #289	10.00		
Travel expense of presenter (M. Oakes)	44.36		
Break drinks and food	85.08		
Soil poster prints and liquor license	31.63		
What on Earth subscription	15.00		
Returned registrations (2005)	75.00		
Service charges	46.71		
Sub-total		5504.71	
Balance (December 31, 2005)			5339.81

NOTE: These cheques were not cashed as of December 31, 2005

NSMNH books for 2003 workshop	191.31
Mineral kits (boxes and minerals)	39.10

ATLANTIC GEOSCIENCE SOCIETY
EDUCATION COMMITTEE
FINANCIAL REPORT FOR 2005

BALANCE (1 January 2005)	$24,933.84
INCOME	
Helle-Shaw Cells: 10 cells to Dalhousie University (5 January)	200.00
The Last Billion Years, 30 copies to the Nova Scotia Department of Energy (5 January)	625.00
The Last Billion Years, 1 copy (26 January)	30.00
The Last Billion Years, 1 copy (26 January)	20.00
The Last Billion Years, 2 copies (28 January)	70.00
The Last Billion Years, 6 copies to Dalhousie University (3 February)	210.00
The Last Billion Years, 1 copy to the AGS Colloquium (4 February)	30.00
The Last Billion Years, 6 copies to AGS (2 March)	240.00
Colouring Books, 5 copies to AGS (2 March)	10.00
The Evolving Maritimes Poster, 5 copies to AGS (2 March)	10.00
The Last Billion Years, repayment 2 copies to Dalhousie University (7 March)	70.00
The Last Billion Years, 4 copies to Dalhousie University (7 March)	120.00
The Evolving Maritimes Colouring Book, 2 copies (9 March)	4.00
The Last Billion Years, 1 copy (18 May)	30.00
The Last Billion Years, 1 copy (31 May)	30.00
The Last Billion Years, 1 copy (1 June)	20.00
The Last Billion Years, 17 copies to Halifax 2005 Workshop (6 June)	425.00
The Last Billion Years, 1 copy to ACASE Conference (8 June)	30.00
The Evolving Maritimes Colouring Book, 1 copy to ACASE Conference (8 June)	2.00
The Evolving Maritimes Colouring Book, 1 copy (28 July)	2.00
The Last Billion Years, 13 copies to the Nova Scotia EdGEO Workshop (19 August)	325.00
The Last Billion Years, 1 copy (20 September)	30.00
AGS Grant for the Fundy Basin Project (20 October)	3,240.00
The Last Billion Years, 5 copies to the AST Conference (28 October)	130.00
The Evolving Maritimes Colouring Book, 5 copies to the AST Conference (28 October)	10.00
The Last Billion Years, 1 copy (1 November)	30.00
Honorarium from AST Conference for Rob Fensome, John Shimeld, Graham Williams (7 November)	60.00
The Last Billion Years, 3 copies (18 November)	90.00
The Last Billion Years, 2 copies (25 November)	40.00
TOTAL INCOME	$6,133.00
EXPENSES	
Image House, scanning of five Fundy paintings (4 January)	431.25
Cheque returned (25 February)	70.00
Nimbus Publishing, 50 copies of The Last Billion Years (8 March)	963.00
Nimbus Publishing, 50 copies of The Last Billion Years (15 August)	963.00
AGS Video Committee, GSC grant for Halifax Harbour (25 August)	5,000.00
Maritime Frame It, deposit for framing five Fundy paintings (23 September)	925.00
Jean Alfred Renaud, translation of EarthNet glossary terms (20 December)	544.16
Scotia Bank service charges	47.40
TOTAL EXPENDITURE	$8,947.76
BALANCE (31 December 2005)	$22,119.08