

GEONEWS

Summer 2003

MESSAGE FROM THE HEAD

Greetings! We're pleased that you're reading our Departmental Newsletter.

As we all know, time passes quickly. It's now been nearly 10 years since Herb Helmstaedt became Head of the Department. After two eventful terms, he has now stepped down and begun a well-earned year of administrative leave. Personally and on behalf of the whole Department, I'd like to thank him for his dedicated and insightful leadership. He faced some daunting challenges - a run-in with the Canadian Engineering Accreditation Board, the loss of our beloved Departmental Library, and the ongoing financial squeeze come to mind particularly, but he has left the Department in excellent health. Our undergraduate programs in both Geological Engineering and Arts and Science are revitalized, with projected second-year enrolments at recent highs. The Departmental Reading Room and computer facility that now occupy the former library space are attractive and heavily used. And, despite the financial pressures, we have been able to replace retiring faculty with active young colleagues who are making an enormous, positive contribution to our undergraduate teaching programs and to our reputation as one of the premier geoscience departments in Canada. **THANK YOU HERB for all you've done for the Department!!**

As the new Head, I have no grand plans for change.... as the saying goes, "if it ain't broke, don't fix it." My objective is to continue to enhance our teaching and research activities, in part through increased involvement of our many loyal alumni. To that end, you will see elsewhere in this Newsletter the announcement of a planned gathering of Queen's Geology alumni in Calgary later this year. This initiative was sparked by the successful reunions hosted by Mike Doggett and Herb Helmstaedt in Toronto and Vancouver. I'd specifically like to thank Mike for getting the ball rolling on the Calgary gathering.



R.W. DALRYMPLE

Go to our website at <http://geol.queensu.ca> and have a look at "First Steps on Land" and "The Oldest Complex Animals" See News from the Department for more detail.

In other good news, I am especially pleased to tell you that **Ray Price**, former Head of the Department, Director General of the Geological Survey, and world-renowned structural geologist, has been named an **Officer of the Order of Canada**, a singular and well-deserved honour! I am also pleased to report that the Department has received permission to search for a Canada Research Chair in the general area of solid earth materials and their cycling between the mantle, crust, and earth-surface environment. This search is just beginning. We hope that the successful candidate will strengthen our mineral-deposits group.

Finally, for those who may not know much about me... I arrived at Queen's in 1980 as an Assistant Professor, after getting my Ph.D. at McMaster University and holding a post-doctoral fellowship at Oxford University. My general area of interest is clastic sedimentology. I've worked on a variety of modern coastal environments, including the Bay of Fundy, the Fly River delta in Papua New Guinea, and most recently the west coast of South Korea. I've also worked extensively with Guy Narbonne and Noel James on Neoproterozoic successions in NW Canada and Newfoundland. Many of my students have undertaken projects in the western Canada sedimentary basin, with oil-industry support.

Thanks again for taking the time to keep up with events here in Queen's Geology. Your continued interest is greatly appreciated. Your comments and questions are always welcome.

NEWS FROM THE DEPARTMENT

Al Gorman's contributions to this Newsletter are greatly appreciated. He has now completed the **Eighth Decade** of the departmental history (1963-1973), and he again collected and collated the **Alumni Update** that appears below. He also prepared another crossword puzzle.

Comings and Goings: On June 30, 2003, **Tom Pearce** retired, and on July 1, 2003, **Laurent Godin** took up his new position as structural geologist/tectonician in the Department. Laurent obtained his PhD from Carleton University and comes to us from Simon Fraser University, where he had his first academic position. He has field experience in the Canadian Cordillera, the Himalayas, and the Canadian Shield, and we hope that he will help us to keep the Queen's field geology tradition alive and well.

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News From the Department *(Continued from page 1)*

Homecoming Weekend in September, 2002, was a great success and a good time was had by all. Thanks for dropping in! Probably the best time was had by the group of 1952 postgraduates who used the opportunity to have a reunion at Opinicon lodge. Bob Baragar of the Geological Survey of Canada sent us a report of the Fiftieth Anniversary Reunion of Queen's Geology graduate students which appears on page 5.

Reunions at Vancouver Cordilleran Roundup and Toronto PDAC:

The reunion of Queen's Geology graduates at the 2002 Roundup was such a success that we decided to have another one in January 2003. Mike Doggett and Herb Helmstaedt met again with at least 50 alumni in the Captain's Room of the Westin Bayshore, many of whom had not been able to make it the previous year. Our Alumni Night at the PDAC in Toronto was a similar success and was attended by numerous past and present profs as well as alumni living in just about every corner of the world. We still have not lived up to our promise to hold a similar event in Calgary, but as Bob Dalrymple's peregrinations take him routinely through Calgary, a reunion there should not be far off (see more elsewhere in the Newsletter).

"First Steps on Land": Bob Dalrymple was featured on "the National" (June 5, 2002) in a report about the oldest-known on-land trackway fossils found in sandstone of the Kingston area. Bob was co-author with **Rob McNaughton** (PhD, 1997) and four others of a paper published in *Geology* (May 2002; see also *Canadian Geographic*, Nov./Dec. 2002) featuring arthropod trackways in the eolian Potsdam sandstone, north of Kingston. Reports were also featured in the journals *Nature* and *Science*. This event in evolution was the animal equivalent of humans going into space! **Mark Badham** has placed a sample of one of the trackways on display in the Miller Museum's "Dawn of Animal Life" exhibit. Just open our website to have a look at it.

"The Oldest Complex Animals": Also added to the "Dawn of Animal Life" exhibit were a number of specimens of up to two-metre-long fossilized seapens (*Charnia*) from Late Precambrian (~580 Ma) rocks of the Avalon Peninsula in southern Newfoundland. These unusual fossils were discovered by **Guy Narbonne** and **Jim Gehling**, one of our former William White Post-Doctoral Fellows (now in Adelaide, South Australia), and were described in the January 2003 issue of *Geology*. The paper caused quite a stir, the results being featured in numerous newspapers, on CBC's "Quirks and Quarks" and the "World at 6", as well as in the journals *Science* and *Nature*. The importance of this new fossil locality has been compared to that of the Burgess Shale in the Canadian Rockies.

Awards Received at the Canadian Society of Petroleum Geologists Annual Meeting:

Queen's Geology graduate students made an impressive showing at the CSPG's Annual Meeting in June. **Mike Johnson** (with Bob Dalrymple) won the overall prize for "Best Geological Paper" for his talk on "Negative accommodation and its influence on reservoir geometry and quality: The Lower Cretaceous Cadomin Formation of the Deep Basin Area, AB"; **Dave Deline** (with John Dixon) had the "Best Integrated Poster" (combined geology and geophysics) for his work on "Seismic Interpretation and Physical Analog Modelling of a Sub-Surface Lateral Ramp in the Southern Canadian Rockies (Crowsnest Pass Area, S.W. Alberta)"; and **Mike Cooley** (with Ray Price, John Dixon, and Kurt Kyser) received First Honourable Mention in both the "Best Student Paper" and "Best Integrated Poster" categories for his presentation on "Structural Geology of the Southern Livingstone Range Anticlinorium and the Architecture of the Centre Peak Anticline; A Paleo-Hydrocarbon Reservoir".

Officer of the Order of Canada: Dr. **Raymond Price** has been awarded Canada's highest honour for lifetime achievement - The Order of Canada.

The Order of Canada was established in 1967 to recognize outstanding achievement and service in various fields of human endeavour. It is our country's highest honour for lifetime achievement. In his continuing distinguished career, Dr Price has made significant contributions to our understanding of the geology of Canada, with special reference to the Canadian Cordillera in Alberta and British Columbia. He has also held many positions of leadership, serving as Director General of the **Geological Survey of Canada** from 1982 to 1987, and Assistant Deputy Minister of the **Department of Energy, Mines and Resources** (the predecessor of today's **Department of Natural Resources**) 1987-88.

Chancellor's Research Award: Congratulations to **Dr. Heather Jamieson** on her recent success in the 2003 Chancellor's Research Award program. Heather was one of only five successful candidates in this highly competitive program. She was selected on the basis of her research excellence and the potential of her research proposal, entitled: "Geochemical Controls on Human Health Risk Associated with Contaminated Soils". The Chancellor's Research Awards Program is open to researchers from all disciplines in arts, humanities, social science, engineering and medicine. It is the largest single award that Queen's gives to individual researchers. Under the terms of the award 80% of the money will go towards the support of graduate student research.

An interesting report of the Fiftieth Anniversary Reunion of Queen's Geology Graduate Students submitted by Bob Baragar appears on page 5 of our Newsletter.

The citation to be read at Dr Price's induction ceremony is available on the Department News page <http://geol.queensu.ca/news.html>

THE EIGHTH DECADE 1963-1973

THE EIGHTH DECADE, 1963-1973-RAPID EXPANSION (by W.A. Gorman)

Faculty numbers increased from 9 to 19 during this decade. Long-term professors Willis Ambrose and Fred Jolliffe retired, and Felix Mendelsohn and Hugh Wynne-Edwards resigned after shorter stays. The greatest area of increase in faculty numbers was in soft rock, where Bob Greggs, Leigh Smith and Grant Bartlett joined Jack Usher to expand offerings there. Mineralogy and petrology had Dugald Carmichael, Mabel Corlett and Tom Pearce added to Len Berry and Pete Roeder to strengthen that area. Ed Hawley and Fred Jolliffe were the faculty most involved in economic geology, but now the field was covered off by Alan Clark, Ian Nichol and Jay Hodgson. Bob Uffen and Ed Farrar joined Mike Fitzpatrick to look after all things geophysical. Instruction in structural geology rested on the shoulders of Ray Price now that Willis Ambrose had retired. Finally, Jim Neilson was hired as our first geotechnical engineer, which ended Al Gorman's task of teaching a subject he knew nothing about. Doug McCartney taught economic geology from 1966 till 1970. To begin the decade, Willis Ambrose took over as department head from Ed Hawley, and the decade ended with Ray Price taking over from Hugh Wynne-Edwards.

The most visible change was the addition of the Bruce Wing. The floor numbering was arranged so as to confuse guests and intruders. The first floor Miller is on the same level as the second floor Bruce. To get from the second floor Miller to the third floor Bruce, you go DOWN a flight of stairs. The first floor (basement) of Bruce was initially a mix of research and teaching labs. The second floor had our big new library, and for the first time, administrative offices that were designed for that purpose. The third floor was offices and teaching labs, the fourth, offices and research labs, and the fifth, offices, a lounge, and the only washroom in the new wing. How did we get the university to authorize all this new space? It was a combination of increasing enrolment and an amazing star-gazing act by Hugh Wynne-Edwards, The chart below shows the rapid expansion of degrees granted during the second half of the decade. Hugh took these data to the administration and convinced them that we would have 250 undergrads and 150 grads in the building by 1980. They fell for it and, his job here done, Hugh left for the tropical climes of UBC, seeking new administrations to conquer.

The graph shows the very low numbers of students in

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FIELD STUDY PROGRAM ENDOWMENT FUND

Queen's Geology prides itself in the large amount of field training that we offer our students. We believe that the field is where learning takes place most rapidly and effectively, and employers uniformly identify field skills as a highly desirable quality. However, given the ever-shrinking size of our Departmental operating budget, it is increasingly difficult to continue our existing field-school and field-trip program, and the introduction of new activities is all but impossible.

For this reason, the Department has identified the creation of an endowment fund to support and enhance our field program as one of its highest priorities. The objective of the campaign is to raise \$1,000,000, the interest from which will be used to make our field program the best in the country, while remaining affordable to students. For many years, we have charged students a "Field Transportation Levy" that partially covers the cost of field transportation. In addition, students must pay the cost of their accommodation and meals while off campus. The combination of these charges represents a total expenditure that exceeds \$1,000 per student. We would like to reduce this expense, through the eventual elimination of the "Field Transportation Levy".

There have already been many donations to this fund. The largest to date comes from Sue (Riddell; B.Sc., Hon., Geol. Eng., '86) and Mike Rose (B.Sc., Hon., '79) who have made a generous, multi-year commitment to our field program. Their assistance has allowed us to create a new field school in sedimentary geology, and to increase the field-work opportunities in geotechnical engineering. Their support is greatly appreciated!

As you know, our students have a well-deserved reputation for their ability to relate theory to practical field applications. With the support of our alumni, we feel that the Field Studies Program Endowment Fund will ensure the Department's competitive advantage in recruiting and graduating the very best geologists and geological engineers.

To discover more about this endowment fund and how to contribute, please visit our Departmental Web Page geol.queensu.ca and follow the link to "Field Study Program" or contact one of the following:-

Bob Dalrymple, Head, Department of Geological Sciences and Geological Engineering, 613/533-2598, dalrymple@geol.queensu.ca

Lily Harriss, Senior Development Officer, Faculty of Arts and Science, 613/533-6000 ext. 75088, or

Kathy O'Brien, Development Officer, Faculty of Arts and Science, 613/533-6000 ext. 75501.

CALGARY REUNION OF QUEEN'S GEOLOGY ALUMNI

It is a distinct pleasure to announce the first-ever reunion of Queen's Geology alumni to be held in Calgary.

SATURDAY, SEPTEMBER 27, 2003!
From 7:00 p.m. until ???

Through the generosity of Roger Smith (B.Sc.Eng., '71; M.Sc., '78) and his wife, Lorna (Griffin) Smith (B.A., '69; M.A., '72) the event will be held at their home:

**24 WILD ROSE DRIVE,
 WESTRIDGE PARK, SPRINGBANK
 CALGARY, ALBERTA**
 (please see attached map for directions)

The star attraction will be Uncle Al Gorman! Drs. Dalrymple, Doggett, and James are also expected to attend. A sumptuous "grazing" opportunity of hors d'oeuvres (including Alberta beef) will be provided and the Queen's Geology "BYOB" tradition will prevail!

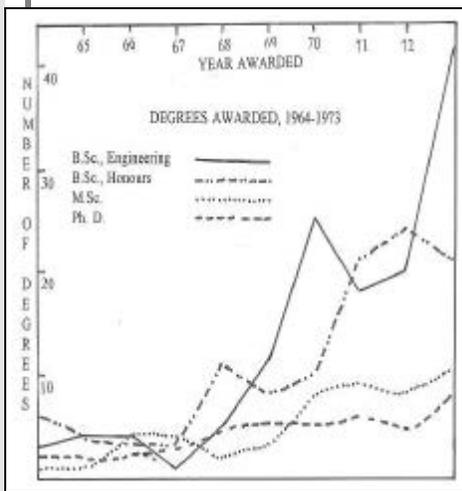
We encourage you to come and meet old friends, make new ones, and find out what's happening in the Department today. Your spouse / guest is welcome.

Please RSVP to:
Tracey Reynaud, (403) 205 6767
 treynaud@suncor.com
before September 20, 2003, with your name, graduation year, and whether or not you will be bringing a spouse / guest.

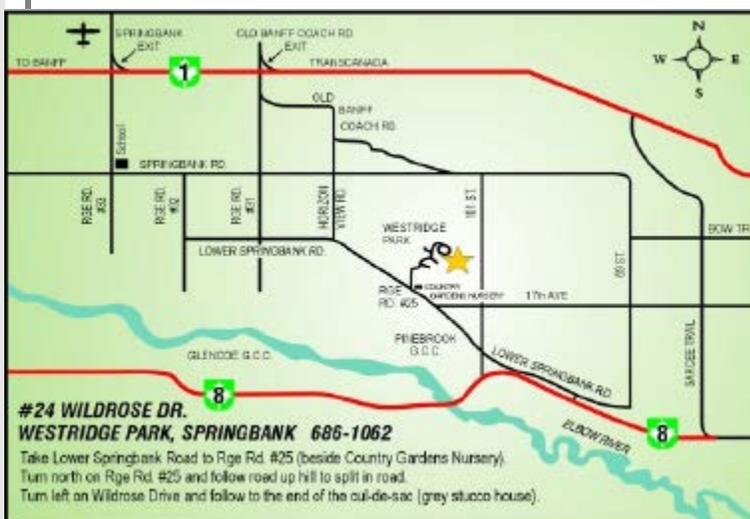
We look forward to seeing you there!

The Eighth Decade *(Continued from page 3)*

geology at the start of this decade. The largest number of all degrees granted in any of its first four years was 12. The class of Science '67 had only one grad, Geoff Steed. He claimed he was best in his class, I claimed he was worst. He went on to teach at Aberystwyth, Wales, but I believe he is now in Cardiff. Of 16 undergrads in the class of '68, 15 went on to graduate work, and 11 obtained Ph.D.'s. Obviously they were a group that would do anything to avoid actually going to work.



Despite the decade's poor start, the increase in average number of degrees granted per year over the previous decade was, for Ph.D.'s, from 1 to 4, for M.Sc.'s, from 4 to 5, and for B.Sc.'s, from 15 to 25. Two new options were introduced in Applied Science, Geophysics in 1965 (Ted Glenn, Eng. '66, was the first graduate) and Stratigraphy and Sedimentation in 1968. About 20% of undergrads went on to a Ph.D. Most ended up in mineral exploration, as the oil patch was then only a oil spot. Only about 20 of the decade's 328 graduates went into university teaching, which demonstrates the high intelligence of our graduates. In 1971, Sue Roddick was the second female to earn a masters degree in Geology, and the first to get a M.Sc. Tom Pearce, Ph. D., '67, came back to Queen's to teach, and retires this year. Sandra McBride, M.Sc., '73, came back and is still teaching. Bill Karvinen, Hon. '68, Doug VanDine, Eng. '72, and Dennis Woods, Eng '73, came back briefly to teach, then saw the error of their ways. Will Bawden of the filthy Science jacket, Eng '70, came back to teach **in Mining!!!** Oh, the shame. Dave Fritz, also, Eng '70, came back and teaches **in Mechanical!!!** More shame.



1952

Bob Baragar, M.Sc., retired from the G.S.C. in 1991, and continued as an emeritus scientist compiling data on the Circum-Superior Belt of Eastern Hudson Bay.

1959

Donald MacDermott, B.Sc., Hon., L.L.D., Osgoode Hall, 1963, retired in Edmonton, wonders if geologists still hoof it when mapping. I suspect less than we did in the Middle Ages, Don.

1960

George Bennett, B.Sc., Eng., reported in after over 40 years. He worked for Harbison-Walker all over the world (except Antarctica), mainly concerned with the mining of refractories, and retired as Director, Mining and Minerals. He climbed Kilimanjaro at age 55, and walked the Inca Trail at 57 from Urabamba to Machu Picchu.

1961

Neil Macrae, B.Sc., Eng., M.Sc., Ph.D., McMaster, retired in 2001 after teaching for 35 years at Western. In 2000, he was selected for the province-wide OCUFA Teaching Award to add to his Faculty of Science teaching award. However, he continues to teach at Western.

1970

John Hayles, B.Sc., Eng., M.A.Sc., 1973, UBC, after a long spell as a geophysicist with Atomic Energy of Canada, now runs Hayles Geoscience Surveys Ltd. in Manitoba.

1971

Wayne Savigny, B.Sc., Eng., Ph.D., Civil, Calgary, 1980, gave a talk in the Queen's Civil Department in February, 2003, on "Geotechnical Applications in the Pipeline Industry". His honours include the Thomas Roy Award and the Roger J.E. Brown from the Canadian Geotechnical Society and a Teaching Excellence Award from UBC.

Outreach courses for high school students held in Miller Hall provided us with "Blimps in the Hall"

see photo lower left

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Fiftieth Anniversary Reunion of Queen's Geology Graduate Students

by Bob Baragar, Geological Survey of Canada

A 50th anniversary reunion of Queen's graduate students in Geology was held at the Opinicon Country Hotel at Chaffey's Locks on the Rideau River on the September 27-29 weekend. Although 1952 was the reference year the aim was to include all graduate students, masters and doctoral candidates, who were in the geology department during the years 1951-52. From an original total of 23 graduate students in the department during this period, 10 were able to attend the reunion. Not a bad return. With spouses, the attendees were Keith and Lorraine Abel, Bob and Dorothy Baragar, Al and Marion Goodwin, Gordon and Betty Gross, Dick and Norma Jones, Paul Le Comte, Don and Marion Richter, Heddy Rimsaite, Pierre Sauvé, and Bob and Shirley Trill. The most far-traveled were the Richters from Anchorage, Alaska; the rest were from Montreal, Ottawa, Toronto and Kingston. Six couples and individuals stayed at the Opinicon, the others commuted from cottages and homes but all met for dinners at the hotel Friday and Saturday nights.

The program was informal. Pre-dinner, dinner, and post-dinner gatherings generated an incredible level of discourse as people caught up with the news of one another and discovered how much they still have in common. Conversation was not a problem. During the evenings people who had brought slides gave brief talks that highlighted their lives over the past 50 years and thereby added some colour and reality to the intervening years that conversation alone might have fallen a bit short on.

On Saturday morning a number of the group took advantage of the Queen's Homecoming weekend to tour their old department. Herb Helmstaedt, the current Head of the Department guided the tour around Miller Hall and its new Bruce Wing. The physical plant of the old Miller Hall was sort of familiar, most were able to locate their old offices and laboratories, but the functions to which these are now dedicated has greatly changed: in the 1950's such things as mass spectrometers and argon-argon laboratories weren't even on the radar screen whereas today's students would probably find blow-pipe laboratories a little quaint. A nostalgic memory for most of the group was a visit to the old Miller Research Room which for us had been the core of Miller Hall; the site of virtually all seminars, examinations, informal discussions, and coffee breaks. On one wall had been Dr. Hawley's Argues gallery@ a picture gallery of old graduate students to which we were all invited to contribute when we finally left Queen's for the world outside. Now Miller Room serves as student offices. No one could tell us

(Continued on page 6)



"Blimps in the Hall"

Fiftieth Anniversary Reunion *(continued from page 5)*

what happened to the Arogues gallery@

After the tour, responding to an invitation from Dick and Norma Jones, we had a marvelous lunch in their very elegant home in Kingston west and another opportunity for reminiscent chat that extended lunch through most of the afternoon.

The Reunion ended on Sunday with a great baked-bean lunch by Betty and Gordon Gross at their cottage on Pike Lake about an hour's drive from the Opinicon. It was a beautiful fall day, as only fall days can be in Ontario, and a beautiful setting. Lunch, once again, extended well into the afternoon and, but for the pressures of travel schedules, might have gone on indefinitely. Certainly the fountain of chatter had hardly run dry. The ties of youthful friendships and of common interests, it seems are remarkably durable.

Now that the ice has been broken again after all these years, perhaps we can hope that some of our re-established contacts will endure into the future.

Thanks to all for coming.



**Fiftieth Anniversary Reunion of Queen's Geology Grad Students
September 27-29, 2002.**

**L-R Front Row- Paul Lecompte, Gordon Gross, Bob Truill,
Pierre Sauvé**

L-R Back Row- Don Richter, Bob Baragar

Alumni Update - *(continued from page 5)*

1972

Doug VanDine, B.Sc., Eng., M.Sc., Civil, 1975, can't retire because interesting jobs or interesting places to go keep arriving on his doorstep. Some people just don't know when to quit.

1973

Jack Callahan, Ph.D., is retiring from a teaching career at Appalachian State U.

1974

John Gunton, Ph.D., left the Oil Patch in 2001 after 27 years, and has his own consulting firm on Vancouver Island. His son Matthew got his B.Sc., Life Sciences, Queen's, in 2002.

1979

Chris Morton, B.Sc. Hon., M.Sc., Stanford, 1981, M.B.A. Pennsylvania, 1990, has been transferred to Thomson's West Group, and can be reached at chris.morton@westgroup.com.

Eric Sacks, M.Sc., is a geologist on the NEBC Development Team, BP Canada Energy, Calgary.

1980

Gary Greer, B.Sc., Hon., B.Ed., 1988, Mt Allison, was working on an M.Ed. in Information Technology at Memorial University of Cape Breton at this time last year.

1982

Anna (Pedskalny) Green, B.Sc. Hon., is still in Calgary. A couple of car accidents have cramped her style. She didn't say if she was still flying gliders.

1985

Rick McCreary, B.Sc.Eng., M.Sc., 1990, M.B.A., McGill, 1996, is Executive Director, CIBC World Market's Global Mining Group, operating in North America, Asia and Europe.

1987

Fred Ford, B.Sc. Hon., received the Senate Medal from Carleton University for his outstanding doctoral thesis on metamorphism in the Grenville Province. He now works for INCO.

1990

Dave Gibbon, B.Sc. Hon., after 11 years in Calgary, moved to Stavanger, Norway, in 2002 to work in a marketing role with Schlumberger.

He's married with two kids.

1994

Cathy Corrigan, B.Sc.Eng., M.Sc., 1997, left RMC to join the UMA Group in Calgary. She is still working on DEW Line cleanup, but now with a more on engineering focus

(Continued on page 7)

Alumni Update - (continued from page 6)

1995

Jill (Belisle) Daughtery, B.Sc. Eng., reports that she added Eric to her family last fall. She works with the Environmental Sciences Group at RMC.

John Newgard, B.Sc. Eng., 1996, is finishing up his M.Sc. in Physical Oceanography at Dalhousie between episodes of surfing, yacht racing, and hockey. He reports that **Jason Staples** is in Ottawa with Edigenous Technology, and that **Matt Pierce** and **Marc Ruest** are in the mining consulting industry in Minneapolis.

1996

Treena Bron, B.Sc. Hon., after 5 years with Schlumberger as a drilling service engineer in Nigeria, Tunisia, Abu Dhabi, China, Holland, Texas, Brazil, France, Malaya and Venezuela, finally landed in Australia a year ago. At that time her e-mail was tbron@eudoramail.com

Guillermo Gastelum-Morales, M.Sc., lives in Chihuahua and carried out mineral exploration for Servicios Industriales Peñoles, S.A. de C.V.

Darlene Nelson, B.Sc.Eng., is with Placer Dome in Timmins working as a Senior Ground Control Officer. Married in 1998, she has a 2 year-old daughter, Emma Grace Elizabeth.

1998

Nadia Bélanger, B.Sc.Eng. and **Art McCarthy**, B.Sc.Eng. got married in Ottawa last June. They are both working for Calgary firms, but I gather Art does some foreign jobs. They have their own home, I think, in northwest Calgary.

Jordan Beveridge, B.Sc.Eng., married Cathy Mellon in Ottawa on November 22, 2002.

Chris Elvidge, B.Sc.Eng., M.Sc., Civil, 2000, is with Terraprobe in Toronto. He gave a talk in the Queen's Civil Department in February, 2003, on "The Importance of Establishing Contacts".

Gavin Grant, B.Sc.Eng., M.Sc., 1998, Civil, Queen's, left his job in Boston and is now taking a Ph.D. in contaminant hydrogeology at Edinburgh under the direction of Prof. Jason Gerhard.

John MacKenzie, B.Sc. Hon., is working for Elehost Web Design in Toronto.

1999

Hua Liu, M.Sc., is locating copper deposits in the jungles of Sarawak for Mabong Mining.

CROSSWORD PUZZLE

1	2	3	4	5	6	7	8	9	10	11	12
13					14	15		16			
17				18				19			
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25		26		27			28			29	
	30		31			32			33		
34	35		36			37		38		39	
	40							41			
42				43	44		45	46			47
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50	51		52			53				54	
55		56			57				58		
59			60		61				62		
63				64		65			66		
67						68					

ACROSS

- 1. Water trapped in sediment
- 7. Bends without breaking
- 13. Repeat
- 14. Compass heading
- 16. Faded
- 17. Street woman's boss
- 18. Dolomites home
- 19. Office note
- 20. Cain's Mom
- 22. Scottish small
- 24. Help!
- 25. Concerning
- 26. Hard-to-weather mineral
- 29. Millerite metal
- 31. Bear's winter home
- 32. Period of time
- 34. Twixt granite and gabbro
- 37. Can be cut with a knife
- 40. Wander
- 41. TO footballer
- 42. Pyrope and uvarovite
- 45. Intellectual

meeting

- 48. Maiden name
- 49. Friend of Marc
- 50. A plagioclase
- 52. Characteristic
- 54. South America
- 55. Close off a well
- 57. Asian Republic
- 58. Everyone
- 59. The same as
- 61. Features of resort spas
- 62. Blast furnace waste
- 63. Wading bird
- 65. Prolonged English goodbye
- 66. Regional life forms
- 67. Submit again
- 68. Type of cone

DOWN

- 1. Jumped happily
- 2. Debris-laden dark ice band
- 3. Moniker
- 4. Gentle bite

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The long gap between newsletters was in part due to a shortage of news to put in this section. To encourage more regular mailings, everyone should send news to **GORMAN@GEOL.QUEENSU.CA**

Crossword Clues (continued from page 7)

- 5. $CaAl_2Si_2O_8$
- 6. Wrap around
- 7. Erases
- 8. Command Post
- 9. Gaelic beanie
- 10. Tiny French Islands
- 11. Problem car
- 12. Wears away
- 15. Not "Ayes"
- 21. Clastic and chemical
- 1. Mineral from Chilian desert
- 27. Group of joints
- 28. We _____ here!
- 30. Open waste land (Eng)
- 33. Travel info sources
- 35. A Gershwin
- 36. Raced
- 38. Prefix for 3
- 39. Mauna ____
- 42. Ice mass
- 43. Viet Nam offensive
- 44. With notched edge
- 45. Coastal salt flat (Arabia)
- 46. Aussie bird
- 47. Arsenic Sulphide
- 51. Symbol of status
- 53. Tiny Greek letter
- 54. Twixt shale and Phyllite
- 56. Chirpy, cute
- 58. I like ____ kids & candy
- 60. ____ culpa
- 62. Don't stand
- 64. Lung disease
- 66. In witherite

HOMECOMING OCTOBER 3, 4, 5, 2003

DEPARTMENTAL OPEN HOUSE

Once again this year Geology will be hosting an **Open House** in the Reading Room in Bruce Wing beginning at 9 a.m., Saturday, October 4th. If any geotypes can stagger out of bed on Saturday morning, there are always a few profs around in what used to be the library, on the main floor of the Bruce Wing, so wander in for a visit if you have time

REUNION NEWS

Cowboy Stewart is busy organizing the Geoengineers for the upcoming **Science '73 reunion**. A sit-down dinner is in the works for Saturday night after the football game in Ban Righ Hall, and a late breakfast is planned at the Faculty Club Sunday morning.

Janet Sidey and Jane Hughes are at it again! The 15th reunion they organized for the **Class of '83** was such a success, they decided to do it again for the 20th. They have reserved Miller 100A for a get-together on Saturday evening, and plan to repeat the barbecue event. This, it appears, will be followed by a high tech slide show in Miller 105. No mention as yet of a baseball game over in the Park.

Answers to the last Crossword

F	O	L	D	I	N	G		K	Y	A	N	I	T	E
A	V	A	I	L		I	T	E		C	A	L	Y	X
B	O	N	E		F	R	O	T	H		B	O	R	T
R	I	D		D		A	P	T		S		T	O	R
I	D		F	I	S	S	I	L	I	T	Y		L	U
C		O		U	W	O		E	R	R		L		D
S	E	V	E	R	A	L		S	A	U	S	A	G	E
	K	I	L	N					C	A	P	E		
D	E	N	I	A	L	S		P	A	T	R	I	O	T
E		E		L	E	E		A	G	U		S		E
M	A		C	L	O	C	K	W	O	R	K		B	R
O	R	O		Y		T	A	N		E		H	E	R
N	O	R	M		L	I	M	E	D		M	E	S	A
I	S	A	A	C		L	E	E		Y	E	M	E	N
C	E	N	S	U	R	E		S	Y	E	N	I	T	E

Class of '78 - Contact Rob Langridge at rob@igl.kos.net about a 25th anniversary reunion.

If you plan on coming back next year and want to contact classmates to organize something, get in touch with the department. We can probably supply names and addresses for most of your classmates.

WE LIKE HEARING FROM YOU!
 If you have feedback about our Newsletter, the Department, alumni news, or if you would just like to say hi, please contact us at:
dalrymple@geol.queensu.ca
OR
hyde@geol.queensu.ca

WHAT'S BEEN HAPPENING!

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1. FIELD SCHOOL MAY 2003
2. 4TH YEAR TRIP OCT 2002
3. FIELD SCHOOL SCHOOL FINAL DAY GROUP, MAY 2003.
4. NEW NEPTUNE - MULTICollector ICP-MS IN THE QUEEN'S ISOTOPE RESEARCH LAB. L.R. DR. KURT KYSER, PETER STOWE, DON CHIPLEY.
5. DON CHIPLEY WITH NEW ICP-MS IN THE QUEEN'S ISOTOPE RE

3



2



4



5



WHAT'S BEEN HAPPENING!

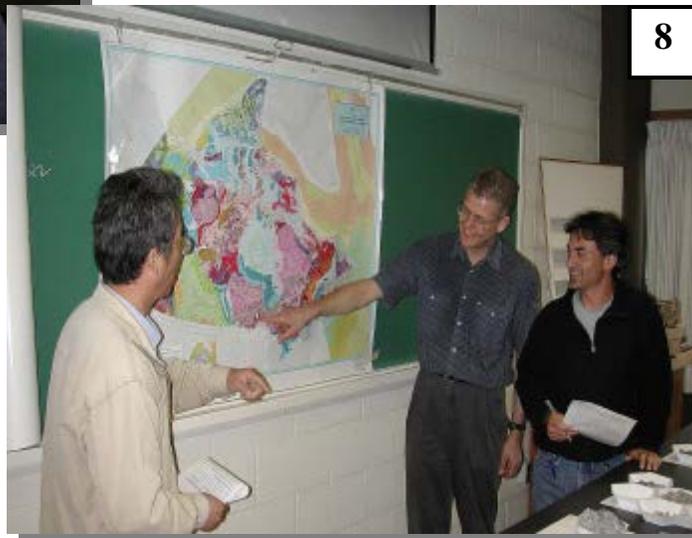
- 6. **KERRY KLASSEN** EXTRACTS OXYGEN FROM SAMPLES WITH A SILICATE EXTRACTION LINE IN THE QUEEN'S ISOTOPE RESEARCH LAB
- 7. **BETH MCLANAGHAN** (CENTRE) AT THE **DIAMOND COURSE** HELD IN THE DEPARTMENT, **MAY 2003**.
- 8. **HARVEY THORLEIFSON** (LEFT) AT THE **DIAMOND COURSE**, **MAY**



6



7



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