



GEOLOGY AT QUEEN'S THE FIRST DECADE

In 1883, Queen's University established both a Department of Geology and a Department of Mineralogy. Three types of degrees were offered: a B.A. (equivalent to the present-day B.Sc.), an M.A. (equivalent to the present-day B.Sc., Honours), and a B.Sc. (equivalent to the present-day B.Sc., Applied Science).

The Reverend James Fowler, Professor of Natural Sciences, had begun teaching Geology a few years earlier; and one student, Martha Boddy of Owen Sound, received a first-class B.A. in Geology, Mineralogy, Histology, and Zoology in 1894. She returned to live in Owen Sound, and probably never had a career as a geologist. It is difficult to identify the department in which B.A. graduates specialized. During the first decade, three B.A. graduates who followed Miss Boddy, John Clark of Powassen (1895), Percy, F. Belfour of Marlbank (1899), and W. G. Dunkley (1902), apparently never had careers in Geology.

It also is difficult to identify the geologists among those who graduated with the M.A. degree during the early years. Some received degrees in Geology, Mineralogy and Chemistry and ended up as chemists, while others received degrees in Geology, Mineralogy, and Biology and ended up as biologists. George A. Guess, who received a M.A. in Mineralogy in 1894, and a Mining Engineering degree in 1895, worked as a Mining Engineer in Washington State, Mexico, and Peru before becoming a Professor of Metallurgy at the University of Toronto. R.C. Hiscock of Kingston, who graduated with an M.A. in Geology in 1895, was the first to follow that degree with an M.D. (Queen's 1900).

The M.A. geologists of the first decade included: Reginald Walter Brock (1895), whose distinguished career is discussed below, James MacIntosh Bell of Almonte (1899), who became Director of the Geological Survey of New Zealand, Alfred Granville Burrows of Napanee (1900) who became Chief Geologist of the Ontario Department of Mines, Lancelot Laurence Bolton of Portland (1903), William Alfred Johnson of Athens (1903), who worked for the Geological Survey of Canada, and Frank A MacDougall of Maxville (1903).

The B.Sc.'s were a bit easier to pick out, as the degree was shown as being in Mineralogy and Geology. The first was Frank George Stevens, of Halifax, N.S., in 1900. Both his son and grandson obtained engineering degrees at Queen's, the latter, Doug Stevens (Ph. D., Col. Sch. of Mines) in geology

in 1958. Stevens was followed by Peter William Currie of Niagara Falls in 1901, and Manley Benson Baker, (B.A., 1900) of Stratford, Ontario. A. G. Burrows, (M.A., 1900) of Napanee, and Lazarus P. Silver of Kingston, all in 1902. In 1903, graduates were Alexander Longwell, (B.A., 1900) and Oswald Norman Scott of Foxboro, Ontario.

During the first decade, Willet Green Miller was the geology professor, and William Nichol the mineralogist. Both have campus buildings named after them. From 1900-1903 they were assisted by two demonstrators, M. B. Baker and A. G. Burrows. Obviously, the number of geology courses available to students was small.

Manley Baker spent over 60 years at Queen's, as a student (1896-1902), a demonstrator (1900-06) a lecturer (1906-09), professor and department head (1909-44), and Museum Curator, (1945-58). As required of all our rockhounds, he was involved in hockey, and the 1909 intercollegiate team he coached won the Canadian championship, then went on to beat Yale, the American champions. His team repeated in 1910 and 1914.

Reginald Brock transferred from Toronto to Queen's in 1893, to study under Miller (and to play hockey, of course). He went to Heidelberg to continue his education, but later returned to Queen's as an Acting Professor (1902-07). He then went to the GSC as Director, but moved to UBC as Dean of Engineering in 1914. With the outbreak of World War I, he joined the Seaforth Highlanders, and served with General Allenby (and presumably with Lawrence of Arabia) in Palestine as an Intelligence Officer, with the rank of Major. Following the war, he returned to UBC as Dean of Engineering. In 1922, he ran the first geological traverse across the island of Viti Levu, Fiji. He was also involved in the mapping of Hongkong between 1922 and 1927. He was a dedicated field man, and a 700 mile traverse from Mattawa to Lac St. Jean lasted long enough for him to become fluent in the local Indian dialect. The University of Hongkong awarded him an honorary doctorate in 1933 to match the one from Queen's he received in 1921. He received many other honours, but his career was cut short when his plane crashed in the B.C. interior in 1935.

It appears that only nine career geologists graduated in the first decade of Queen's geology. Contrast that with the fact that the Department awarded 832 geology degrees in the 1980's made up of 317 B.Sc. Hons., 238 B.Sc. Eng, 144 Masters and 33 Ph.D.s. Our early graduates have contributed a great deal to the prestige of the program at Queen's.

The last survivor of this group, O.N.



Scott, died in Toronto in 1978. One might say the torch has been passed.
W.A. Gorman

NEWS FROM THE DEPARTMENT

Advertised: Tenure-track position for a mineral deposits geologist to replace Bob Mason who retired in 1997. For details see June issue of Geoscience Canada or our departmental web site (<http://geol.queensu.ca>).

Appointed: To Director of the Mineral Exploration M.Sc Program, **Mike Doggett**, Ph.D., Queen's, '94. Mike served as acting director last year, and his enormous efforts helped to revitalize the program.

Arrived: **Gerhard Pratt**, in January, to take up his appointment as our new exploration geophysicist.

Awarded: The David Money Memorial Medal to **Steve Olsen**, M.Sc. (MinEx), Queen's, '97. The medal was established by Falconbridge employees in memory of David Money, M.Sc. (MinEx), '92, and is awarded annually to the best M.Sc. Graduate in Mineral Exploration. Steve is from Australia and was sponsored by WMC Resources.

Awarded: A Killam Fellowship from the Canada Council to **Noel James**, allowing him to pursue his research for two years while his formal teaching duties are taken over by a replacement lecturer. He is preparing for an Ocean Drilling Program leg off the south coast of Australia this Fall.

Awarded: The William E. White Post-Doctoral Fellowship to **James Gehling**. Jim is from Australia and will collaborate with Guy Narbonne on Ediacara biota.

Established: With a donation of \$35,000 from the estate of the late **Rita Viola MacMillan**, a field trip fund, the interest of which is to be used to support our undergraduate field trip program. We hope that this fund will grow as a result of future alumni contributions.

Introduced: By **Guy Narbonne** a course on the History of Life (GEOL-107) that attracted 135 students and received rave reviews. This brings the number of our 100-level courses to four - the others are GEOL-120, The Earth's Physical Environment given by **John Hanes**, GEOL-111, Principles of Geology by **Sandra McBride**, and GEOL-105, Environmental Geology, by **Leigh Smith** and this raises our annual first-year enrolment to more than

800 students.

Invited: **Herb Helmstaedt**, to Japan with a research fellowship of the Japanese Society for the Propagation of Science. Herb spent the month of February at Tokyo Institute of Technology, Nagoya University, and the Geochemistry Research Laboratory at Misasa.

Joined: Our growing group of distinguished adjunct professors, **Jim Franklin** and **Howard Poulsen**, recently retired from their positions as Chief Scientist and Research Scientist, respectively, at the Geologist Survey of Canada. Their short courses on VMS and Gold deposits were well received and hopefully will become an annual event, open also to industry and government geologists.

Renovated: With contributions from the Alma Mater Society and the University, **Room 105**, in Miller Hall, into a modern lecture theatre seating 103 persons.

To be renovated: The space formerly occupied by the Geological Sciences Library into the planned Earth Systems Computer Laboratory, Map Library, Computer (Virtual) Library, and Reading Room (see July 1997 Newsletter). We have established a Renovation Fund for this project and welcome contributions from alumni.

Retired: **Ray Price**, from the University portion of his distinguished career, to become an Emeritus Professor. He will continue his research and be active in supporting our Geological Engineering Program. Ray's contributions and awards could fill several Newsletters. His latest international honours include the election to Fellow of the American Association for the Advancement of Science, a rare honour for a Canadian, the receipt of the Michael T. Halbouty Human Needs Award from the American Association of Petroleum Geologists, and an invitation as 1998 Buwalda Lecturer to the Geological and Planetary Sciences Divisions of Caltech. The Department will hold a Dinner at the University Club on September 25th to honour him and **Brian Mackenzie** (see below). Plans are under discussion to pay further tribute to Ray's scientific achievements, and we will keep you informed.

Retired early: **Brian Mackenzie**, world-renowned



mineral economist, has taken up early retirement as of this August. Brian held a half-time position in the Department after the closure of the Centre for Resource Studies two years earlier. Brian also intends to remain active in research and consulting, and we are very happy that he plans to continue his annual Mineral Economics Seminar for Industry and our Mineral Exploration M.Sc. Class. His teaching duties will be taken over by **Mike Doggett**

FIND THE FOUNDERS PUZZLE

by W.A. Gorman

Cross out the names of the professors currently teaching at geology at Queens. Some letters are used in two or more names. The 11 letters not used will spell out the names of the guys who started it all. A start has been made for you with the striking out of our glorious leader. If you need more help and you have access to the internet, our home page is at www.geol.queensu.ca.

T	D	E	A	T	S	M	L	E	H	M	R
T	T	I	D	A	L	R	Y	M	P	L	E
E	L	A	A	L	N	A	M	R	O	G	M
G	C	A	R	M	I	C	H	A	E	L	E
G	N	E	C	P	E	T	E	R	S	O	N
O	O	N	H	E	S	E	N	A	H	R	D
D	S	E	I	A	D	S	E	M	A	J	A
C	E	D	B	R	&	I	R	E	S	Y	K
L	I	G	A	C	N	P	R	I	C	E	I
A	M	I	L	E	N	N	O	B	R	A	N
R	A	R	D	I	X	O	N	C	C	O	L
K	J	N	O	S	M	O	H	T	I	M	S

ALUMNI UPDATES

1931

Homer Franklin Zurbrigg, B.Sc., M.Sc., '33, who retired as Vice-President of INCO in 1974, is now living in Islington, Ont.

1933

Paul Émile Auger, O.C., FRSC, B.Sc., D.Sc., MIT, is living in Quebec City. He is a former Professor of Economic, Structural and Engineering Geology at Laval, a former Wing Commander in the RCAF, and a Past-President of the GAC and the CIMM. He was Deputy Minister of Mines and Natural Resources in Quebec from 1950 to 1971, when he became President and General Manager of The Molybdenite Corporation. He is currently a Director of Minnova Mines and of La Société Minière MSV Inc.

Robert C. Hart, B.Sc., finally gave up working as a consultant in 1990, and has retired to Waterloo, Ont.

1946

H. Douglas McLeod, B.Sc., worked in mineral exploration across Canada until 1981, and continued part-time till 1989. He now lives in North Bay.

1948

Jack Ross, B.Sc., M.A.Sc., Toronto, '49, is now living in Toronto.

1950

Keith Sifton Knox, B.Sc., M.Sc., U.W.O., '52, retired in 1983 after 30 years with Gulf Oil Canada. He is now



living in Calgary.

1952

Barry Scott, M.Sc., Ph.D., Imperial College, London, now living in Gerrards Cross, Bucks, England, has been working in Australia, Canada, Europe, and Turkey, and is still at it.

1953

Gilles Allard, M.A., Ph.D., Johns Hopkins, '56, Professor Emeritus, University of Georgia, is Vice-President, McKenzie Bay Resources, a company that plans to start production of vanadium at their mine in the Chibougamau area in 2001, making it the only vanadium mine in North America. Dr. Allard made the initial discovery in 1966.

1957

Bob Dagenais, B.A. (Hon), M.B.A., U.W.O., '61, has spent most of the last 35 years in California, where he is Marketing Manager for Temcor, an architectural products firm.

1958

Art Grunder, B.Sc. (Eng), MBA, Western, '60, recently retired in Toronto after 31 years with MacMillan-Bloedel.

1959

Chris Armstrong, B.Sc. (Eng), M.A.Sc., U.B.C., '68, of Ladner, B. C., owns and operates Marland Enterprises, which designs and manufactures specialized mining equipment.

Jim Collins, B.Sc. (Hon), has retired from the salt mines of Goderich, Ont.

Richard Somerville, B.A., B.Sc. (Hon), '62, is CEO of Claimstaker Resources, Vancouver. His home is on Saltspring Island.

1960

David W. Devenny, B.Sc. (Eng), M.E., Purdue, '63, Ph.D., Purdue, '75, has been President of both the Canadian Geotechnical Society (1984-86) and APEGGA (1994-95). Honours include the Gulf CEO Award, the L.C.Charlesworth Award, Honourary Life Membership in APEGGA, and the Karl A. Clark Distinguished Service Award for Contributions to Development of Alberta Oil Sands. He has also been appointed Fellow of the Engineering Institute of Canada and the Canadian Academy of Engineering.

1961

Bill Simmons, B.Sc., (Eng), MBA, Cornell, '65. He retired from Conoco in 1994, and since 1996 has been President, First International Oil Corp., with extensive holdings in Kazakstan.

Jack Bell, B.Sc. (Hon), M.Ed., Ottawa, '72 retired as Principal of the high school in Pembroke, and is the Justice of the Peace, Presiding, in Pembroke.

1962

Don Cook, B.Sc. (Eng), M.Sc., '65, Ph.D., '67, is retiring from the GSC in Calgary. He summers in his old stamping grounds near Dryden, Ont., and winters at the GSC in Calgary as an emeritus scientist.

1963

Arnie Pederson, B.Sc. (Eng), is located in Brandon where he is a Groundwater Engineer with the Manitoba Water Services Board.

1966

Ted Glenn, B.Sc. (Eng), M.S., Berkeley, '69. Ph.D., Utah, '72, has been with Chevron in Calgary for 9 years, after a barnstorming career around the States and even a spell in far-off Australia.

1969

Graham Cuddy, B.Sc. (Hon), M.Sc., MacMaster, '71, Ph.D., U. of New England, Australia, '77, is a Research Associate at Syncrude Canada in Edmonton.

1970

Grant Anderson, B.Sc. (Eng), President, Gartner Lee Ltd., has returned to the Head Office in Markham after working for several years on terrain evaluation in Malaysia.

John Hayles, B.Sc. (Eng), M.A.Sc., U.B.C., '73, of Beausejour, Man., is an AECL geophysicist involved in the Nucleur Fuel Waste Management Program.



Tony Suprum, B.Sc. (Eng), MPA, '84, in having great success in the investment business, back in his own home town of Simcoe, Ont.

Rick Worsfold, B.Sc. (Eng), M.A., Carleton, '77, M.Eng., Memorial, 1981, Dip. Bus. Admin, Wilfred Laurier, '93, is now with CRESTECH in Toronto.

1971

Cam Dawes, B.Sc. (Hon), M.Sc., '73, is Vice-President, Exploration, Blue Range Resource Corp., Calgary.

1972

Dave Stringer, B.Sc. (Eng), is a self-employed consultant in Whitby, Ont., specializing in Project Management and Controls.

Doug Vandine, B.Sc. (Eng), M.Sc., Civil, Queen's, '75, with his own firm in Victoria, is juggling work and a myriad of other interests.

1973

Peter J. Walls, B.Sc. (Eng), M.Sc., Civil, Queen's, '74, is with an environmental engineering firm in Greenville, South Carolina.

John E. Callahan, Ph.D., has been teaching at Appalachian State in Boone, North Carolina, for 28 years, and last year received the Distinguished Service Award for Science Education from the North Carolina Science Teachers Association. He is researching mercury pollution in gold mining areas in the American Southeast.

Ted Rannie, B.Sc. (Hon), M.Sc., Waterloo, '81, operates Middle Earth Hydrogeology, Inc., in Toronto.

1974

Michael A Birch, B.Sc. (Eng), MBA, Oklahoma City U., '82, is President of Lyn Petroleum, Inc. of Oklahoma City. He discovered three oil and gas fields in adjacent areas of Texas.

1975

Christopher P. Brett, B.Sc. (Hon), LL.B., Queen's, '80, of Gloucester, Ont., is a trade mark agent/lawyer, specializing in trade mark law.

1976

Allan Clark, B.Sc. (Hon), MBA, Queen's, '78, after 18 years with NRC, was appointed Director of Frontier Lands Management Division, responsible for federal interests in offshore oil and gas developments.

1977

Steve Morison, B.Sc., (Hon), M.Sc., Alberta, left a government job in the far north a few years ago, and is presently a Senior Geoscientist/Manager with Gartner Lee Ltd.

1978

Judy Patterson, B.Sc. (Hon), M.Sc., Calgary, '81, Ph.D., Virginia Polytechnic Institute, '87, was recently awarded tenure and promoted to Associate Professor at Concordia in Montreal, teaching and researching environmental geology.

Kathy (Scales) Lapointe, who reports her age as 24, has completed 20 years with Petro-Canada in Calgary. She was recently elected Vice President of CSPG.

1979

Neil Stalport, B.Sc. (Hon), LL.B., Dalhousie, '90, is a manager for Insight Information Inc., in Calgary.

Gordon Keep, B.Sc. (Hon), MBA, U.B.C., '83, is Sr. Vice-President, Lions Gate Entertainment Corp., and Vice President, Corporate Finance, Natural Resources Group, Yorkton Securities, in Vancouver.

1981

Pierre Doucet, B.Sc. (Hon), M.Sc., Dalhousie, '83, is working for the Ministère des Ressources Naturelles in Quebec City, and working on a Ph.D. at La Université de Québec à Chicoutimi.

1983

Janet Sidey, B.Sc. (Hon), in Gloucester, Ont., and **Jane Hughes**, B.A., in Jolly Old England, are working to make the **Class of '83 Reunion**, the biggest and best in at least 40 years.

Mark Thomas, B.Sc. (Hon), B.Ed., Toronto, '86, is teaching at Notre Dame College, Welland, Ont.

Jim Bronson, B.Sc. (Hon), MBA, York, '89, of Orangeville, Ont., is working as Production Manager, Shaw Industries, Rexdale.

1984

David Eaton, B.Sc. (Hon), M.Sc., '88, Ph.D., Calgary, '92, is now an Assistant Professor in Geophysics at



the University of Western Ontario.

1985

Adrian Ruiter, B.Sc. (Hon), presently living in California, works as a geophysicist with Chevron International on offshore exploration in Angola.

Connie Cudrak, B.Sc. (Hon), M.Sc., U.B.C., '88, B.Sc., Ecology, Calgary, '97, worked as a geophysicist for Shell Canada for 7 years, including 3 in the Netherlands.

1986

Griff Murphy B.Sc. (Eng), and **Anne Raymond**, B.Sc. (Eng), '87, both obtained MBA's in England. After spending some time in India, they returned to London, where they joined LASMO, Anne working in exploration and Griff in corporate development.

1988

Elizabeth (Thompson) Smart, B.Sc. (Hon), '88, MBA, '90, CMA Designation, '94, works in Mississauga for Xomed Canada Ltd. In 1992, she married **Phil Smart**, B.Sc. (Hon), '88, M.Sc., who works for Hunter and Associates, also in Mississauga. They make their home in Brampton.

Friedrich Speidel, M.Sc., is senior project geologist with a Costa Rican subsidiary of Inmet Mining, responsible for gold exploration in Central America and the Caribbean.

Tom Hoefler, M.Sc., B.Sc.(Hon), Sask., was Manager, NWT Chamber of Mines for 6 years, then went south to Highland Valley Copper (near Kamloops), then back to Yellowknife with Diavik Diamond Mines, which could become Canada's second diamond mine.

1989

Greg Soule, B.Sc. (Hon.), M.Sc., Calgary, has left Amoco to become a senior geologist with Rigel Energy. Last fall he gave a paper on the structural style of the Sierra Madre Oriental, Mexico, to the Structural Division of the CSPG

Beth McClenaghan, M.Sc., is now a research scientist with the GSC in Ottawa.

1990

Rick Atkinson, B.Sc. (Hon), MBA, York, '92, is in Richmond Hill, and has been a buyer for Business Depot for 5 1/2 years.

Andy Williams, B.Sc. (Eng), is Sr. geophysicist with Wascana Energy in Calgary.

Norm Begin, Ph.D., spent 4 years in research at Calgary, and 2 years in exploration in the NWT, before joining Talisman Energy in 1996. He heads the Structural Division of the CSPG.

1991

Jill (Bailey) Agnew, B.Sc. (Hon), B.Ed., Calgary, '94, is married to Mike Agnew, Mining '91, and is home on maternity leave. They live in Wabush, Newfoundland.

Brent Wignall, B.Sc. (Hon), M.Sc., Alberta, '95; received a "Volunteer Award" in 1997 for significant service to the CSPG.

1992

Gwyn Graham, B.Sc. (Hon), M.Sc., Waterloo, '97, now a Hydrogeologist working for Golder in Vancouver, spent a year in Costa Rica researching ground water quality.

1993

Heather Mace, B.Sc. (Hon), B.Ed., Queen's, '94, returns to Canada in June, '98, after teaching in Bahrain for two years, and exploring the Middle East.

Tom Boreen, Ph.D., was the CSPG Visiting Lecturer in 1998. He presented a talk on Australian Cool Water Carbonates at five Canadian Universities. He also won a CSPG Service award for 1997.

1994

Rob Scammell, Ph.D., spent a year as an NESRC fellow with the GSC in Ottawa before joining Amoco in Calgary. He has just accepted a new position as exploration geologist with Poco Petroleum Ltd.

1995

Peter Sutton, B. Sc. (Eng), is working in environmental assessment and remedial programs for Aqua Terre in Toronto.

Terence Miranda, B.Sc. (Eng), has left the oil industry, and will be starting an M.Sc. in Audiology at U.B.C. in the Fall.



1996

Maurice Colpron, Ph.D., has moved to the Yukon Geology Program in Whitehorse from the NWT Resources, Wildlife and Economic Development Program in Yellowknife.

1997

Jason Crowder, B.Sc. (Eng), has left U.B.C. and will be starting a Masters program at Toronto this fall.

Clark Damer, M.Sc., is a project geologist with BHP Minerals in Vancouver.

Marion Warren, Ph.D., has joined PanCanadian Petroleum in Calgary.



ALUMNI UPDATE

Would you please help us to maintain an accurate location and mailing list by completing this questionnaire if your "coordinates" have changed:

NAME: **Queen's Degree(s) and Year (s)**

HOME ADDRESS: **Telephone:**
Fax:
E-mail:

Business Address: **Telephone:**
Fax:
E-mail:

Degrees since leaving Queen's:

Please use the space below (or an attached page) to add any news that we can pass on to other Queen's Geological Sciences alumni ?

Please reply to:

Dianne Hyde **Tel: (613) 545-2596**
Departmental Assistant **Fax: (613) 545-6592**
Dept. Geol. Sciences **E-mail: hydekelc@geol.queensu.ca**
Queen's University
Kingston, ON K7L 3N6