geode

May 1992 Volume 1, Number 2

The ADM's Column

Tour d'Horizon

April 14th was our 150th anniversary and consequently, it is my pleasure to congratulate all of you on this extraordinary birthday. Of particular note were the events scheduled for the week of April 14 such as: the commemorative ceremony and the official opening of the new Logan Hall Museum at 601 Booth Street, Ottawa; a Gala evening at the Museum of Nature in Ottawa; the opening of an exhibit on Logan and his legacy at the Musée du Séminaire in Québec; a film presentation and a staff barbecue in Calgary; and the GSC/EMR Open House in Ottawa. I encourage you to participate fully in the many forthcoming 150th events, these are once-in-a-lifetime celebrations. The GSC's past was colourful and significant, and we can look forward to a future as the best Geological Survey in the world!

Local heroes: This month's local heroes are the staff from the ISPG and AGC who made the Calgary Oil and Gas Forum, March 2 and 3, a success. Once again quality was the hallmark of our presentations and posters and this was mentioned to me by many of the industry geologists present. Special thanks to Sebastian Bell who organized the event.

Oil & Gas Forum: The Forum commenced with a speech by Minister Jake Epp, recounting the history of the GSC and how the Survey had opened up western Canada and played a key role in building Canada as a nation. Minister Epp spoke with passion about Canada as a unified country, and several people used the term " inspirational " in describing his talk.

For me, the high point of the Forum was being able to meet with the media to discuss Husky Oil's gift to the Survey's Atlantic Geoscience Centre of all of their frontier seismic information, valued in excess of $100 million. I made a plea to industry representatives present to donate further unused data bases or collections of information to the GSC, rather than having this information become lost or languish in dead storage as their exploration objectives change.

The low point of the Forum, was viewing the depressed state of the oil patch. Many friends, including former students and colleagues, have been laid off, and these are in many cases, young geologists in mid-career. The loss of trained manpower and skills to Canada is enormous, because these job losses are most certainly permanent. Perhaps GSC staff should reflect that although budgets are tight and conference travel is limited, we are still employed, able to feed our families, and can contribute to Canada while practising the science we enjoy so much.

GSC: 150 Years of Nation Building

By Charles Smith
150th Anniversary Co-ordination Office

In September 1841, the Legislature of the Province of Canada voted a sum not exceeding 1500 pounds sterling to create the following year, the Geological Survey of the Province of Canada. William E. Logan, a geologist born in Montreal and educated in Scotland, was appointed director of the Survey on April 14, 1842. Logan, a practical man with a background that included mining and metallurgy as well as geology, laid the foundation for the Survey and set its course for exploration on the national mineral base. Logan's work achieved international recognition for Canada's resource potential. It brought him personal honour and fame, including a knighthood and many medals. Numerous geographic features bear his name, including Canada's highest mountain, Mount Logan.

Over its 150 years of history, the Geological Survey of Canada has won much well-earned praise and respect for its many achievements. The GSC has been the driving force behind the geological mapping of Canada's nearly 10 million square kilometres of land and freshwater lakes, and more than 6 million square kilome-

The Freeze: Treasury Board applied its freeze to save dollars by reducing year end spending and this certainly affected the GSC. Only a few weeks before the freeze, the Survey had been allocated an extra $1.2 million from the Deputy Minister's reserve to strengthen our programs. Unfortunately there was insufficient time to use all of these resources before the freeze came into effect. The freeze only allowed O&M spending for essential projects as well as training and it froze capital spending on any program enhancements. Travel until the end of the fiscal year was reduced by half. This caused serious cuts in conference attendance and meant that some GSC staff attending our Oil and Gas Forum in Calgary had to double up in manning posters.

By the time the next issue of *Geode* is printed, the 1992/93 budget situation will be clear. At present we know that there will be a three per cent cut in O&M dollars, a modest reduction in manpower resources, and some restraint on foreign travel.

Ken Babcock

tres of continental margins and coastal boundaries. The names of pioneering geologists like Selwyn, Dawson, Tyrrell, Low, Camsell, and others mark the Canadian landscape. In its early years, the GSC studied more than just geology. Staff members studied and documented geography, topography, plants, animals, birds, archaeology, and aboriginal people. Their work served to open up, to a significant extent, important parts of Canada to mining development and settlement.

The Survey's research into the genesis of mineral deposits; the accurate, knowledgeable, and impartial advice of its staff; and the published reports and maps of the geology of districts or of particular mineral commodities, have contributed inestimably to the development of major mining districts. It has raised the standards of exploration by training many scientists, engineers, and managers in the industry.

In 1992, we must recognize our prestigious heritage and contemplate the new challenges that lie ahead of us.

Reproduced with modifications from PDAC Digest, winter 1991-92.

PHOTO

Sir William Logan in his office at the GSC in Montreal.

Energy, Mines and Resources Canada Énergie, Mines et Ressources Canada

Editorial

I am glad to say that the first issue of *Geode*, the GSC newsletter, seems to have been well received by staff. Some of you pointed out there was too much blank space within the body of text, and that there were some typographical errors. Well, that was our first issue, and we definitely intend to improve! *Geode,* like our organization, is striving for excellence and quality!

In this second issue, you will see that some new columns have been added. *Geode* is starting to have a better idea of what it is aiming for. Its goals are somewhere along the lines of "Information for all" and "Chronicle of the employees and their work". An organization like the GSC must document its life and activities.

I thank those who have made contributions to *Geode*; your help with our newsletter is greatly appreciated. I hope that more of you will send in material so *Geode* can achieve its objective of being truly representative of the Survey.

And one last thing: "Happy Birthday GSC!"

Kateri Marchand

Canada Post Special Stamp Issue

To commemorate the 150th anniversary of the Geological Survey of Canada, Canada Post will issue five stamps on minerals. The stamps will be released at a ceremony in Whitehorse in September 1992. The five minerals to be pictured on the stamps are gold, copper, galena, grossularite, and sodalite.

Canada Post also invited GSC to participate in their eleventh World Philatelic Youth Exhibition in Montreal. This five-day event, which started on March 25, was opened by the Governor-General. The GSC had a display of mineral samples and educational material at the exhibition.

GSC at Winterlude in Ottawa

As part of events to commemorate its 150th Anniversary, the GSC took part in Winterlude, Ottawa's winter carnival. The GSC's travelling exhibit on geology, "Earthly Riddles", was set up for display at the main Winterlude site, and Polar Continental Shelf Project put up an Arctic winter field camp on the grounds of the Museum of Nature. The camp featured PCSP's Weathertrac satellite weather monitoring system, a ham radio operation, and videos on Arctic science activities and survival techniques. There was also an opportunity for an overnight stay at the camp. GSC activities attracted many visitors including Ontario Premier Bob Rae and his family who spent considerable time at the "Earthly Riddles" exhibit.

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Because *Geode* is an informal sector newsletter, it should not be quoted or cited as a publication. *Geode* is not available for distribution outside the Geological Survey of Canada.

A New GSC Library

By *Marielle Doyon*
GSC Library Services

Yes! at last, the libraries at 601 Booth have undergone some extensive renovations. The renovations took place from March to April at the Main Library, and from February to April at the Map Library.

In the Main Library, we have installed mobile shelving. This new system will:

- increase the linear feet of shelving by 19 per cent;

- re-design the user space so that it will be more functional and result in twice the floor area;

- provide space to design five new offices for Library staff.

In the Map Library area (room G70), practically everything has been re-designed. A mobile shelving system was also installed to help reduce the space occupied by the book collection, and to make more space for the map collection. This allows for storage of maps in appropriate map cabinets. User space has also been increased, and has become more functional. In months to come, the Map Library plans to acquire new computer equipment to allow for more automatic services, especially regarding access to digital maps. The renovations to room G70 also included moving the Photo Library into a designated space at the back of room G70.

We plan to organize a celebration to mark the re-opening of the Main Library and Map Library. All users, colleagues and their families will be invited to celebrate the successful completion of this project with us!

Read All About It!

The Survey is making news. Keep an eye out for feature articles in *GSA Today* (March issue), *Maclean's* (mid-April), and *Canadian Geographic* (May-June issue).b

History of Geophysics and the GSC

By *Mike Berry*
Geophysics Division

Did you know that some studies of geophysics in Canada predate the founding of the GSC in 1842? Government involvement in geophysics dates from 1839 when a magnetic observatory was established on the campus of the University of Toronto by Lieutenant Charles James Buchanan Riddell. This was one of a number of stations set up throughout the Empire by the British government to better understand fluctuations in the Earth's magnetic field.

In a reversal of normal practice, the Toronto Magnetic Observatory served as a nucleus for a weather service, which grew into the Meteorological Service of Canada, a major player in Canadian geophysics. In 1898, the Magnetic Observatory moved to Agincourt and then became the Canadian standard station. Seismograph stations were also established at Toronto (1897) and Victoria (1898), and a second standard magnetic station was installed at Meanook, Alberta (1916) in connection with the second Polar Year.

A second, rival organization named the Dominion Observatory, was created in 1867. With Confederation, vast areas of western Canada had become available for colonization and these lands had to be surveyed. Astronomy, necessary for the establishment of latitudes and longitudes, played a major part in the work. By the turn of the century, a small but competent group of astronomers existed in the office of the Surveyor General. In 1905, the government recognized the importance of astronomy by establishing the Dominion Observatory in Ottawa. Its primary responsibilities were astrophysics, positional astronomy, time service and, from the beginning, solid-earth geophysics.

The second director, as well as co-founder of the Observatory, Otto J. Klotz, established the sections of Terrestrial Magnetism, Gravity, and Seismology. Magnetic and gravity surveys of Canada's landmass were begun and seismograph stations were established in Ottawa, Halifax, and Saskatoon. These sections grew rapidly until, by mid-century, they had outgrown the astronomical activities of the Branch.

The structure of the Dominion Observatory underwent many changes over the years: in 1936 the magnetic and seismological responsibilities of the Meteorological Service were transferred to the Observatory; in 1970, government astronomy was consolidated in the National Research Council of Canada and the Dominion Observatory then became the Earth Physics Branch; in 1986, the Earth Physics Branch was amalgamated with the Geological Survey of Canada. Thus the Earth Physics Branch programs joined airborne magnetics and radiometrics, exploration geophysics, and borehole geophysics programs already established by the GSC. By this process of amalgamation, the GSC is the heir of all the geophysical threads that have gone before, and the programs established by Klotz continue to be major thrusts in the Survey's geophysical program.

GSC 150th Anniversary Events

Glenbow Museum Exhibit

Location: Calgary

Date: May to October 1992

A major six month exhibit will open on May 2, 1992 at the Glenbow Museum in Calgary. The exhibit is under the supervision of **John McIsaac** of ISPG, and all personnel of ISPG and their families will be invited to the public opening. The exhibit will consist of a series of displays that depict the history and activities of the GSC in Canada. For example, a push button will illuminate Dawson's traverses across the west on a map of Canada. Another button will highlight Low's famous Arctic voyage in the Neptune. Yet another display will feature a model airplane that will flit across the showcase and reveal a magnetic anomaly. A series of public lectures are also scheduled during the six month period and will feature popular science lecturers such as **Alan Morgan, Robin Riddihough,** and **Grant Mossup.**

Historical Plaque at 541 Sussex

Location: Ottawa

Date: May 6, 1992

Official ceremony to place an historical plaque on the first home of the GSC in Ottawa, at 541 Sussex Drive. This event is organized by the GSC 150th Anniversary Co-ordination Office, and involves the participation of the Governor General Ramon Hnatyshyn, Parks Canada, and the National Capital Commission.

GSC Bike Tour

Location: Ottawa

Date: May 30, 1992

A two-hour, easy and fun tour that will follow the bike path circuit around Ottawa (Rideau canal, Dow's Lake, Experimental Farm, west to Transitway, Ottawa River, and return to canal). The organizers for this event are **Dave Sharp** and **Rod Klassen.**

Sir William Logan Wants YOU !

By *Christy Vodden*
GSC Communications

The 150th anniversary provides a wonderful opportunity to let the world know more about the Survey and the contributions it has made to the mineral exploration and development of Canada. If you have any ideas about making outside groups more aware of the Survey, the Communications Office would be happy to help you. We can provide you with the following promotional materials, all suitable for the general public.

- *No Stone Unturned*: a short history of the Survey.
- *Geos*: the winter/spring issue looks at the achievements of the Survey over the past century-and-a-half and some of the hottest new research areas.
- Decals and buttons with the anniversary logo.
- A single page mini-history of the Survey reprinted from the latest *Canada Year Book.*

Contact Betty Birtch in Ottawa at (613) 995-4261 or your regional anniversary co-ordinator.

Cordilleran Roundup '92 - A Look Behind the Scene

The staff from the Cordilleran Division thanks **Zdena Svitek,** who acted for the first time as the program co-ordinator for the Cordilleran Geology & Exploration Roundup, January 28-31, in Vancouver. This was quite a task, as the GSC was one of the co-sponsors along with the British Columbia and Yukon Chamber of Mines, the provincial Ministry of Energy, Mines and Petroleum Resources, and the Department of Indian Affairs and Northern Development. The Roundup ranks second only to the Prospectors and Developers Asssociation Convention in Toronto, and this year some 1600 members of the western mining community attended the meeting.

Planning And Integrated Management System (PIMS)

By Peter Forster and Jeff Stapledon
Program Planning and Coordination Division

In spring 1991, at the request of the GSC Executive Committee, we carried out a study to determine the requirements for a GSC information system. The study identified the need for a system capable of providing timely and accurate information on projects and operations for past, current, and future years. The system had to be sufficiently flexible to accommodate the diverse information requirements of GSC staff.

In January 1992, in response to the study, and after careful consideration, the Planning and Integrated Management System (PIMS) was acquired by the GSC. PIMS, developed by a Canadian company, is particularly suited to government research organizations. In fact, PIMS was purchased by Forestry Canada last year and is now operating in all of its regional offices. Initial response from the scientific community has been quite positive. PIMS is currently being modified to meet the specific needs of the GSC with delivery of the software expected by the beginning of the new fiscal year.

PIMS is a bilingual, integrated planning system that operates on the premise of "one stop shopping". In other words, all information required by a manager whether at the project, division, branch, or sector level, will be contained in PIMS. PIMS will track project information (objectives, outputs, financial resources, etc.), annual plan information, and personnel information. After installation, conference attendance and training plans will be added.

Le Terminologue

By *Marie-Josée Goulet*
Official languages co-ordinator

« Scientifique » ou « Scientiste »

« Scientifique » (fém. et masc.)
Personne qui fait des recherches scientifiques.

« Scientiste » (fém. et masc.)
Personne qui prétend résoudre les problèmes philosophiques par la science.

« Chercheur » ou « Rechercheur »

« Chercheur » (fém.: chercheuse)
Personne qui fait des recherches scientifiques.

« Rechercheur »
Ce mot n'existe pas en français.

OBSERVATION

Nous avons donc à la Commission géologique beaucoup de **chercheurs** et de **scientifiques**, mais aucun scientiste et encore moins de rechercheurs !

Retirements

John Wall
John Wall, who was ISPG's expert on Mesozoic foraminifera, retired on March 31, 1992. On graduating from the University of New Brunswick in 1945, he worked until 1951 with Imperial Oil. After his MSc from the University of Alberta in 1951, he went to University of Missouri and completed his PhD in 1958, while working as a research officer with the Alberta Research Council (ARC). From 1955-1974, John worked at the ARC where he was involved with the micropalaeontology and biostratigraphy of Mesozoic rocks in the Alberta Basin. John moved to the GSC in 1974 to undertake new challenges in the Arctic Islands and elsewhere. In the past 18 years, he has completed the biostratigraphy for Jurassic and Cretaceous units in the Arctic Archipelago and the western provinces. His extensive publications will be used for many years. John has served on the Canadian Society of Petroleum Geologists, the Geological Association of Canada, Sigma Xi and the Edmonton Geological Society, and has been editor with the *Journal of Foraminiferal Research* and the 1972 International Geological Congress. He also lectured on micropalaeontology at the University of Alberta for 12 years.

Source: *The Pterosaur*, ISPG Newsletter

New GSC Employees

Beth McClenaghan

Beth joined Terrain Sciences in June 1991. Before moving to Ottawa, she completed a BSc in geology at Queen's University, and worked for the Ontario Geological Survey for three years on a till geochemistry/drift prospecting project (BRIM) in northeastern Ontario. Beth will be leading two projects in the Canada-Northern Ontario Development Agreement: an overburden drilling/drift geochemistry project in the Kirkland Lake area, and a geoscience data compilation for the Timmins area.

Andrew J. Moore

Andrew started at Terrain Sciences in November 1992. He received his BSc in geography from McGill University in 1986, and then worked for four years at the Centre for Land and Biological Resource

Research, Agriculture Canada, within the Canadian Soil Information System (CanSIS). He specializes in the design and maintenance of spacial databases and their application within a geographic information system (GIS).

Marten Douma

Marten joined Terrain Sciences in December 1991 after three years as a marine geologist and geophysicist with a Nova Scotia consulting firm. Before that, he worked on his MSc and was a research assistant at the Centre for Marine Geology at Dalhousie University, specializing in the Quaternary history of the Scotian Shelf and Sable Island.

Isabelle McMartin

Isabelle joined Terrain Sciences in July 1991. She completed a BSc in engineering geology (Laval) in 1988 and an MSc in Quaternary geology (Université du Québec à Montreal) in 1991. Isabelle was involved in several Quaternary field projects, including a surficial mapping project in the Bluenose Lake area, N.W.T. and is now responsible for Quaternary geology investigations within the NATMAP Shield Margin Project in Manitoba-Saskatchewan. Digital compilation of exploration till geochemistry and Quaternary geology studies related to mineral exploration, and environmental geology

are her research interests and current activities.

Michael A. Hamilton

Mike began as a Visiting Fellow in late January 1992 in the Continental Geoscience Division. He has an Honours BSc from McGill University, and worked with

Hewitt Bostock for the GSC in 1980. He completed an MSc and PhD with Tony Morse, at the University of Massachusetts, on the petrology and geochemistry of anorthosites in coastal Labrador. In 1990-91, Mike was a Predoctoral Fellow at the Department of Terrestrial Magnetism, Carnegie Institution of Washington, where he studied Nd, Sr, and Pb isotope geochemistry. His current research is on the geochemistry, age, and petrology of the Mugford Group in northern Labrador. Mike will also continue to do research on the Nain Complex cumulate rocks with Ron Emslie.

About People

Alan J. Heginbottom
Alan returned to Terrain Sciences in February 1992 after serving for two years as Executive Assistant to John Scott, the Director General of the former Sedimentary and Cordilleran Geology Branch. Alan is presently working on a circumpolar map of permafrost and frozen ground in association with colleagues in the U.S.A. and Russia.

Bonnie Rankin
Bonnie Rankin is now A/Manager, Sector Administrative Services, while Yvon Claude is on secondment to the Finance and Administration Sector. Bonnie was previously with the Minerals and Continental Geoscience Branch where she spent two years as Branch Administrative Officer and three years as Administrative Officer for the Mineral Resources Division. Prior to that, she was with Surveys, Mapping and Remote Sensing for 13 years, carrying out various administrative and financial tasks.

David I. Ross
After three and a half years as Director, Atlantic Geoscience Centre, David Ross has resigned to take up a position as CEO of the National Institute of the Geosphere in New Zealand. This newly created institute incorporates the N.Z. Geological Survey, Geophysical Observatories, Engineering Seismology Group, and Nuclear Science Institute under a single Crown-owned corporate body. Dave will start his new job in New Zealand after Easter.

Alan Green
Alan left the Continental Geoscience Division at the end of December 1991 for a post at ETH-Hönggerberg, Swiss Federal Institute of Technology in Zurich, Switzerland.

Alan Jones, Richard Gibb, and Sherry Srivastava
Alan Jones (Continental Geoscience Division), Richard Gibb (Geophysics Division), and Sherry Srivastava (Atlantic Geoscience Centre) have been recently appointed as Associate editors of the *Journal of Geophysical Research - Earth Science* published by the American Geophysical Union.

Summaries From the Weekly Status Report for the Deputy Minister

GSC News in Brief

- In 1972, the GSC carried out a major geochemical reconnaissance in the Northwest Territories collecting samples from a 36 000 square mile area north of Yellowknife in the Bear and Slave provinces. The results have been widely used for base metal and gold exploration, and more recently for diamond exploration. Diamond-bearing kimberlites typically contain high levels of nickel and chromium. The 1972 survey data showed anomalous levels of these metals near the sites of important newly discovered diamond-bearing kimberlites near Lac de Gras by Dia Met Minerals and BHP-Utah. This has resulted in a recent staking rush, and Monopros, DeBeers subsidiary in Canada, is a major player in the area.

- **Jean Pilon** (TSD) represented the Canadian Space Agency (CSA) at a meeting with Centre national d'études spatiales (CNES) in November 1991 in Paris. This meeting defined the basic scientific goals for Mars Rover missions until 1998. There is a potential for Canadian participation in the French-Russian Mars expedition in 1996 and in the French expedition in 1998. CSA decided on December 13, 1991, to fund feasibility studies for the use in space of a Pulse Ekko IV ground penetrating radar and a SCINTREX CG-3 Autograv, an automated gravity meter. Contracts for $25K each have been signed with Sensor & Software Inc. and SCINTREX. Jean Pilon and **Pierre Keating** (GD) will act as scientific authorities on these contracts.

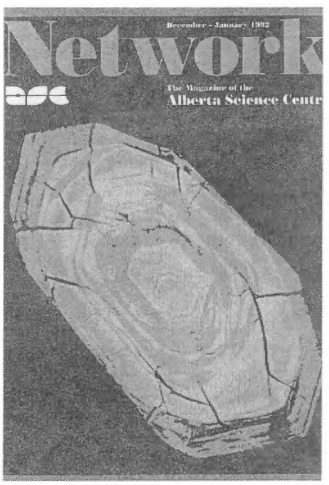
- Over the past three years, **Cindy Riediger** has studied Lower Jurassic Nordegg shales in northern Alberta and northeastern British Columbia. Her studies, funded by ISPG, formed part of her recent PhD thesis at the University of Waterloo. Her work indicated that oil occurs at many locations in the Nordegg shales and that it can be recovered economically with horizontal drilling. Meridian Oil of Colorado, a company that specializes in horizontal drilling is now considering investing in this Canadian prospect.

- The January issue of the *Northern Miner Magazine* carried a tribute to **Peter Hood** (MRD). Since 1964, Peter has collated an annual comprehensive review of geophysical instrumentation that was originally published as a special issue by the *Canadian Mining Journal* and later taken on by the *Northern Miner Magazine*. According to the editor, Olav Svela, Hood's review "evolved into perhaps the most definitive listing of new geophysical products and improvements to existing instruments". This year's issue will be Peter's last as he has now retired.

- IMAX Corporation announced that final shooting had started for *Titanic*, a film that features marine research at the site of the Titanic by **Steve Blasco** from AGC. It is scheduled for release in autumn 1992.

- **Jim Franklin, Mark Hannington,** and **Al Galley** of Mineral Resources presented a two-day workshop (February 13-14) in Timmins, Ontario, on recent developments in volcanogenic massive sulphide deposits. They presented their work on seafloor hydrothermal deposits and terrestrial deposits under study at Timmins, Noranda, and Flin Flon. Topics included alteration and mineralogy of deposits, metamorphism, and structural deformation. According to their studies, there is still considerable potential for massive sulphide and other deposits to be found north of Timmins in areas covered by thick deposits of glacial overburden.

- The Association for Women Geoscientists (AWG) encourages the participation of women in the geosciences and enhances their professional growth and advancement. On February 19, **Catherine Hickson** of Cordilleran Division, organized the first meeting of women geoscientists in the Vancouver area. Thirty-four women attended, and because of the enthusiastic response, work is now under way to set up an official AWG Vancouver chapter.



- The cover of the December/January issue of the *Network* magazine features a scanned electronic microscope photograph of a zircon grain taken by **Mike Villeneuve** (CGD). The zircon was recovered from a drill hole that penetrated basement rocks underlying the Western Canadian Sedimentary Basin. The drilling took place as part of a project to map these basement terrants and served as forerunner to the present Alberta Lithoprobe project. Other participants included **Randy Parrish** (CGD) and **Gerry Ross** (ISPG).✪

Some Statistics

By Penny Benson
Sector Personnel Advisor

Do you know:

- *How many employees work at the GSC?*

As of January 1992, there were 903 indeterminate employees and 180 term employees for a total of 1083.

- *How many men/how many women?*

660 men and 243 women = 903

- *How many Anglophones/How many Francophones?*

770 Anglophones and 133 Francophones = 903

- *How many employees by category?*

Scientific & Professional - 480

Technical - 226

Administrative Support - 112

Administrative - 46

Operational - 23

Management - 16

Total - 903

- *What is the average age of employees?*

43.8 years

- *What is the average years of service?*

15 years✪

GSC Merit Awards

By Jackie Voyce
Program Coordination and Planning Division

GSC Sector Merit Awards have been presented to several employees over the last year in recognition of their initiative, individual dedication, impressive teamwork projects results, and even for life-saving decisions made in a highly sensitive situation in the Soviet Union. All awards were well-deserved!

Sector Merit Awards

Bill Poole (PCP) was presented with a Sector Merit Award in recognition and appreciation of his skilful and conscientious efforts in the co-ordination and implementation of the geoscience components of Mineral Development Agreements.

Ken Hale (AGC) received an award for successful completion of the Canada/USSR Circum-Arctic Geology Map.

Brian Sawyer (PGC) was honoured for his production of illustrations for scientific publications, and for pioneering the production of three-dimensional bathymetric maps of the continental margin and the deep sea-floor.

Rosemarie Pleasant (GID) was rewarded for her dedication to the design of an on-line database system for serial records for the GSC Library.

Scott Dallimore (TS) got an award for conceiving and managing the "Onshore-offshore transect of the Beaufort Shelf Project" carried out by a joint team of about 30 scientists from the GSC and the private sector. Scott co-ordinated the scientific and logistic aspects of the project, provided liaison with industry, regulatory authorities, communities, native groups, national press, and US Geological Survey, as well as spearheading publication of the scientific results.

George Cameron (PCP) was given an award for the assistance he provided Roy Koerner, who had to undergo surgery in Leningrad, Russia, for a ruptured esophagus.

Bea Alt (TS) received a GSC Division Merit Award for establishing initial contact with the Soviets through an interpreter, and for assuming the responsibility of providing comfort and information to Roy Koerner's family and friends in Canada throughout his hospitalization.

Québec Geoscience Centre staff and Chris Findlay presented **Sonia Dupuis,** a library technician, with a Division Merit Award as well as a briefcase. This acknowledged Sonia's efforts in setting up a documentation centre and the QGC Distribution Centre as well as providing quality services to clients. Pierre Lapointe, INRS scientific director, also presented **André Hébert** with a merit award and a "diner for two" in recognition of his excellent contribution to the team spirit at the Centre.

Group Merit Awards

Group Merit Awards were presented to nine employees for organizing the Airborne Geophysics Workshops at the New Brunswick and Nova Scotia Open Houses in 1990. They are: **Ken Ford** (MRD), **John Broome** (CGD), **Dwight Dods** (GD), **Peter Hood, Rob Shives** (MRD), **Dan Teskey** (GD), **Joan Tod** (GD), **Gordon Watson** (MRD), and **John Carson** (MRD).

Seven other MRD employees, and two from Terrain Sciences, have been recognized for organizing and staging the "Exploration Geochemistry Workshop" held at the 1991 Prospectors and Developers Association of Canada Convention. They are: **Bruce Ballantyne, Bill Coker, Collin Dunn, Jim Franklin, Peter Friske, Bob Garrett, Gwendy Hall, Yvon Maurice** (TS), and **Bill Shilts** (TS)✪

PHOTO

Sonia Dupuis, *library technician at QGC and,* **André Hébert,** *technician at INRS, proudly displaying their Merit Certificate.*