

News views and opinions on the mineral exploration scene in Ontario

May 2005 Issue

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**THE EXPLORATIONIST**  
The Newsletter of the Ontario Prospectors Association

*The Explorationist Newsletter is brought to you as a 'member service' of the Ontario Prospectors Association. The purpose is to share news and information amongst its members and also to act as the association's 'Political Voice'.*

*The views and opinions expressed in this newsletter are not necessarily those of the Ontario Prospectors Association, including all of its members and Directors. The writers accept full ownership of their contributions.*

**THE ANNUAL SPRING SYMPOSIA**

The symposia in the Northwest (April 5 & 6) and Northeast (April 12-14) were outstanding successes again this year.

In the Northwest, the Northwestern Ontario Prospectors Association held the event at the Valhalla in Thunder Bay. The event attracted approximately 300 participants, 24 speakers and over 60 exhibitors. One major change this year was the modification of the setup of the venue. This year all the displays were in one large room providing a better forum for participants to mix and discuss the exploration and geoscience of the last year. The data from the Lake Nipigon Region Geoscience Initiative was highlighted with new geoscience releases on the Wednesday. Also the companies that have capitalized on the new data had presentation. The annual Awards Event was delivered on the Wednesday during the luncheon. Approximately 200 people attended the Awards ceremony that presented awards to:

**DISCOVERY OF THE YEAR 2004**  
Seagull Lake Intrusion: Discovery of the Reef Style PGM Mineralization (A Lake Nipigon Region Geoscience Initiative Success)  
Bob Fairservice (Prospector + Staker), Geoff Heggie (Lakehead University), Tom Hart (OGS), Bob Middleton (Eastwest Resources), Mike Jones (Platinum Group Metals) Wally Rayner (Lake Nipigon Region Geoscience Initiative) and Garry Clark (OPA).  
**DEVELOPER OF THE YEAR 2004**

**Musselwhite Mine Continued Success**

Dan Gagnon, Andrew Cheatle and Placer Dome (CLA) Ltd. Musselwhite Mine  
**LIFETIME ACHIEVEMENT AWARDS**  
Mel Stewart, Harry Lundmark, Knut Knuher and Walter Baker.

NWOPA also had a well attended Mirarco Virtual Reality Lab demonstration Tuesday night. This introduced the Northwest to the potential of using the 3-D information for exploration and mine planning. A trip to North American Palladiums Lac des Iles mine followed on the Thursday with pit and mill tours.

The next week in Timmins the Porcupine Prospectors and Developers Association was not to be out done. The Northeastern event featured over 30 speakers, 62 booths and displays and over 270 participants. The Timmins event was hosted within the McIntyre Arena complex. This complex proved to be an excellent venue for the event. The arena floor was the area for the displays that allowed for ample room for exhibitors to spread out their wares be in equipment or maps. The speakers room was conveniently located within a short walk from the displays. The onsite Ballroom was utilized for the Tuesday evening dinner and the sit down lunch Wednesday. The evening speaker was Dr. John Gamon who presented a talk reviewing his experiences dealing with various Ministers from different political parties of the Province.



*We're easy to get a hold of*  
Contact the Executive Director: **Garry Clark**  
By e-mail: [gjclark@ontarioprospectors.com](mailto:gjclark@ontarioprospectors.com)  
**Phone: 807-622-3284 Toll Free: 866-259-3727 Fax: 807-622-4156**

The Discover Abitibi Project was highlighted in one of the Technical sessions. This collaborative geoscience project, like the Lake Nipigon Region Geoscience Initiative, brought together government, industry and academics to produce data that stimulates exploration. Other Technical sessions focused on the exploration success across the Northeast. These success stories were well documented and included most commodity types.

The OPA congratulates the local association organizers on hosting informative symposia. Also many thanks to the participants and sponsors who without, these events would never occur.

### NEW FREE MAP ACCESS

A new policy in the Earth Sciences Sector (ESS), including the Geological Survey of Canada, has now been adopted with respect to access to maps and publications. These are now available free, and can be down-loaded through the following link:

English: [http://gsc.nrcan.gc.ca/bookstore/download/publist\\_e.php](http://gsc.nrcan.gc.ca/bookstore/download/publist_e.php)

Français : [http://cgc.nrcan.gc.ca/librairie/download/publist\\_f.php](http://cgc.nrcan.gc.ca/librairie/download/publist_f.php)

More publications will be coming available in future months. If you do not see the map and report that interests you, please check back at the site, periodically.

Maps of particular interest to you may include:

- \*Central Sturgeon Lake, Superior Province  
1:50,000 OF3641
- \*Savant Lake, Superior Province  
1:100,000 OF3947
- \*Western Wabigoon, Superior Province  
1:250,000 OF4255
- \*Red Lake, Superior Province  
1:50,000 OF4594
- \*Eastern Uchi, Superior Province  
1:250,000 OF4256
- \*Walker Lake, Committee Bay, Nunavut  
1:100,000 OF3777
- \*Ellice Hills, Committee Bay, Nunavut  
1:100,000 OF1794

Higher resolution versions (600 dpi vs 300 dpi)

of GSC maps and reports can still be obtained through the publication office at:Ottawa, Ontario

Web: GSC Bookstore <[bookstore/index\\_e.php](http://bookstore/index_e.php)>

E-mail: [gscbookstore@nrcan.gc.ca](mailto:gscbookstore@nrcan.gc.ca)

<<mailto:gscbookstore@nrcan.gc.ca>>

Telephone: 1 - 613 - 995-4342 1 - 888 - 252-4301 (toll-free)

FAX: 1 - 613 - 943-0646 Location: Address, map <[offices\\_e.php](http://offices_e.php)>

This change in policy should greatly facilitate the transfer of geoscience information.

Please pass this onto others to whom it may be of interest.

### PROPOSED DFO CHANGES

You may be aware that Fisheries and Oceans Canada (DFO), National Habitat Management Program is embarking on an environmental process modernization plan. One of the components of the plan is the development and implementation of a national Risk Management Framework (RMF). The RMF approach will allow DFO to strategically shift its focus towards projects having a higher risk to fish and fish habitat and streamline the review of routine, low risk projects.

We have carried out consultations across Canada with provincial and territorial agencies, as well as industry and environmental groups, to highlight the RMF process. During these consultations, the concept and some examples of a series of national Operational Statements were presented as a product of the RMF. These Operational Statements will become a key streamlining tool for DFO and will reduce the need for reviews of projects that will not likely result in the harmful alteration, disruption or destruction (HADD) of fish habitat. As such, each Operational Statement gives proponents guidance on how to carry out a work or undertaking in order to avoid causing the HADD of fish habitat and, therefore, be in compliance with the requirements of the *Fisheries Act*. Where proponents determine that they can not comply with these requirements, they are advised to

submit their project for review.

Below are the Operational Statements that have recently been nationally developed and approved (attached). We expect, as we continue along this approach, that the need for additional Operational Statements will be identified and that they will be developed as required.

Aquatic vegetation removal  
Beach creation  
Beaver dam removal  
Clear-span bridges  
Culvert maintenance  
Bridge maintenance  
Dock construction  
Off-line pond construction  
Directional drilling  
Ice bridges  
Routine maintenance dredging  
Overhead line construction  
Underwater cables

Because of the manner in which the *Fisheries Act* is administered across Canada, once an Operational Statement is nationally approved, it must be tailored for application and implementation in each provincial or territorial jurisdiction. Each Operational Statement will need to be reviewed for appropriate timing windows or other specific considerations to avoid regulatory overlap, redundancies or contradictions with provincial/territorial regulations and policies.

We are just completing discussions with government agencies that have a regulatory interest in the *Fisheries Act*. Our next step towards implementing the nationally approved Operational Statements listed is to discuss them with several representative stakeholders who are likely to be involved in their application. We would like to do this prior to full roll-out and implementation during April, 2005. Through this Smart Regulation approach we will collectively be able to provide better service to Canadians and the resource.

I am writing to invite you or your designate to participate in an information sharing meeting scheduled for Monday, February 28th (8:30 to 12:00) at the Travelodge Hotel, 925 Dixon

Road, Etobicoke. We will be contacting you to discuss your availability for this date. We would like to discuss the attached Operational Statements with you and receive your input on how they can most effectively be implemented within Ontario. Because these documents are currently in draft form we would ask that you limit their use at this time to your review in preparation for the upcoming meeting; we would appreciate your not distributing these drafts beyond those whose input you may be seeking in preparation for our discussions.

To work on this process, a team of DFO jurisdictional leads has been formed to undertake meaningful discussions with our resource management agency partners and stakeholders. The DFO lead for Ontario is Debbie Ming and she has identified you as a key contact. She can be contacted by phone at (905) 336-4592 or by email at [mingd@dfo-mpo.gc.ca](mailto:mingd@dfo-mpo.gc.ca). Further details on the agenda and location will be sent to you shortly.

Following our meetings with regulatory agencies and stakeholder representatives we are planning information sessions with a broader range of agency staff and stakeholder representatives in late March as part of our implementation within a given jurisdiction. To facilitate these information sessions, we will ask for your advice regarding that aspect of our implementation exercise when we meet.

We look forward to meeting with you and your colleagues on this important initiative. Please do not hesitate to contact Debbie or myself at 905 336-4764 at your earliest convenience if you have any questions.

Sincerely,  
Edwin R. DeBruyn  
Regional Risk Management Coordinator  
Chief, Habitat Operations  
Fisheries and Oceans Canada

#### OPA DIRECTOR RESPONSE

DFO Draft Regulations

Bridge maintenance, clear span bridges: no ma-

job concerns, but most likely a consulting engineer would be required (or very advisable) to supervise design and field work. I think MNR regulations would require an engineering sign-off on their work permit application.

Ice bridges: would probably require prior planning (i.e. the previous summer), as well as engineered design and field supervision to make sure regulations are adhered to.

Culvert maintenance: does not seem to address the (sometimes daily) removal of beaver-generated material blocking culverts – the most common situation for mineral exploration. A consulting fisheries biologist or engineer might be required to ensure adherence to regulations in cases when the stream was highly susceptible to erosion.

Beaver dam removal: assumes that live beavers are no longer present. Live beavers are, I guess, left up to someone else to deal with. Again, a wildlife or fish habitat biologist would be advisable to oversee demolition work so as to not breach the regulations.

(Apparently the traditional method of shooting the beavers and blowing up the dam is no longer acceptable.)

Docks: could affect larger docks for large exploration camps. Again, plans would have to be engineer-designed and work supervised by an engineer.

These regulations are pretty straightforward and standard, and would alleviate time-consuming secondary DFO review for small projects (most mineral exploration applications).

What they do not address is the major hurdle, that of the Navigational Waters Protection Act and that preliminary, very time-consuming process. DFO has expressed frustration to me before about the need for their review process over short-term bridges on piddly little streams in the middle of nowhere. However their hands are tied by the Act, which can only be changed by Parliament. I reckon that would take about 10 years, assuming there was large public sup-

port for change. In other words, it ain't gonna happen in our lifetime.

The Act could affect bridges, culverts and docks, so there is still a need to do long-term planning for any and all of these items.

Also, I advise the use of consulting engineers, biologists, etc., because I suspect the troubles resulting from breach of any DFO regulations would be far greater than the costs of hiring consultants and doing a proper job in the first place.

MNR Factor: Nearly all these activities would require a work permit from MNR, before DFO became involved. Certainly, engineering design would be required for proposed water crossings. Thus the need for planning time plus 6 weeks wait for the work permit (if all goes well). MNR has no apparent plans to 'streamline' their bureaucracy.

Dave Hunt

## **NEWS RELEASE / LAURENTIAN UNIVERSITY**

March 17, 2005

Laurentian University announces honorary degree recipients for Spring 2005

Laurentian University will award honorary doctorates to five distinguished citizens at its Spring Convocation Ceremonies on June 2-4, 2005. The five honorees are:

JOHN GAMMON

Dr. John Gammon has held the position of Assistant Deputy Minister, Mines and Minerals Division, Ministry of Northern Development and Mines, since 1991. In this capacity, he is responsible for all government activity related to exploration, development, mining, smelting and refining in the Province of Ontario. He is credited with establishing the Willet Green Miller Centre as a world class Mineral and Mining Research Centre, which

now houses some of Laurentian University's mining related research centres, such as the Mining Innovation, Rehabilitation and Applied Research Corporation (MIRARCO), the Mineral Exploration Research Centre (MERC), and the Virtual Reality Laboratory. He obtained his doctorate from the University of Durham in the United Kingdom and then carried out postdoctoral research in the

United States as a Fulbright Fellow. Dr. Gammon's work as a geologist has taken him throughout the world, to countries such as Norway, Sweden, Finland, Australia, Thailand, the Philippines, and Brazil. With expertise in mineral exploration and metal production, he has earned an enviable reputation as a researcher, administrator and advisor. He has been a member of the Ontario Prospectors Association, the Association of Professional Geoscientists of Ontario, the Prospectors and Developers Association of Canada and the Ontario Mineral Exploration Technologies program, and many other organizations. Dr. Gammon will be presented with an honorary Doctor of Laws on Thursday, June 2, at 2:30 p.m.

#### MICHAEL ATKINS

A leader in the Greater Sudbury community, publisher Michael Atkins has been in the publishing business in Northern Ontario for over 25 years. In 1973, he launched the Laurentian Media Group, a diversified publishing and information technology firm and serves as its President. He is also the president of Northern Ontario Business Limited and a founding member of the Northern Ontario Business Awards program. His company currently operates trade publications, trade shows, information portals, newspapers, regional business publications, consumer magazines, and internet services in Northern Ontario, Toronto, the Maritimes and New Hampshire, United States. He has been a director of a number of organizations: the Sudbury Chamber of Commerce, the Ontario Chamber of Commerce, the Sudbury YMCA, the Sudbury Theatre Centre, the Ontario Community Newspaper Association, and the Canadian Community Newspaper Association. He was a founding co chair of Sudbury 2001, an economic diversification group, and is

currently a director of the Canadian Business Press. In June 2004, Mr. Atkins received the Paul Harris Fellow Award from the Rotary Club of Sudbury. Mr. Atkins will be awarded an honorary Doctor of Letters on Saturday, June 4, at 2:30 p.m.

#### RONNIE HAWKINS

Known as "The Hawk," "Mr. Dynamo" or "the Granddaddy of Canadian rock and roll," Ronnie Hawkins is an actor and musician. Born in the United States, where he first launched his singing career, he is considered one of the pioneers of rock and roll. In 1958, he toured with his band in Canada and broke club records everywhere. He has been living in Ontario ever since and has made frequent appearances in Northern Ontario. Mr. Hawkins is an icon in the music industry nationally and internationally. In the early days of his career, he helped many Canadian musicians such as Robbie Robertson, David Foster, Burton Cummings, and David Clayton Thomas launch their own careers.

He has played for every Canadian Prime Minister since John Diefenbaker and regularly performed for Bill Clinton when he was President of the United States. Mr. Hawkins has earned numerous awards: a Juno for Country Male vocalist in 1984, a Juno nomination in 1996, and the Walt Grealis Special Lifetime Achievement Award as a Canadian Academy of Recording Arts and Sciences Industry Builder in 1996. In 2003, he was inducted into the Canadian Music Industry Hall of Fame. In sharing his personal battle with cancer, he has raised awareness of the disease across Canada. On Friday, June 3, at 10 a.m., an honorary Doctor of Letters will be bestowed upon Mr. Hawkins.

#### GISÈLE LALONDE

A well known leader in the Franco Ontarian community, Gisèle Lalonde was instrumental as President of the S.O.S. Monfort campaign in saving l'Hôpital Montfort - the only Francophone hospital west of Québec - from closure. Born in Vanier and a graduate of the

University of Ottawa, Ms. Lalonde made extensive contributions to the field of education, as a teacher and school board trustee. She founded the Centre franco ontarien de ressources pédagogiques and served as its director for ten years. She held key positions with the provincial government such as Advisor to the Minister of Education. She was chairperson of the Ottawa Roman Catholic Separate Board in 1974 and 1976, and chairperson of the Ontario School Trustees Council, 1977-78. In 1984-85, Gisèle Lalonde chaired the Council of Franco Ontarian

Affairs that advised the Premier of Ontario on Francophone issues. Gisèle Lalonde was mayor of the City of Vanier for two full terms, from 1985 to 1991, and concurrently served on the regional council of Ottawa Carleton. She was also founder of the Association française des municipalités de l'Ontario and served as president of this association from 1989 to 1991. She has served as a director on a number of boards including the Board of Governors at the University of Ottawa. To honour her vision and dedication to the Franco-Ontarian community and French Canada, a French-language public secondary school was named after her: the école secondaire publique Gisèle Lalonde, located in Cumberland, Ontario, held its official opening in September 2003. Ms. Lalonde will be awarded an honorary Doctor of Laws on Saturday, June 4, at 10 a.m.

**ROY MacGREGOR**

A daily columnist for the Globe and Mail, Roy MacGregor has written for the National Post, the Ottawa Citizen, the Toronto Star and Maclean's. He has received a National Newspaper Award on three occasions and was a finalist seven times, and won gold and silver National Magazine Awards. Mr. MacGregor has also written screenplays for CBC Television, one of which - Tyler, starring R.H. Thomson - was awarded the Grand Prix de La Presse at the Montreal World Film Festival. Ready for Slaughter, starring Gordon Pinsent, won the top award at the Banff Television Festival in 1983. He was twice the recipient of the ACTRA (now the Gemini) as the best television drama writer

in the country. He is the author of over 30 books, 18 of them in the internationally successful Screech Owls Mystery Series for young readers. Some of his other well known books include A Life in the Bush, a memoir of growing up in Algonquin Park, Canoe Lake, a novel on the death of painter Tom Thomson, and Home Game: Hockey and Life in Canada, co authored with Ken Dryden, which was a No. 1 Canadian best seller and short listed for the Trillium Award. An alumnus of Laurentian University, Mr. MacGregor launched his journalism career with the student paper, Lambda. Mr. MacGregor will receive an honorary Doctor of Letters on Friday, June 3, at 2:30 p.m.

**Breaking New Ground in Collaborative Geoscience: The Lake Nipigon Region Geoscience Initiative**

W. Rayner, P.Geo.<sup>1</sup> and J. R. Parker, P.Geo.<sup>2</sup>

<sup>1</sup>Program Director, Lake Nipigon Region Geoscience Initiative, Ontario Prospectors Association, Thunder Bay, ON

<sup>2</sup>Senior Manager (Acting), Precambrian Geoscience Section, Ontario Geological Survey, Sudbury, ON

The Lake Nipigon Region Geoscience Initiative (LNRGI) is a science-based geoscience data acquisition and compilation study that commenced in 2003 and will be completed in December 2005. During the last 2 years new geoscience data has been collected to help explain the geological history of the Lake Nipigon region and to identify high mineral potential exploration targets throughout the region.

During the last 2-years the Ontario Prospectors Association (OPA) in collaboration with the Ontario Geological Survey (OGS), Lakehead University, the mineral industry and government partners have been conducting geoscience studies in the Lake Nipigon region. This initiative has received financial support (\$3.5 million) from the Northern Ontario Heritage Fund Corporation (NOHFC);

in-kind support from the Ontario Geological Survey; and in-kind support (valued at approximately \$12 million) from the mineral industry.

### **FOUNDATIONS FOR COLLABORATION**

This innovative collaboration began when the Technical Committee of the OGS Advisory Board endorsed the concept of an OGS geological project in the Lake Nipigon region. Following the OGS Advisory Board advice, mineral industry clients at a client-advisory meeting held in Thunder Bay defined the technical project elements. The Ontario Prospectors Association was identified as the group to manage the Lake Nipigon Region Geoscience Initiative (LNRGI). A science committee was subsequently established to guide geoscience activities for the initiative. The science committee consisted of 16 representatives from the mineral industry (5), Lakehead University (2), Ontario Geological Survey (4), mineral industry consultants (3) and First Nation communities (2). Through a request for proposal, CAMIRO was contracted to provide technical analysis for the Science Committee and technical support to the LNRGI Program Director.

### **GEOSCIENCE IMPORTANCE OF THE LAKE NIPIGON REGION**

The Lake Nipigon Region is of interest to the Ontarian, Canadian, and international geoscience community because the rocks appear to preserve evidence for the rifting of the Earth's surface approximately 1 billion years ago. The Nipigon area is presently interpreted to be the failed third arm of a major Proterozoic Rift that transects mid continent North America beneath Lake Superior, the Keweenawan Subprovince. Documented evidence of crustal rifting processes preserved the Lake Nipigon region and will enhance the understanding of the geological history of this immediate area and the geological history of rocks preserved south of Thunder Bay and into the United States. The new geoscience data generated during the Lake Nipigon initiative will be used by the OGS as part of its 5-year core business commitment to the area. The data will be included in a joint OGS—United States Geological Survey (USGS) com-

pilation project to understand the geological history of the entire Midcontinent Rift system.

Elsewhere in the world, similar Earth processes have concentrated metals in the crust, including nickel-copper, platinum group metals (PGE), copper-gold, gold, uranium and rare metals, to levels where they form economically viable ore deposits. Important insights gained by studying this region will be applied to more effectively explore for mineral resources in this region and elsewhere in Ontario.

### **RATIONALE FOR THE PROGRAM**

Several specific geoscience questions have been addressed during this study. Part of our existing knowledge gap is due to the fact that much of the study area has not been mapped or sampled in detail. For example, undocumented areas of Archean rocks have been reported from the study area, but until the character and distribution of these rocks are known, they have unknown mineral potential. Also, the Sibley Group of sedimentary rocks and the English Bay felsic intrusion contain the oldest elements of the Keweenawan rift system. These studies will aid our understanding of the relationship of these elements and their implications for resource potential. In addition, Operation Treasure Hunt lake sediment geochemistry surveys identified metal anomalies in the area that may be indicative of unknown mineral occurrences. Both the surficial geochemical and bedrock mapping studies will help to determine the cause of these anomalies.

Although the region has enjoyed recent exploration for Ni-Cu-PGE mineralization associated with mafic-ultramafic intrusions (1100 Ma), it is not known whether mineralization type varies between intrusion forms (e.g. cone sheets versus sills or lopoliths). The distribution of felsic intrusions and related metavolcanic rocks (~1530 Ma) in the English Bay area is not well known, nor is the potential for iron-oxide-gold-copper mineralization in association with these felsic intru-

sions. The Black Sturgeon fault has been suggested to be an important controlling factor with respect to distribution of mafic intrusions, and possibly mineralization. Consequently, determining its precise location, as well as comparing stratigraphy across the fault, will be important in determining the metallogenic significance of this structure. Geochemical studies of the mafic intrusions will help in establishing the internal stratigraphy of these units, as well as aiding in determining the processes responsible for mineralization.

The acquisition of high-resolution airborne and ground geophysical data for the Lake Nipigon Region has assisted in defining potential exploration targets and will help to better define geological contacts and regional geological structures when integrated with the results of bedrock mapping.

#### **OBJECTIVES OF THE LAKE NIPIGON REGION GEOSCIENCE INITIATIVE**

The LNRGI geoscience projects will enhance the scientific understanding of the area and facilitate mineral exploration in the region by:

Maintaining and then increasing mineral investment in the Lake Nipigon region through collection of high quality geological data and provision of interpretations that meet the needs and priorities of the mineral industry and that maintain or attract mineral investment to Ontario  
Increase the mineral exploration discovery rate by addressing “masking and deep search challenges and skill gap” in the area.

Respond to, and evaluate, new and exciting mineral deposit models recently recognized for nickel-copper, palladium-platinum, uranium and gold-copper mineralization in the region

Reinforce and demonstrate an innovative economic development model based on local community, industry, and government partnerships in geoscience that result in mineral resource economic development in the local communities, the region, and Ontario.

Provide a framework for informed future land use decisions.

#### **KEY RESULTS**

High quality geoscience data has been provided that meets industry needs and priorities. There has been increased staking activity in response to the results of the geoscience study.

Diamond-drill core sampling conducted as part of an OGS bedrock mapping program and Lakehead University research thesis lead to the discovery of new platinum-palladium horizons in the Seagull intrusion. This discovery resulted in significant exploration expenditures as part of follow-up investigations. Lake Nipigon geophysical surveys have resulted in several companies acquiring large areas of ground for uranium exploration in the area.

OGS and Lakehead University staff are transferring their technical knowledge and expertise to the exploration community through field trips, tours and technical talks and posters.

Other more medium- to long-term results are expected such as

- An increase in mineral investment in the area.
- The mineral industry is able to explore more effectively within and beneath the cover rocks.
- Local and regional communities receive economic benefits from mineral exploration activities.
- Local, regional and provincial communities receive benefits of potential ore body development.

#### **GEOSCIENCE PROJECTS**

As of April 2005, the following projects are completed or underway.

Bedrock Mapping: 1:50 000-scale bedrock mapping was completed in 2003 and 2004. The projects were designed to gather geological data over key areas in the western Nipigon embayment in order to address several geoscience problems. The bedrock mapping was completed in parks and protected areas under permit from the Ministry of Natural Resources (MNR) and Parks Ontario. Light “foot print” bedrock mapping was conducted

without significant disturbance to the natural environment. Bedrock outcrops were accurately located during the mapping, sampled and described, and key stratigraphic units were sampled for geochronology. Rock property data such as density and magnetic susceptibility was collected for integration with the geophysical data. All data will be made public and the results of the bedrock mapping will be integrated with other geoscience data to generate a holistic interpretation of the geological history. These data have also been used in a regional 3-D data analysis conducted by MIRARCO in collaboration with the OGS.

**Aeromagnetic and gamma spectrometry:** This survey was completed on August 28, 2003 and was conducted over a large area west of Lake Nipigon. The fly-over of the Gull Bay First Nation reserve was negotiated with the band council. The MNR permit also acknowledged the fly-over of the parks and protected areas in the region. The results of this project were released on April 9, 2004. Reports and maps have been provided to both the Gull Bay First Nation and Parks Ontario.

**Gravity Survey:** A regional ground gravity survey was completed west of Lake Nipigon and data was released to the public September 1, 2004.

**Geochronology:** The age of many rock units within the region was poorly understood and determining their age was critical for the development of a comprehensive geological model. Rock samples were collected during bedrock mapping and relogging of diamond drill core.

**Surficial Geochemistry:** This project is a study of the glacial history of 5 specific areas in the Lake Nipigon region. Numerous PGE and nickel anomalies were discovered during an Ontario Treasure Hunt lake water and sediment survey. The sources of these anomalies were uncertain, therefore, the objective of the study is to classify the glacial materials and to develop case histories for metal transport in glacial and surficial drainage patterns. This work has provided a better understanding of the concentration of metals in lake sediments in the area. It is

expected that the results from this work will be published in early 2005.

**Lakehead University Stratigraphic Mapping and Petrology Studies:** The OPA provided funding to Lakehead University to support the studies of geology students at the university during the Lake Nipigon initiative. Much of this work focussed on diamond-drill core from various exploration sites in the region as well as stratigraphic mapping of vertical bedrock outcrops. Detailed sedimentary basin reconstruction and petrochemical differentiation of the mafic and ultramafic intrusions are essential components of the geological interpretation of the Nipigon region.

**Geographic Information System (GIS) compilations of legacy data are underway.** This work will compile and index the large volume of disparate geoscience data in the entire LNGRI area and will provide a base for further investigation and research. A large volume of proprietary in-kind data will be integrated with regional maps and databases under a common user-friendly format.

**An AMT (magnetotelluric) survey was performed under the supervision of the Geological Survey of Canada (GSC) as a Targeted Geoscience Initiative (TGI) to study shallow and intermediate depth structures in the Lake Nipigon region.** These data will provide deep crustal profiles across the western edge of the Nipigon Embayment.

The GSC also conducted a paleomagnetic study of regional dike swarms with the intent of providing insight into Proterozoic intrusive activity in the region.

## ACKNOWLEDGEMENTS

This project could not have advanced so far so rapidly without the efforts of mineral industry collaborators; the staff of the Ministry of Northern Development Mines (Ontario Geological Survey and Resident Geologist Program); the LNRGI Science Committee and Implementation Committee and their chairpersons; and the administrative staff of

the Ontario Prospectors Association. Finally this program would not have happened without funding from the Northern Ontario Heritage Fund Corporation.

### **Sault and District Prospectors Association**

Honourable Rick Bartolucci  
Ministry of Northern Development & Mines  
99 Wellesley Street West  
Room 5630, Whitney Block  
Toronto, ON M7A 1W3

**April 9, 2005**

Dear Minister:

Upon direction from the membership of the Sault and District Prospectors Association (SDPA), we are submitting this proposal for your consideration.

Our membership is in favour of the Ministry of Northern Development and Mines (MNDM) pursuing the creation of a Mineral Discovery Trust Fund. The idea of a resource trust fund is not new to the Ontario Government. The Ontario Ministry of Natural Resources implemented a Forestry Trust Fund as a way of using stumpage revenues to regenerate cut forest stands. The proposed Mineral Discovery Trust Fund would be similar to that used by the forest industry, except that we would use part of staking revenues to support the Trust Fund which would then be used to generate mineral discovery by the prospecting and exploration community.

Financial support for the Ontario Prospector's Association and its subsidiary the Ontario Exploration Corporation, as well as other initiatives such as Discover Abitibi and the Nipigon Geoscience Initiative, rely primarily on government programs to provide funding either whole or in part to support their activities. This 'ad-hoc' type of financial support does not lend itself to the longer-term viability of organizations like the OPA/OEC and seriously limits their ability to develop longer-term strategic planning and program development. In addition, direct subsidies of industries have been falling out-of-

favour and there has been a move towards more 'business-like' partnering arrangements with the government.

One of the issues that frequently arises is that of map staking. The SDPA believes it to be inevitable. In fact membership has asked that we pursue the concept of map staking, but in conjunction with the creation of a Mineral Discovery Trust Fund.

The financial support required to fund the OPA, the OEC, and non-OGS geoscience initiatives could be obtained through the utilization of a percentage of the revenues acquired from the implementation of map staking within the province of Ontario. As well, the idea that a portion of the funds acquired by map staking would be channeled back to the prospecting and explorationist community serves as an incentive to rationalize the implementation of map staking in Ontario, something that the rest of Canada has already moved towards.

Clearly, the OPA and OEC have demonstrated the capability of representing the interests of prospectors, explorationists and junior exploration companies. Both these organizations serve a vital need and represent a highly diverse community of stakeholders. We need to formalize the ad-hoc method of funding for the OPA and the OEC and remove any impediments to mineral exploration through constructive, financially independent partnerships with government.

This concept of a Mineral Discovery Trust Fund should be given serious consideration by the Ontario Government. As well, a map staking sub-committee should be created with two main objectives in mind:

- 1) To determine a viable way of creating a Mineral Discovery Trust Fund and its implementation.
- 2) To investigate a satisfactory way to implement map staking across Ontario,

The proposed Mineral Discovery Trust Fund

model parallels that of the Ministry of Natural Resources Forestry Trust Fund Model .

We suggest that we follow the same business-funding model as that used by the MNR and the forestry industry.

Yours truly, Vivienne Cote President and Delio Tortosa Vice President

### **NOTICE NEW MEMBER SERVICE**

Do you have old stock certificates? The OPA believes we can help you find if they have value or are worthless. For a fixed rate we will complete some basic research that may allow you to determine potential value. Just email [gjclark@ontarioprospectors.com](mailto:gjclark@ontarioprospectors.com) for more information.

An example of a request:

Dear Garry

I was wondering if you could possibly help me out. My father recently passed away and I am the executor of his will. While going through his personal items we came upon some "mining stocks". I cannot find any of the companies on the internet, so therefore these companies may not exist any longer. I wanted to know if you would happen to have an idea of where I can find out more info on some old stocks. The 2 companies were, Zahavy Mines Limited, and Flint Rock Mines Limited. I don't know where to start my search. I believe these stocks may still have value, even though the companies may not exist. The companies may have been bought out years ago.

These stocks date back to around 1980. I would appreciate any advise or help you can offer.

Thank you very much for your time and efforts.  
RL

### **Response to R.L.**

The OPA has completed the search for your stock certificates. Both companies have transformed over the years and eventually been delisted. It is interesting that they both had ownership involvement in the same company at one point. We have been able to determine a potential lead for both companies at the point of delisting. Please send us a note if you have any

success with the next steps.

Our research found:

Zahavy Mines Limited

- 1989, there were 5,120,227 shares outstanding and they had property in Northwestern Ontario, Grafton New Hampshire, Timmins, and Thunder Bay areas. They also owned 31.2% in Nor-Norock Mining C. L.
- 1993, named changed to Xavier Mines Limited in a 1 share for 5 old share consolidation.
- 1993 there were 2,654,984 shares outstanding, they still held the Northwestern Ontario property and were looking at base metal potential in the US and Latin America
- 1996, Xavier Mines Limited changed to Xavier Corporation with a 1 new for 4 old consolidation of shares. They were involved in a joint venture in Russia looking at oil and gas.
- 1997 they were delisted from the ASE for failure to file continued listing requirements

The only lead from this point is a major shareholder from Xavier Mines Limited is still active in the industry. John McBride can be reached at 416-777-0001 ext. 1. He may know if the company still exists.

Flint Rock Mines Ltd.

- 1988, there were 3,128,060 shares outstanding and 547,887 shares in escrow. They had properties in the Cameron Lake area, Thunder Bay, Red Lake, Kirkland Lake, Kenora and Timmins.
- 1990, amalgamated into Kalrock Resources L., with 1 new share for 6 old shares.
- 1992, Kalrock Resources L. 2,306,085 shares outstanding. 33.3% interest in Nor-Rock M'g Co. L., 4% royalty in Uranium property in Quirke Lake, Iron Property in Quebec
- 1993 Kalrock Resources L. amalgamated with private company to form Cercal Minerals Corporation on a share for share basis.

- 1995 Cercal Minerals Corporation had 20,806,743 shares outstanding and 3,157,433 escrowed. Laurasia Resources owned 19% and Empresa Mineira da Serra do Cercal owned 36%. They had an option to earn an interest in a base metal property in Portugal.
- 1995, September, Cercal Minerals de-listed from the ASE.

Laurasia Resources still exists and John Clark was a director of Laurasia and a director of Cercal. The contact is 416-367-0150.

### **PROSPECTING MANUALS**

The OPA is offering Prospecting Manuals for sale. This is an updated manual covering everything from the Ministry Administration, staking and basic methods of exploration for most commodities sought after in Ontario. This informative document is available for the low price of \$30.00 including GST and shipping. To order just call the OPA office (866-259-3727) or email [oegs@ontarioprospectors.com](mailto:oegs@ontarioprospectors.com).

### **FINALLY A DECISION ON MINING LANDS AND PARKS DIENTANGLEMENT**

Finally after three years of discussion and suggestions by PPL and OPA the MNDM and MNR have come to an agreement on some of our recommendations and have made a political decision.

### **PROPOSED LAND USE PLANNING PROCESS TO REDUCE OVERLAPS OF RECOMMENDED PROTECTED AREAS AND PRE-EXISTING MINING LANDS.**

This index page has been created to provide access to supplementary information related to the proposed land use planning process to reduce overlaps of recommended protected areas and pre-existing mining lands. A notice for this proposal has been posted at the Environmental Registry website, under EBR Registry Number XB05E4002.

**Summary of Proposed “Disentanglement” Strategies for Recommended Protected Areas overlapping Pre-existing Mining Lands**

This list summarizes the strategies for “disentangling” the recommended protected areas and pre-existing mining lands at the 66 sites where issues were identified. All the sites where changes in land use designations are proposed will be subject to a land use planning process, with public and Aboriginal consultation. Mapping of the sites is available on the internet Crown Land Use Policy Atlas site at <http://crownlanduseatlas.mnr.gov.on.ca/>.

### **Status Quo - No change in designations - Retain Forest Reserve (25 sites)**

C14 Mellon Lake  
C138 Blue Lake End Moraine  
C1509 Kwinkwaga Ground Moraine Uplands  
C1517 South Michipicoten River  
C1527 Manitou Mountain  
C1596 Whitefish River Sandy Till  
C1607 Kesagami River Outwash Plain  
C2225 Gravel River  
C2245 Lake Superior Archipelago  
C2332 Bruce Lake  
C2340 Eagle Lake Islands  
C2366 Lake of the Woods Islands  
F172 Daisy Lake Uplands  
F181 Kukagami Lake  
P174 Chiniguchi  
P187 Killarney Lakelands and Headwaters  
P228 River aux Sables  
P273 Algoma Headwaters  
P331 Killarney  
P1506 White Lake  
P1557 Ivanhoe Lake  
P1616 Abitibi – De Troyes  
P1621 Esker Lakes  
P1622 Lake Abitibi Islands  
P2239 Ruby Lake

### **Remove all or part of the Forest Reserve designation, and redesignate to General Use Area or Enhanced Management Area (as appropriate) and seek replacement protected areas (17 sites)**

C206 Centre Creek Old Growth White Pine\*  
C1584 Tatachikapika River Plain  
C1597 Night Hawk Lake Shoreline Bluffs  
C1600 Mistinikon Lake Uplands  
C1602 Whitefish and East Whitefish Lakes Sandy Till Uplands\*

C1603 Elspeth Lake White Birch Outwash\*  
 C1626 South Grassy Lake Outwash\*  
 C1705 McGarry Township Forest\*  
 C1712 Coral Rapids Wetland\*  
 C2354 Hammel Lake  
 F175 Wolf Lake Old Growth Forest\*  
 F212 Shakespeare Forest\*  
 P173 Sturgeon River  
 P1501 Craig's Pit\*  
 P1632 Gem Lake Maple Bedrock\*  
 P1715 West Montreal River  
 P2370 Woodland Caribou

\* Indicates that the forest reserve designation will be removed from all mining lands at the site.

**Remove all or part of the Forest Reserve designation, and redesignate to General Use Area or Enhanced Management Area (as appropriate), and do not seek replacement protected areas (23 sites). Over time, may seek replacement lands at other sites where feasible.**

C98 Harrison Lake Forest (Ryerson Township Forest)\*  
 C159 McLaren Forest  
 C178 MacLennan Esker Forest\*  
 C215 Gough Outwash Forest  
 C1564 Woman River Complex\* (process currently under way to identify replacement lands)  
 C1587 Meteor Lake Outwash Fan\*  
 C1594 Grassy River Halliday Lake Forests and Lowlands  
 C1628 Trollop Lake Burnt Hill Poplar Spruce\*  
 C1704 Hillardton Marsh\*  
 C2247 Lake Nipigon  
 C2334 Trout Lake\*  
 F179 Capreol/Hanmer Delta\*  
 F207 Cow Lake\*  
 F208 Vermillion River Delta (Dowling/Fairbank)\*  
 F216 Nelson Delta East\*  
 P192 Spanish River  
 P261 Little White River\*  
 P278 Pancake Bay\*  
 P282 Batchewana River\*  
 P1569 Groundhog River  
 P1591 MacMurphy Township End Moraine\*  
 P1639 Grassy River – Mond Lake Lowlands and Ferris Lake Uplands\*  
 P2363 Eagle - Dogtooth

\* Indicates that the forest reserve designation will be removed from all mining lands at the

site

**Site-Specific Strategies (1 site)**

C1519 Lake Superior Highlands – Proposed strategy includes:

- Existing Forest Reserves to be redesignated as General Use Area with forestry prohibited and restaking will be permitted.
- Twenty-one claims along the Lake Superior coast will be voluntarily surrendered by the claimholder and will be redesignated as Conservation Reserves. In exchange, an area equivalent to 21 claims will be granted to the claimholder to the south and west of their existing claims.
- The claimholder will retain one of their existing claims on the coast.
- The claimholders of the two western claim groups, upon attaining Advanced Exploration stage under the Mining Act, will be eligible to apply for an Exploratory Licence of Occupation through an Order in Council to expand their land base up to 400 metres from existing claims. The 400 metre area will not be regulated as part of the conservation reserve and will be changed to a general use area designation, with forestry prohibited.
- A policy provision will be put in place to permit access to the two western claim groups.

**ONTARIO EXPLORATION CORPORATION**

The 2005 awards program has been completed for this year. There were 6 applications for winter programs and all 6 were awarded funding. Winter program application forms are due to OEC by November of each year. A total of 21 applications were received for summer programs with 19 projects being awarded funding. Summer program applications are due in March. 2006 applications will be available in the early fall.