



The Mining Society of Nova Scotia

121st Annual General Meeting - 2008 -

Theme: **"Atlantic Canada's Resources -***Supporting a Sustainable Future"*



Vol: 2007-1



The Mining Society of Nova Scotia

121st Annual General Meeting Abstract Volume 2008-1

Theme: "ATLANTIC CANADA'S RESOURCES-SUPPORTING A SUSTAINABLE FUTURE"

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The Inverary Resort, Cape Breton, Nova Scotia June 12th – 13th, 2007



Mining Society of Nova Scotia $\,$ - 121^{st} Annual General Meeting JUNE 12-13, 2008 "Atlantic Canada's Resources-Supporting a Sustainable Future"

The Mining Society of Nova Scotia 121st Annual General Meeting The Inverary Resort, Baddeck, N.S., June 12th & 13th, 2008

Pre Paid Registration for the 121st AGM - MSNS

Accompanied By
Company Name
Address City Province
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REGISTRATION

Member	Before May 15th/08	\$ 75.00
Member	After May 15th/08	\$100.00
Non-member	Before May 15th/08	\$100.00
Non-member	After May 15th/08	\$125.00
Life Members	•	Gratis
Guests		Gratis
Authors	• • • • • • • • • • • • • • • • • • • •	\$50.00

		Payment Method:	
Cheque	Visa	Master Card	American Express
Credit Card Signature	l Number		Expiry
There i	s no refund	on registration after]	May 30 th , 2008
Mail Cheque to:	The Minir 88 Leeside If using creater	ng Society of Nova Sco e Drive, Sydney, N.S., edit card you can fax at	Dia, <u>Registration</u> B1R 1S6 (902) 567-2147

For more information phone or FAX: (902) 567-2147

DIAMONDS IN THE ROUGH GOLF TORNMAMENT

PLEASE REGISTER EARLY!

During the MSNS AGM meetings at the Inverary Resort, Baddeck, N.S., the Annual Golf Tournament will be held at the Bell Bay Golf Club.

Play will take place on Thursday, June 13th. Tee off times have been reserved for Mining Society Members.

The tournament will be individual play. Players may take one Mulligan on the front nine, one Mulligan on the back nine, only, and only off the tee.

Players can form their own twosomes and foursomes.

TO BOOK YOU TIME PLEASE CONTACT: Francis Gillies – (902) 625-3929 or e-mail: francis.gillies@strait-highlands.ns.ca

Prizes will be awarded on Friday evening at the Mining Society Dinner.

Green fees including cart is \$138.00 for two persons.

If you have any questions regarding the Golf Tournament call Francis at: 902-625-3929

121st ANNUAL GENERAL MEETING THE MINING SOCIETY OF NOVA SCOTIA THE INVERARY RESORT, BADDECK, CAPE BRETON June 12th – 14th, 2008

ACCOMMODATION

Room reservations are made directly to The Inverary Resort

If there are any questions please phone The Inverary Resort at: (902) 295-3500

When making reservation please mention that you are attending the Mining Society of Nova Scotia Conference and specify whether you will be taking the complete package or just part.

Traditional rooms \$109.00; \$120.00 - gratuity and HST extra.

Cottages - \$159.00 – gratuity and HST extra.

Room reservations must be guaranteed with a major credit card or a full one night's deposit.

MEALS

*Breakfast	\$12.95 gratuity and HST extra.
*Thursday Awards Dinner	\$39.00 gratuity and HST extra.
*Friday Mining Society Luncheon	\$19.95 gratuity and HST extra.
*Friday Lobster Dinner	\$49.00 gratuity and HST extra.

* Meal prices may change slightly. The prices quoted were available at the time of printing.

THE MINING SOCIETY OF NOVA SCOTIA 121st ANNUAL GENERAL MEETING THE INVERARY RESORT, CAPE BRETON, N.S. JUNE 12TH AND 13TH, 2008

THEME

"Atlantic Canada's Resources-Supporting a Sustainable Future"

June 12 th	Registration
9:00 am -12:00 1:30 pm - 5:00	The Inverary Resort

THURSDAY AFTERNOON SESSION, JUNE 12TH

	Theme: "Atlantic Canada - Rich in Resources"
CHAIRMAN	Dan Mac Donald - President, The Mining Society of Nova Scotia
1:30-2:00	Business Meeting
2:00-2:30	M. MacDonald* and John Calder , Balancing Mineral Potential and Land Use Decisions in Nova Scotia
2:30-3:00	G. Shaw/C. Harker, A New Method for Extracting Energy from Coal
3:00-3:30	Coffee Break
3:30-4:00	Bryan Trish , "Green Mines Green Energy: Developing Productive Land on Mine Tailings
4:00-4:30	Bob Fraser, The Economic Impact of the Mineral Industry in Nova Scotia - 2006
4:30-5:00	Arden Thompson, , An Update of the Stealth Venture Ltd. Coal Bed Methane Project in the Cumberland Coalfield, Nova Scotia

THURSDAY EVENING – June 12th

6:30-7:30 President's Reception,
7:30-9:30 Awards Dinner with Guest Speaker Dr. Ross Mc Curdy, "Devco's Legacy Program"
9:30-11:30 Entertainment – Dance and Cash Bar

FRIDAY MORNING, JUNE 13th

9:00-12:00 Registration

FRIDAY MORNING TECHNICAL SESSION

Theme: "New Operations Creating Wealth in Atlantic Canada"

Chairman	Gordon Dickie, First Vice President, The Mining Society of Nova Scotia
8:30-9:00	Bob Kelly, Duck Pond Project, Nfld.
9:00-9:30	Rick Horne, Scotia Mine 2008
9:30-10:00	Val Istomin, Next Steps for Donkin Mine Project
10:00-10:30	Coffee Break
10:30-11:00	Rob Krienke, Uranium Exploration in Atlantic Canada
11:00-11:30	Peter Carter, Touquoy Gold Mine Development – Project Update
11:30-12:00	Dan Khan, Surface Coal Mine Reclamation Enchancement Initiative
12:00-1:30pm	The Mining Society Luncheon, <i>Guest Speaker</i> – Michelle Landreville, Executive Director, MANS

FRIDAY, JUNE 13TH

1:30-3:00pm Registration -

FRIDAY AFTERNOON TECHNICAL SESSION, JUNE 13TH

Theme: "Engaging the Stakeholders and Regulator"

CHAIRMAN	Bob MacDonald, Second Vice-President, The Mining Society of Nova Scotia
1:30-2:00	Bob Cooper, Voisey's Bay Project – Engaging Aborogonals
2:00-2:30	Eric Parsons, Communicating Devco's Remediation Site Closure Program
2:30-3:00	Jim LeBlanc, Development of a Regulatory Framework for Subsea Coal Mining
3:00-3:30	Coffee Break
3:30-4:00	Dan Christmas , First Nations Perspective on their Involvement in Mining in Nova Scotia
4:00-4:30	David Forrester, (Moderator) Panel Discussion
FRIDAY EVENIN	G, June 13th
6:30-7:30	Mining Society Reception, West Bay Room, Cash Bar
7:30-9:30	Lobster Dinner, West Bay Room, Guest Speaker – Honourable David Morse, Minister of Natural Resources, Golf Prizes. PLUS: " <i>The Order of The Good Time</i> "
9:30-12:00	Dance – "Working Class"

FRIDAY AFTERNOON - JUNE 13th <u>GUEST PROGRAM - FRIDAY AFTERNOON ,</u>

2:00 to 3:00 pm Angie Reid, "Lady Bug Haven", Jewellery making demonstration.

SATRUDAY MORNING - JUNE 14th

7:30-10:30 Council Meeting and Breakfast

OFFICERS FOR 2007-2008

PRESIDENT	Dan Mac Donald, P.Eng.
1st.VICE-PRESIDENT	Gordon Dickie, P.Eng.
2ND.VICE-PRESIDENT	Bob Mac Donald , B.Sc
SECRETARY-TREASURER	George Sigut, P.Eng.

General Information – Please Read

Participants in our Annual General Meeting are to register at The Mining Society registration desk on the right as you enter the main building. Times are Thursday, June 12th, from 9:00am to 5:00pm and Friday June 13th from 9:00am to 2:00pm.

The Technical Session will be held in Glasgow 1 of the Inverary Resort.

The Thursday and Friday evening receptions will also be held in Glasgow 1.

The Thursday and Friday evening dinners will be held in the Banquet Room of the MacAulay Conference Center.

The Mining Society of Nova Scotia Friday luncheon will be held in the Main Dining room.

The Saturday morning Council meeting will be held in Glasgow 2.

The Guest Program will be held in "Flora's" room, Inverary Inn main building. Special Guest is Angie Reid of Lady Bug Heaven and coffee will be served.

Accommodations are to be made directly to the Inverary Resort, Baddeck, N.S. Phone 1-902-295-3500.

For more information phone or fax The Mining Society of Nova Scotia (MSNS) at: (902) 567-2147.

Past President: Paul K. Smith (2006-2007)



Paul has been employed with the Nova Scotia Department of Natural Resources in Halifax since 1975 where he has been a senior gold geologist for more than 33 years. He has been responsible for the initial recognition of pervasive, large-scale alteration associated with Nova Scotia's most sought after precious mineral resource and has been instrumental in categorizing the different styles of gold mineralization in the southern part of the Province. To actively promote the highly prospective potential of these gold deposits, Paul had travelled throughout Canada, USA, Australia and New Zealand to deliver scientific presentations and collaborate with foreign colleges, both abroad and at home. In

2007 he assumed the role of Liaison Geologist for the Department of Natural Resources in Halifax. In this capacity Paul is the first point of contact for new and established companies entering the province to conduct mineral exploration. He graduated from Acadia University in 1973 with a BSc in geology and after working briefly for Barrymin Exploration in Quebec, returned to Acadia to complete an MSc on structural geology in 1976. Following work on a number of stratigraphic, structural, tectonic and geochemical projects, Paul convinced the then, Department of Mines to start a gold research program, which continues today. He announced his retirement earlier this year to assume the position of VP Public Relations for Acadian Mining Corporation in Halifax and Gays River. Together with his wife Heather Noseworthy-Smith, and their two children, Cochrane and Kinsella, they reside in a quiet, South Mountain country home adjacent to the Annapolis Valley and overlooking the Minas Basin.

As 2006-2007 President of *The Mining Society of Nova Scotia* my goal is to accomplish three major tasks. Firstly, I want to build a stronger, more efficient and effective Society, having a cooperative working relationship with the National CIM and the Chamber of Mineral Resources of Nova Scotia. Secondly, I hope to see the total membership of the Society increase by showing how beneficial this Society is to the industry of Nova Scotia. Thirdly, I will work hard to create a more efficient and timely communications plan to keep all members up to date on information important to the mining and mineral industry across the Province, as well as news from, and about, our various members.

E-mail: <u>pksmith@gov.ns.ca</u> Phone: (902) 424-2526, or <u>pauls@acadianmining.com</u> Phone: (902) 751-0547

Outgoing President (2007-2008)



Dan MacDonald, M.A.Sc., P.Eng.

Dan MacDonald was born in Sydney, Nova Scotia, and raised in Sydney River, Nova Scotia. Dan attended Riverview Rural High School, graduating in 1969. In 1972 Dan received his engineering diploma from St. Francis Xavier University and subsequent in 1973 a B.Sc. from St. Francis Xavier University. In 1975 Dan received a Bachelor of Civil Engineering from Nova Scotia Technical College and in 1987 a Master of Applied Science in Structural Engineering from the Technical University of Nova Scotia.

Dan began his engineering career in 1975 with Public Works Canada as a Marine Design Engineer working on major docks and ferry terminals in Atlantic Canada. In 1981 Dan joined the Cape Breton Development

Corporation as Senior Project Engineer; eventually becoming the Corporation's Chief Civil Engineer and was involved in the Phalen and Donkin mine development, along with rebuilds of the International Pier and Prince Mine. In 1989 Dan joined the consulting engineering field of practice, specializing in marine and mining projects. Presently, Dan is involved as the Engineering Manager for the Tar Ponds clean up project and is the lead engineer for the surface pre-feasibility study for the Donkin Mine.

Dan lives in Coxheath, Nova Scotia, with his wife Kathy and has four grown children, Brennan, Santiago Chile; Leigh, Glace Bay, NS; Melissa, Calgary, AL and Megan, Halifax, NS. Dan's hobbies include house renovations, woodworking, various sports, and travelling.



Incoming President

Gordon Dickie graduated from Dalhousie University in 1975 with an Honours B.Sc. in Geology. He currently works with The Shaw Group Limited in the position of General Manager-Shaw Resources. His work experience includes Nova Scotia Department of Natural Resources as project geologist, Senior Geologist with Billiton Canada and Senior Geologist with Shell Canada. In the latter two positions, he was responsible for tin, tungsten and

uranium exploration projects in Atlantic Canada. During his 17 years with Shaw Resources, Gordon has undertaken a variety of projects including a portable grinding mill, export of Glace Bay slag, Bayside Aggregate and fly ash. He has held several management positions, including Business Manager of Nova Scotia Sand & Gravel and its Transport functions. Gordon is a Director of the Chamber of Mineral Resources of Nova Scotia and a Councillor of the Mining Society of Nova Scotia. Interests outside of work include, among other things, travel, old cars and Cape Breton fiddle music. Gordon lives in Dartmouth with his wife Lynn and has two daughters Caroline and Colleen.

E-mail: gdickie@shawresources.ca

1st Vice President Reclamation of the Victoria Junction Site



Bob MacDonald, a native of Pomquet, Antigonish County, Nova Scotia graduated from St.FXU in 1979 with an Engineering Diploma, TUNS in 1981 with a Bachelor of Mining Engineering and West Virginia University in 2000 with a Masters of Science in Mining Engineering. He has been employed with the Cape Breton Development Corporation since 1981 and held various positions in project engineering and management throughout his career. Bob has authored or co-authored thirteen articles on changing technology and ground control techniques in coal mines. He is currently the Director General Property and Environment; responsible for overseeing the closure requirements including remediation and reclamation of more than fifty sites that have been impacted by coal mining activities.

The Victoria Junction (VJ) Coal Preparation Plant is a large complex located just east of Sydney, Nova Scotia. The complex includes the coal preparation plant, related stacking and transfer facilities, a large waste rock pile, lifting and banking centre, as well as, various offices, shops and warehouses in the immediate proximity of the plant.

The primary environmental concerns with the decommissioning relate to the cleanup of the contaminated areas and the management of acid drainage from the site. General site cleanup and removal of inventories and materials (e.g. contaminated soils) will be a requirement. There are a number of above ground and below ground storage tanks, which need to be emptied and removed as well as the collection and removal of contaminated soils around these tanks. Collection and treatment of acid mine drainage continues until the affected

Environmental assessment activities began on the site in 2001 with the monitoring of surface and groundwater drainage patterns. In 2003 a number of submersible pumps were installed in what today are called the pump and treat wells on the north side of the coarse waste pile adjacent to the North West Brook Wetland. These wells pump contaminated water from the intermediate ground water table to the surge pond on site and then to a treatment plant. In 2004 the Phase I, II and III ESA's were completed and demolition began on all major structures. Demolition was completed by 2005 and the material was removed from the site and sold for scrap. In the fall of 2005 a contract was let to place a multi-layer engineered cover on the coarse waste pile. This was completed in January 2007. Other activities in 2006 and 2007 include consolidation of acid generating material, grading, installation of engineered covers and surface drainage features. Residual activities include assessing the site for the final water treatment requirements and developing a Site Management Plan to monitor performance of the covers, engineered features and the surrounding eco-systems.



Bob Kelly, P.Geo., is presently General Manager of Teck Cominco's Duck Pond Operation in central Newfoundland. He is a Professional Geoscientist graduating from Memorial University of Newfoundland in 1976 and also the Executive Program at the University of Western Ontario's School of Business in 1994. Bob has spent over 30 years in the mining industry starting out as an exploration geologist in western Canada. He then spent 21 years in various senior management roles at the Iron Ore Company of Canada's mining operation in Western Labrador including a stint as Mine Manager. Prior to joining Teck Cominco he was Construction Manager for Voisey's Bay Nickel Demonstration Plant in Argentia and its Commercial Nickel Processing Plant in Long Harbour, Newfoundland.

Duck Pond Operations – Overview

Duck Pond Operations consists of a copper and zinc mine and processing mill located in central Newfoundland. Production began in January of 2007 and the operation currently mines 657,000 tonnes of high quality ore annually and is expected to continue through the next 5 to 6 years.

In 2002 Aur Resources purchased all interests in the Duck Pond property and conducted a feasibility study that same year. In December 2004 the company decided to pursue production and construction on the \$157 million dollar project began two years later. In 2007, Teck Cominco Ltd. acquired the operation from Aur Resources.

Duck Pond is an underground operation which utilizes long-hole, bench and drift-and-fill mining methods. The mine is accessed through a ramp in the foot wall of the deposit. Uncrushed ore is trucked to surface and fed through a jaw-crusher before being sent to a 1,500 tonne coarse ore bin. The ore is then sent to the grinding circuit and ore slurry is then pumped to a flotation circuit. Concentrates are dewatered through a thickening and pressure filtration process and trucked to a storage facility at the port of Turf Point near St. George's on the island's west coast.

A zero harm environment is a key element of the safety management system at Duck Pond Operations. Throughout the construction phase and into commissioning and production, Duck Pond Operations maintained an excellent safety record. In its first year of production the company went 538,000 hours without a lost time incident. A great deal of focus is put on incident investigations, job safety analysis and Emergency Response training. In terms of environmental consciousness, the operation proves it is committed to preserving natural resources in that an average of 90% of mill process water is recycled from the tailings pond. In addition, the operation is considering making a lead concentrate to maximize the use of the natural resources while minimizing the amount of product being fed to the tailings facility. The objectives are zero lost time and zero need for medical aids while operating in a zero-harm environment for people, process and equipment.

Duck Pond Operations took a creative approach to confront the labour shortage in the mining industry by working with a local college to develop a Hard Rock Mining course. A number of graduates are now employed full time in the mine. Competitive compensation packages, an employee relations committee that facilitates open dialogue and a safe workplace have made Duck Pond Operations an employer of choice. At the end of 2007 the work force at Duck Pond consisted of 227 employees.

Acadian Mining; An overview of mining and exploration activities Rick Horne

Acadian Mining is a Halifax based company focused on exploration and mining in Atlantic Canada. Company interests are principally directed on exploration and development of zinc-lead properties and gold properties; the latter are in the process of being "spun out" into a new company (Annapolis Gold). In addition the company holds barite and polymetallic properties.

Mineralization at Scotia Mine consists of sphalerite and galena hosted by a carbonate bank of the Gays River Formation, and is generally interpreted to represent a Mississippi Valley type deposit. The distribution of mineralization is systematic, with high grade occurring on the bank front and in contact with overlying evaporates or later formed unconsolidated "trench" material. Higher grade mineralization reflects replacement whereas lower grade mineralization is characterized by pore filling. Acadian Mining began production at the Scotia Mine in the spring of 2007 following refurbishment of the mill, which consists of crushing and grinding, flotation and drying circuits. Current capacity at the mill is limited by the grinding circuit, which has a demonstrated capacity of 2500tpd. Open pit development was initiated with removal of approximately two million tons of overburden. Current pit development involves removal of overburden, waste rock and ore. Underground development of the Northeast zone is anticipated to begin in late 2009.

Evaluation of similar deposits and exploration for additional mineralization is ongoing in the Gays River area. Acadian recently completed a 137 diamond drill hole program on the Getty deposit and is in the process of completing a resource evaluation, which will be followed by a scoping study. Recently discovered mineralization in the nearby Carrolls Corner area demonstrates the potential for new deposits in the area. Regional exploration is also ongoing in favorable environments throughout the province.

Acadian has recently announced the spinout of its gold assets into Annapolis Gold. The principal properties (Beaver Dam, Tangier, Forest Hills and Goldenville), all with 43-101 compliant resources, continue to be the main focus, and an accelerated evaluation program of them is expected from funds generated through Annapolis Gold. The Fifteen Mile Stream deposit, which also has a 43-101 compliant resource, was recently acquired by Acadian and will be evaluated in the context of the principal properties. The Beaver Dam and Fifteen Mile Stream properties present bulk minable open pit potential whereas the Tangier, Forest Hills and Goldenville properties are considered as underground operations. A scoping study is currently being completed for Beaver Dam to evaluate the potential of bulk open pit and underground mining. Baseline environmental data is being collected in preparation of environmental assessment permitting for the principal properties. Several other previous gold districts as well as gold exploration properties are being evaluated.

An Up-Date on the Stealth Ventures Ltd. Coal Bed Methane Project in the Cumberland Coalfield, Nova Scotia



Arden Thompson, a native of Antigonish, Nova Scotia graduated from Saint Francis Xavier University in 1975 with a Bachelor of Science with geology major. He has been employed with Stealth Ventures Ltd. since October 2005. Prior to joining Stealth Ventures Ltd., Arden had a career as both an employee and as a contracting and consulting geologist with numerous companies working within Nova Scotia, mainly on coal related projects. Projects have included areas such as coal bed methane evaluation drilling and test well operations, coal exploration drilling programs, coal mine feasibility studies, mine development, surface coal mining and high wall mining operations. In his current position as the Operations Manager, Nova Scotia, for Stealth Ventures

Ltd. Arden is the only Stealth employee in the province and is responsible for the daily operations of Stealth's test production wells, on-going geological review and assessment and local administrative duties.

Stealth Ventures Ltd. is a Calgary-based junior oil and gas company whose expertise and focus is on "unconventional" gas reserves from CBM (coal bed methane), shale gas and tight gas sand reservoirs. Stealth Ventures Ltd. holds the coal bed methane rights for both the Pictou and the Cumberland Coalfields. Stealth initially became a joint venture partner in the Pictou Coalfield with Amvest Ltd. in 2003. In 2005 Stealth purchased the Pictou Coalfield project from Amvest and since that time has held 100% interest in the Pictou Coalfield. Stealth also became involved in the Cumberland Coalfield in partnership with Contact Resources in 2005 and eventually purchased Contact Resources interests in the Cumberland Coalfield in 2006, to become the sole owner of the coal bed methane rights.

Stealth Ventures Ltd. successfully drilled and completed three test production wells in the Cumberland Coalfield in 2006 under and exploration agreement. These wells were all completed using horizontal drilling techniques. The ability to complete long horizontal laterals within coal seams is an important factor in the development of a successful coal bed methane program in tight, low permeability coals.

In November of 2007, Stealth obtained approval of a coal-gas production agreement for the Cumberland Coalfield from the Province of Nova Scotia. This comprehensive agreement sets out a schedule of evaluation and development and a framework of regulatory and corporate requirements. In December of 2007, Stealth conducted a fracture stimulation of one of the Cumberland Coalfield wells. Testing and evaluation of this well is still proceeding. An additional horizontal well will be drilled in 2008 employing some new drilling techniques to further assess the commercial viability of coal bed methane in the Cumberland Coalfield.

Touquoy Gold Project

Peter Carter, a native of Vancouver, British Columbia, graduated from the British Columbia Institute of Technology in 1984 with a diploma in Mining Technology and Montana Tech in 1987 with a Bachelor's Degree in Mining Engineering. In 2005, he earned an Executive MBA at Queen's University.

He has been involved in open pit mining for 25 years, originally as an equipment operator before returning to school and subsequently moving into engineering, supervision, and management. He has worked in Canada, the United States, and the former Soviet Republics.

Prior to joining Atlantic Gold NL, Peter was employed by Centerra Gold Limited for 12 years during which he was Manager of Mining at the 600,000 oz/yr Kumtor Gold Mine in Kyrgyzstan, General Manager at the 250,000 oz/yr Boroo Gold Mine in Mongolia, and Director of Project Development at the company's head office in Toronto.

The Touquoy Gold Project is a small, open pit mine development located 1 ½ hours north of Halifax, Nova Scotia, at the community of Moose River Gold Mines. The area was the site of historic mining activity from the 1860s to the First World War during which time a recorded 20,000 oz were recovered. In 1936, the rescue of three men trapped by a groundfall in the closed underground workings was notable as the first event ever to be broadcast internationally by radio.

The project is based on nominal in-pit resources of 500,000 oz gold contained in 10.5 Mt of ore at a grade of 1.5 g/t. The deposit lies in the Goldenville Formation of the Meguma Terrane. The host rock is mostly argillite interbedded with some greywacke. The orebody is associated with a classic anticlinal structure but the mineralization occurs both as veins and disseminated. Although visible gold is evident throughout the deposit and represents a significant portion of the contained value, the majority of the ore tonnage is associated with the disseminated mineralization.

The project is based on a conventional open pit, drill/blast, truck/shovel operation mining 15,000-20,000 tpd for 6 years at a strip ratio of roughly 2.5:1. Ore will be fed to the mill at a rate of 4,500 tpd. Processing will employ 3-stage crushing reducing ore to P80 9 mm before ball milling to 150 μ m. The coarse gold will be recovered by mechanical means (centrifugal concentrators) while the fine fraction will be treated with carbon-in-leach (CIL) technology. Following cyanidation, the gold is stripped, subject to electrowinning, and smelted. Dore will be pored on site. Recovery is expected to be about 93%.

Work on the project site began in 2003. To date over 15,000 m of reverse circulation and diamond core drilling have been completed. In February 2008, Atlantic Gold received environmental approval for the project and is now engaged in preparing documentation for operating and construction permits. Completion of permitting, acquiring all project lands, and securing a used mill for the process plant will allow the firm to complete a bankable feasibility study which is expected in October 2008. Success in raising interim financing between now and October will determine if construction will proceed before year end 2008 or at the start of Q2 2009.

Dan Khan, P. Eng., Nova Scotia Department of Natural Resources

Dan grew up in Dartmouth and received an Bach. of Engineering degree in Mining in 1983 from the Technical University of Nova Scotia (now Dalhousie). Dan's first experience in the mining industry began while working as a engineering student at the underground Evans Coal Mine located at St. Rose, Inverness County back in the summer of 1982.

Since graduating, about half of his professional career has been spent at surface mines and in mineral processing plants in the province. He has had roles in engineering services, quality assurance and plant operations at mines and manufacturing plants within the province. Dan has also worked for both the federal and provincial governments in environmental and resource management roles.

Dan is currently employed as a Program and Development Officer by the Mineral Development and Policy Section at the Department of Natural Resources in Halifax. Dan is involved with the Province's "Surface Coal Mine Reclamation Enhancement Initiative" which he will be discussing today in his presentation.

Abstract:

On April 27, 2006, the Minister of Natural Resources announced the Surface Coal Mine Reclamation Enhancement Initiative, through which a scientific research program will investigate how surface coal mine reclamation projects can be developed to support land-use strategies in Nova Scotia communities. Minister Taylor said the program will be led by provincial experts who will be invited to sit on a committee representing industry, academia, government, research organizations and public interest groups. The committee's mandate will include site selections for the study, a review of scientific literature, ecological studies, recommendations for test vegetation plots, planting and monitoring of test plots, public consultation and an action plan for re-integrating mine sites into the local environment.

Over the past two (2) years, work has been accomplished through a collaborative effort of a number of organizations and interested residents coordinated under the Minister's initiative. The DNR led committee has established parameters for research required to evaluate past reclamation efforts in Cape Breton County. In 2006-07 preliminary site assessments were made on nine (9) former surface mine sites and, in 2007, comprehensive vegetation surveys began and test plots were established to evaluate the ecological response to a variety of vegetation amendments.

To date, the committee has come to the conclusion that most previously mined lands will eventually return to an Acadian Forest ecology. The question of how long it will take for various sites to return to a mature or climax forest condition is not certain and will require additional surveys at sites reclaimed several decades ago to help improve predictions.

The committee has also found that other jurisdictions in North America have recently gone through a similar evaluation of surface coal mine reclamation methods and the resulting vegetation/ecology. The results of studies in other jurisdictions indicate that the common restoration objective of developing a stable, non-eroding grassland cover, may in fact arrest the subsequent development of trees and other local plant species. Therefore reclamation practices, for designated alternative land uses, require a design and execution that will provide the conditions for the desired final land use.

The Economic Impact of the Mineral Industry in Nova Scotia - 2006

Bob Fraser, is a Vice-President with Gardner Pinfold Consulting Economists Limited of Halifax. He has been with the firm since 1981.

The general objectives of Gardner Pinfold are to provide comprehensive professional services covering all aspects of economic consultancy. They specialize in assignments related to the economics of natural resource and industrial development and in the field of regional economics. Gardner Pinfold is recognized as one of Canada's leading firms in terms of its analytical capabilities and experience related to the economics of natural resource development and management.

Bob has planned, directed and managed the resources of the firm to produce advisory and analytical reports on a range of issues for a broad client base. Under contract with the Nova Scotia Department of Natural Resources and in association with Conestoga Rovers and Associates, Bob has undertaken a study "The Economic Impact of the Mineral Industry in Nova Scotia – 2006" The study objective was to complete an independent analysis of the current minerals industry in the province that provides a comprehensive description of the size and scope of the industry in 2006. The study includes upstream and downstream components.

The study concludes that the mineral industry does play a major role in the province's economy. In total the industry provides over 6,000 person years of direct and spin-off employment. It also accounts for almost \$500 million in GDP. The economic impact of the industry stems from its associated activities, including mineral exploration, mine development, mineral production, and value-added processing. These activities result in expenditures on goods and services, as well taxes and royalties are paid to all levels of government.

This study serves as a comprehensive profile of the mining industry in Nova Scotia. The final document also provides historical information on mineral production, it highlights recent new mine developments and it describes economic benefits associated with reclamation activity. A comparison with other sectors and provinces is also presented, as is an assessment of government-industry linkages.





Gerard Shaw, a native of Glace Bay, Nova Scotia graduated from University College of Cape Breton in 1982 with a Mineral Technology Diploma and received a Certificate in Environmental Assessment from Lakehead University in 1995. He has been employed by the Cape Breton Development Corporation since 1982 and has held various positions in mine operations, safety, environment and WCB management for the corporation, He currently holds the position of Corporate Legacy Manager, responsible for the management of various projects to ensure that a

positive legacy of mining and the contributions miners left to Cape Breton and the economy of Canada is left behind as we wind down. Collin Harker runs a business consulting firm in Sydney, NS., where he lives with his wife and two children. Presently doing work for CBDC on exploiting the varied forms of energy in the Sydney coalfield, Collin specialises in strategic planning, marketing and management consultancy, and has done work for a wide range of local companies and community groups, and national and international companies and organisations. Born in Ottawa, and

graduating in Philosophy and Economics from King's College in

Halifax, Collin has travelled extensively and worked in Brussels and London before settling in Sydney. The Sydney coalfield was the heart of Canada's largest energy project for the early part of the last century, and was the site of underground coal mining for over 250 years, until the cessation of underground operations at Prince mine in 2001. Through all of this time, somewhere in the region of 450 million tonnes of coal was mined, at depths of 2200ft, and up to 6km out under the Atlantic ocean; the extent of what was feasible with existing technology. Still, this represents only a tiny fraction of the resource, and some estimates put the total remaining resource at approximately 45 billion tonnes, equivalent in BTU terms to the proven reserves of Canada's new gold standard of energy projects, the Alberta Oil Sands. In short, given new technology, and a new focus on greener practices, energy has a strong future in the Sydney coalfield.

There are an estimated 33,000 kilometres of roadways in the abandoned underground workings of the Sydney coalfield, much of which are now flooded. In particular, there are an estimated 75 billion gallons of water in workings beneath the communities of Glace Bay, Dominion and Reserve Mines, water that ranges in temperature between 9 and 15 degrees Celsius. There is enormous potential for geothermal energy from this water, with steady improvements in heat pump technology and strong growth in geothermal energy across the country, and positive experience of using minewater for geothermal heating and cooling in Springhill, Nova Scotia.

As concerns the extraction of the energy in the remaining coal reserves, coal bed methane extraction techniques are improving continually, and globally much interest is being placed in the sequestration of carbon dioxide in coal seams, including as a means to enhance the recoverability of methane. Also, in situ gasification of coal is a proven technology, with full scale projects on several continents. Recently, attention is being paid to employing microbiological processes to break down cola molecules and release the stored hydrocarbon energy.

Green Mines Green Energy: Establishing Productive Land on Mine Tailings

Bryan Tisch¹



Bryan is a native of Sudbury, Ontario. He has been with the CANMET -Mining and Mineral Science Laboratories (MMSL) of Natural Resources Canada for approximately 9 years, and is currently a Senior Environmental Scientist with the Mine Waste Management Program. He completed his B.Sc. and M.Sc. degrees in Biology at Laurentian University, specializing in tailings reclamation. Bryan has been the Co-President of the Ontario Chapter of the Canadian Land Reclamation Association for the past 11 years, and in 2007, was the winner of the Edward M. Watkin Award for significant contributions to the field of land reclamation. Most of his work has focused on various aspects of mine reclamation, but particularly on the use of papermill biosolids and other organic industrial "waste" materials for the rehabilitation of tailings impoundments. Bryan's research led to the rehabilitation of the Pronto Mine

tailings (near Elliot Lake, Ontario) with papermill biosolids, and was the first full-scale application of an organic "waste" to a mine site in Ontario. The success at Pronto helped pave the way for further long-term utilization of papermill biosolids at other mine sites in Ontario.

CANMET-MMSL has established a consortium initiative entitled "Green Mines Green Energy". The consortium is composed of representatives from mining, forestry, government, academia and the private sector. The goal of this initiative is to expand the practice of mine reclamation by furthering the use of "waste" organic materials for the rehabilitation of mine sites - to the extent that they can be used to establish energy crop feedstock for the production of various biofuel alternatives. These alternatives may include the generation of biomass for the production of biodiesel, ethanol, biogas or as a pelletized fuel, and is ideal, because it has the potential to do so on marginal land. The principal organic materials under consideration at this point include papermill biosolids, municipal source-separated organic (SSO) compost, and wastewater biosolids. There is increasing pressure on industry and municipalities to divert clean organic waste materials from landfill and to establish productive uses for them. In many areas of Canada, these materials (particularly municipal SSO compost) are in reasonably close proximity to mines, and offer a stable, long term, beneficial disposal strategy. Adequate volumes of reclamation materials are often in short supply at mines. Thus, this represents a genuine win-win scenario. Laboratory studies are underway to investigate the potential impact of these materials on tailings oxidation and leachate chemistry, as well as the effect of biosolids/compost-derived dissolved organic carbon on effluent treatability and toxicity. The construction of several half-hectare field plots will be completed on mine sites by late Spring 2008. The presentation will provide an overview of the Green Mines Green Energy initiative and current participants, as well as a summary of laboratory and field testing undertaken to date.

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Robert (Bob) Cooper, President, Vale Inco Newfoundland & Labrador Limited

Bob joined Vale Inco Newfoundland & Labrador Limited (*formerly Voisey's Bay Nickel Company Limited*) in 1996 as the General Manager of the Mine and Concentrator in Labrador. In January 2007, Bob became President of Vale Inco Newfoundland & Labrador Limited.

He is a native of Newfoundland and Labrador and in 2007 relocated his residence from Happy Valley-Goose Bay to St. John's. Bob has a Diploma of Engineering from Memorial University of Newfoundland and a Bachelor of Mining Engineering from the Technical University of Nova Scotia.

He has spent more than 30 years in the Canadian Mining Industry with major career stops at Cape Breton Development Corporation and Hudson Bay Mining and Smelting. Career positions have been in Operations, Engineering and Human Resources.

Abstract

Developing New Nickel Resources Voisey's Bay Project

When promising nickel reserves were found at Voisey's Bay, Labrador in the mid-1990s, the discovery sent a ripple through the mining world. For the mining companies attracted to the resource, and especially for Inco, which eventually bought the deposit, the way ahead might have seemed clear. But, the reality was that it would take almost a decade to overcome all of the challenges before the development could begin. Voisey's Bay itself lies at the centre of a long history of human occupation. To its north is the Inuit community of Nain; to the south the Innu community of Natuashish. Each group claims a history of occupation and land use stretching back thousands of years. At the time of the mineral find, the area was subject to overlapping and unsettled land claims. Ownership and rights to the land's resources were far from clear. Both the Inuit and the Innu were determined that no major development would move forward on their land without their permission and input. Environmental issues and the right to benefit from development were both concerns that had to be addressed before the development could move forward.

When Inco entered the scene in 1996, it was basically stepping into a new world of project development. It had not undertaken a major, new resource development in almost 50 years. The project concept was simple: build a mine and concentrator as quickly as possible, and get the ore out and to market. However, a great deal had changed in the intervening years. The new realities of greenfield projects were complex. The Canadian regulatory regime required a comprehensive environmental assessment process before the project could go ahead. This would take extensive

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consultation and time. Needed infrastructure at the site would have to wait. Overlapping land claims also meant that Inco's subsidiary, Voisey's Bay Nickel Company (VBNC), would also have to negotiate agreements with two aboriginal groups.

For a mining company, Voisey's Bay was perhaps as complicated a scenario as anyone could dream up. The way ahead was unclear. Clashing views and competing stakeholder issues created barriers. It would take a great effort on the part of all stakeholders to bring them down. A number of consultative processes started between VBNC, the Labrador Inuit Association (L1A), the Innu Nation and the provincial and federal governments. The environmental assessment process began as did negotiations on Impacts and Benefits Agreements. New approaches to employment and contracting had to be considered to address aboriginal benefits and the principle of adjacency. Negotiations aimed at reaching a development agreement with the Government of Newfoundland and Labrador also continued in parallel.

The entire process was marked by stops and re-starts, protest and court challenges. It was not until June, 2002 that the Voisey's Bay project was officially given the go-ahead. By the end of the month, VBNC was awarding contracts for the year's work program, drawing extensively on aboriginal joint ventures. In late August 2005 first ore was mined and in early November 2005 first concentrate was shipped - more than six months ahead of schedule.

From discovery to commercialization, the successes achieved with the Voisey's Bay development were the product of dedicated team work and entrepreneurial spirit which stretched across cultural boundaries and far-ranging interests. In the end Voisey's Bay evolved to become a project whose hallmarks are environmental responsibility, opportunity and perseverance.

Mr. Parsons is the Manager of Site Assessment and Remediation Public Works and Government Services Canada (PWGSC) Atlantic Region and the Project Leader for the Cape Breton Development Corporation (CBDC) Site Closure Program. Mr. Parsons has over 20 years of experience in the area of Site Assessment, Risk Assessment and Remediation with both private industry and the federal government.

Since 2001, Public Works and Government Services Canada (PWGSC) on behalf of Cape Breton Development Corporation (CBDC) have developed and implemented projects, investigations and studies to assist CBDC with its vision to wind down the affairs of the Corporation. The program is currently starting to shift from an environmental site assessment and demolition phase to a planning/design and remediation/construction phase. This work is primarily focused on former mining sites and/or property associate with mining operations (waste rock piles, coal preparation plants etc.).

PWGSC has completed or is in the process of completing several major projects including the Former Central Shops; Former Victoria Junction Coal Preparation Plant and the former Princess Mine Site. PWGSC was also involved with the completion of construction projects associated with the management of mine water for the corporation including the initial construction of facilities at the Neville Street Well Field, Emergency Water Treatment facilities at the former No.26 Mine Site and MacKay Corner Infilling.

The successful implementation of these and future projects relies on strong communication with the public and stakeholder groups along with a consistent approach. This presentation will provide and update on the work completed to date by PWGSC on the CBDC Site Assessment and Remediation Program along with a discussion of the communications strategy for this program.

Mike MacDonald

Mike has spent his entire professional career as a geoscientist. He obtained his Bachelor of Science degree from St. Francis Xavier University in 1977 and graduated from Dalhousie University with a Masters Degree in igneous petrology and geochemistry in 1981. Most of Mike's career has been with the Nova Scotia Department of Natural Resources where he has worn many hats including project geochemist, bedrock mapper, mineral industry liaison, manager of geological mapping and geochemistry and, most recently Director Geological Services Division. Mike has worked as an exploration geologist in both the mineral, and oil and gas sectors throughout Canada. In 1997 he took a leave of absence from Natural Resources to work as regional exploration manager in Mongolia and Indonesia for a Toronto-based gold exploration company.

Balancing Mineral Potential and Land Use Decisions in Nova Scotia

Mike MacDonald and John Calder Nova Scotia Department of Natural Resources

Nova Scotia's small land mass, and relatively high population density compared to other Canadian jurisdictions, presents unique challenges for land-use planning, integrated resource management and protection of private and public lands for future generations. In 2007 the government of Nova Scotia passed the Environmental Goals and Sustainability Act that will ensure that 12% of the total landmass of the province will be legally protected by the year 2015. At present approximately 8.4% is legally protected, including the proposed Ship Harbour Long Lake, Shelburne River, and Blue Mountain-Birch Cove Lakes candidate areas. Therefore, an additional 3.6% of the province must be identified, evaluated and protected in the next 7 years. Another tenant of the Act is the harmonization of the province's goals of economic prosperity and environmental sustainability. It is crucial therefore that the mineral potential of candidate wilderness areas be evaluated such that land use decisions are made in an informed basis.

The Geological Services Division of Natural Resources is currently preparing a Mineral Resource Atlas for the province that identifies areas of low to high mineral potential. The Atlas incorporates a wide range of databases and geological information including: past claim staking activity; diamond drilling, abandoned mine openings, current and past mining activities, location of coalfields, industrial and metallic mineral occurrences; highly prospective rock units (e.g. Windsor Group); peatlands; metallogenic domains (e.g. southwest Nova Scotia Tin Domain, central Nova Scotia IOCG Domain); and location of potential aggregate deposits (sand & gravel, and crushed stone) for both domestic and export uses. This information will be combined to produce a mineral potential map for the province.

Jim LeBlanc

Jim LeBlanc is the Director of the Occupational Health and Safety Division of the Nova Scotia Department of Labour and Workforce Development. He has occupied this position since 1993. Prior to that was employed in occupational health and safety related management and service delivery positions within government. Jim has been employed in the private sector as an industrial hygienist with an engineering consulting firm specializing in asbestos abatement and indoor air quality. Mr. LeBlanc is a certified industrial hygienist having completed an undergraduate degree in chemistry and a graduate program in industrial hygiene. He represents the province in a number of regional and national committees in the area of occupational health and safety and is active in the area of professional development and promotion of workplace health and safety.

Development of a Regulatory Framework for Subsea Coal Mining

Subsea coal mines are located in an area where both the federal and provincial governments assert jurisdiction. This created a need for the two levels of government to work together to create a harmonized regulatory regime for coal mining.

As the discussions began with interest expressed in subsea coal mining, Executive Council of Government gave the previous Department of Environment and Labour direction to negotiate with the federal government. The objective was to establish a joint federal-provincial law reform proposal to provide a streamlined and effective regulatory regime for the class of mines.

The process resulted in the 2003 Underground Mining Regulations being replaced. The 2008 revision of the Underground Mining Regulation resulted in:

- Decreased regulatory and administrative burden for subsea and underground mining operations in Nova Scotia

- Modernized technical aspects of the regulations by accepting additional recommendations from an industry based employer and employee working group and,

- Incorporation of changes required by the federal government as part of a larger regulatory regime acceptable to both regulators.

The Division replaced the 2003 Underground Mining Regulations with new regulations to address these issues.

By creating a regulation acceptable to both levels of government and the assignment of administrative responsibility for the regulation to the province a single regulator will administer these requirements on behalf of both governments.

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Paul K. Smith, 2005

On behalf of the "Mining Society of Nova Scotia" the Executive would like to take this opportunity to thank all it's sponsors for contributing to the success of our organization.

We also wish to thank all the volunteers for their dedication and hard work throughout the year, and leading up to this, our 121^{st} Annual General Meeting – June $12^{th} - 13^{th}$, 2008 at the Inverary Inn Resort, Baddeck, Cape Breton Island, Nova Scotia.

