

MINING MATTERS

2006

REPORT ME 2006-2
ED. D. R. MACDONALD

THE WESTIN NOVA SCOTIAN HOTEL
NOVEMBER 9 AND 10, 2006



Natural Resources

Honourable David Morse
Minister

Peter Underwood
Deputy Minister

Halifax, Nova Scotia
2006

CONTENTS

Program.....	iv
Current Views on the Geology of Nova Scotia's Coal Basins - <i>J. H. Calder, M. R. Gibling, R. D. Naylor, M. C. Rygel and J. A. Waldron</i>	1
The Mineral Inventory: How to Make it Relevant to Nova Scotians - <i>G. J. DeMont</i>	2
Coastal Erosion in Nova Scotia - <i>P. W. Finck and J. D. MacNeil</i>	3
Mining Legacy Data: Bluestack Resources Inc. Soil Samples - <i>T. A. Goodwin</i>	4
Nova Scotia Gold Grain Study: 2006 Follow-up Sampling - <i>T. A. Goodwin</i>	5
Overview of Geological Mapping and Geochemistry - <i>T. A. Goodwin, R. J. Horne, R. D. Naylor and C. E. White</i>	6
Assessing the Ability of Nova Scotia's Surficial and Bedrock Geology to Buffer the Effects of Acid Rain and Acid Rock Drainage - <i>T. A. Goodwin and C. E. White</i>	7
Stratigraphy, Aeromagnetics, Structure and Gold Deposits: A Cross-section of the Meguma Terrane from Centre Musquodoboit to Tangier - <i>R. J. Horne and D. Pelley</i>	8
Investigation of Magnetic and Gravity Anomalies on the Scotian Shelf off Southeastern Cape Breton Island, Nova Scotia - <i>S. A. Lyon, S. M. Barr and S. A. Dehler</i>	9
The Next Ten Years: Implementing a Strategic Plan for the Geological Services Division - <i>M. A. MacDonald</i>	10
Investigation of Nova Scotia Paleoplacer Sites - <i>R. F. Mills</i>	11
Are Nova Scotia's Carboniferous Carbonate-hosted Base Metal Deposits and Iron Oxide-Copper-Gold (IOCG) Deposits Close Cousins? - <i>G. A. O'Reilly</i>	12
2006 Aggregate Program - <i>G. Prime</i>	13
Mineral Exploration in Nova Scotia, 2006 - <i>P. K. Smith and P. D. McCulloch</i>	14
Examples of High-resolution LIDAR Elevation Maps from Three Different Geological Environments in Nova Scotia - <i>T. L. Webster</i>	15
Preliminary Bedrock Geology of the Kejimkujik Lake Map Area (NTS 21A/06), Southern Nova Scotia - <i>C. E. White and S. A. Lyon</i>	16
Changing Dynamics of the Canadian Coal Industry - <i>A. Wright</i>	17

Program

Wednesday, November 8

Pre-conference Field Trip to Pioneer Coal Ltd. Reclamation Mine, Stellarton

There are 30 spaces available for interested participants. The field trip will be run at cost (\$65.00) on a first-come – first-served basis. The bus will depart from the front of the Westin Hotel at approximately 8:00 a.m. and will return to the Westin in late afternoon. For further information and registration, please register online at: <http://www.gov.ns.ca/natr/meb/oh/index.htm> or contact Valerie Brisco at: VJBRISCO@gov.ns.ca or phone: (902) 424-1580.

Thursday, November 9

Commonwealth Ballroom A and B, The Westin Nova Scotian Hotel, Halifax

Core Shack and Poster Display Session

9:00 am - 7:00 pm Registration (Commonwealth Foyer)
 9:00 am Coffee and Refreshments (Commonwealth B)
 9:30 am Displays Open (Commonwealth B)

Informal talks will be given throughout the morning at the Core Shack display, with ample time for questions and discussion.

Review of Activities, Mineral Resources Branch

1:30 pm - 1:35 pm *Welcoming Remarks*, Scott Swinden
 1:35 pm - 2:00 pm *The Next Ten Years: Implementing a Strategic Plan for the Geological Services Division*, Mike MacDonald
 2:00 pm - 2:20 pm *Movers and Shakers of Nova Scotia's Exploration Industry, 2006*, Paul Smith
 2:20 pm - 2:40 pm *Overview of Geoscience Information Services*, Norman Lyttle
 2:40 pm - 2:50 pm *Current Focus and Future Direction for Geological Mapping and Geochemistry*, Rob Naylor
 2:50 pm - 3:10 pm *Advances in Understanding the Geology of the Meguma Group*, Rick Horne and Chris White
 3:10 pm - 3:25 pm *Overview of Geochemistry Projects*, Terry Goodwin
 3:25 pm - 3:45 pm Coffee Break
 3:45 pm - 4:00 pm *Summary of Mineral Deposit Studies: Connecting the Dots*, Bob Ryan
 4:00 pm - 4:15 pm *Building Partnerships: Economic Development Opportunities for Industrial Minerals*, Garth DeMont
 4:15 pm - 4:30 pm *Tourism and Geology: Making the Most of our Geological Resources*, John Calder
 5:00 pm **Reception, hosted by the Hon. David Morse, Minister of Natural Resources, Cost \$10**

Friday, November 10

8:30 am - 12:00 pm	Registration
8:30 am - 3:00 pm	Displays Open (Commonwealth A)
8:30 am - 9:00 am	Coffee and Refreshments

Special Coal Session, Dedicated to the Memory of Dr. Peter A. Hacquebard

8:45 am - 9:00 am	<i>Dr. Peter A. Hacquebard, Gentleman and Scholar of Coal Geoscience</i> , Mike Avery, GSC-Atlantic, and John Calder
9:00 am - 9:20 am	<i>Geology of Nova Scotia's Coal Basins: Current Insight</i> , John Calder
9:20 am - 10:00 am	<i>Xstrata Coal: The North American Coal Scene and the Donkin Project</i> , Jeff Gerard and Darren Nicolls, Xstrata Coal
10:00 am - 10:20 am	Coffee Break, Sponsored by the Mining Society of Nova Scotia
10:20 am - 10:40 am	<i>Back to the Earth: Reclamation of Coal Mines in Nova Scotia</i> , Don Jones
10:40 am - 11:00 am	<i>Pioneer Coal: Lessons from Working with Communities</i> , Peter Orem, Conestoga-Rovers and Associates
11:00 am - 11:20 am	<i>Joggins, Coal Phoenix: From Former Coal-mining Town to the World Heritage Stage</i> , Jenna Boon, CREDA
11:20 am - 11:40 am	<i>Coalbed Methane Exploration and Development in Nova Scotia</i> , Arden Thompson, Stealth Ventures Ltd.
11:40 am - 12:00 pm	<i>Coal and the Environment: Limits and Possibilities of New Technologies</i> , Bill Richards, Emera/NSPI
12:00 pm - 2:00 pm	Lunch, Atlantic Ballroom, Keynote Speaker Allen Wright, the Coal Association of Canada: <i>Changing Dynamics of the Canadian Coal Industry</i> , Cost \$20.
3:00 pm	Conference Closed