

Atlantic Climate Change 2008

Risk, Responses and Tools for Action...

Westin Nova Scotian
Halifax, Nova Scotia
March 3 - 6, 2008

FINAL PROGRAM



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Welcome to the Atlantic Climate Change Conference 2008!

The conference organizing committee is proud to host our first Atlantic Climate Change Conference (2008) in Halifax, NS. This event will showcase over 50 presentations, panel discussions, keynote speakers, mini trade show and poster presentations.

We hope this event will be of value to the public, private sector, civic organizations and associations, researchers, science and business practitioners, infrastructure designers and policy decision makers.

It is our hope that registered delegates will come away with information that includes; energy choices, mitigation options, adaptation tools, carbon markets, natural resource management, corporate and public policy, and infrastructure decision making, risks, responses and rewards for doing so, practical outcomes, and useful opportunities.

Our conference committee has been working for a year on this event and we are pleased with the quality program we have developed for our participants.

Thanks from our committee...

*Ron Pelot, Dalhousie University
Cameron Ells, Cameron Consulting
Kyle MacKenzie, Environmental Canada
Andrew Henry, Dalhousie University
Sarah Lewis, CBCL Limited
Kyla Milne, NS Department of Energy
Ray Cote, Dalhousie University / Eco-Efficiency Centre
Gay Harley, Sea to Sky Visions
Richard Joseph, Environmental Services Association of NS
Pam Woodman, Environmental Services Association of NS*

CONFERENCE OVERVIEW

MONDAY, MARCH 3, 2008

TIME	PRESENTATION	LOCATION
2:00 pm - 4:00 pm	Registration and Poster Board Set-up	Mezzanine, Westin Nova Scotian
7:30 pm - 9:00 pm	Lecture: An Inconvenient Truth, Carl Duivenvoorden	Dalhousie University, Potter Auditorium Kenneth C. Rowe Mgt. Building

TUESDAY, MARCH 4, 2008

TIME	PRESENTATION	LOCATION
8:00 am - 8:30 am	REGISTRATION (<i>Coffee served in poster presentations</i>)	Mezzanine, Westin Nova Scotian
8:30 am - 10:30 am	OPENING PLENARY SESSION	Atlantic Ballroom, Westin Nova Scotian
10:30 am - 11:00 am	BREAK (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
11:00 am - 12:00 pm	Land Use Planning and Adaptation	Atlantic Ballroom, Westin Nova Scotian
	Technical Tools for Mitigation	Maritime Rm, Westin Nova Scotian
	Climate Science and Modelling I	Lunenburg Rm, Westin Nova Scotian
12:00 pm - 1:30 pm	LUNCHEON with <i>Dave Phillips, Environment Canada</i>	Atlantic Ballroom, Westin Nova Scotian
1:30 pm - 3:00 pm	Fish, Farms and Forests I	Atlantic Ballroom, Westin Nova Scotian
	Managing Carbon in the Business World	Maritime Rm, Westin Nova Scotian
	Climate Science and Modelling II	Lunenburg Rm, Westin Nova Scotian
3:00 pm - 3:30 pm	BREAK (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
3:30 pm - 5:00 pm	Fish, Farms and Forests II	Atlantic Ballroom, Westin Nova Scotian
	Adaptation & Infrastructure with LIDAR	Maritime Rm, Westin Nova Scotian
	Civic and Community Responses	Lunenburg Rm, Westin Nova Scotian
5:00 pm - 8:30 pm	RECEPTION & ENERGY LECTURE (<i>shuttle bus available - pickup at Westin Lobby at 5:00 pm and drop off at 8:30 pm</i>)	Dalhousie University, Potter Auditorium Kenneth C. Rowe Mgt. Building

WEDNESDAY, MARCH 5, 2008

TIME	PRESENTATION	LOCATION
8:00 am - 8:30 am	CONTINENTAL BREAKFAST (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
8:30 am - 10:00 am	PLENARY SESSION	Atlantic Ballroom, Westin Nova Scotian
10:00 am - 10:30 am	BREAK (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
10:30 am - 12:00 pm	Energy Policy for Mitigation and Sustainability	Atlantic Ballroom, Westin Nova Scotian
	Coastal Impacts and Adaptation	Maritime Rm, Westin Nova Scotian
	Societal and Economic Issues I	Harbour Suite B, Westin Nova Scotian
12:00 pm - 1:00 pm	LUNCHEON	Atlantic Ballroom, Westin Nova Scotian
1:00 pm - 2:30 pm	Tools for Adaptation & Infrastructure	Atlantic Ballroom, Westin Nova Scotian
	Student Panel Session	Maritime Rm, Westin Nova Scotian
	Societal and Economic Issues II	Harbour Suite B, Westin Nova Scotian
2:30 pm - 3:00 pm	BREAK (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
3:00pm - 5:00 pm	Local / Regional Mitigation & Adaptation Plenary Panel Discussion	Atlantic Ballroom, Westin Nova Scotian

THURSDAY, MARCH 6, 2008

TIME	PRESENTATION	LOCATION
9:00 am - 12:00 pm	LIDAR WORKSHOP - Halifax Regional Municipality Workshop	Dalhousie University, Room G 70, Main Floor, Killam Memorial Library
1:00 pm - 4:00 pm	Incorporating Climate Change Adaptation into Design, Development, and Management Decision Making Workshop	Dalhousie, University, Executive Training Room 3089, Kenneth C. Rowe Mgt. Building

MONDAY, MARCH 3, 2008

TIME	PRESENTATION	LOCATION
2:00 pm - 4:00 pm	Registration and Poster Board Set-up	Mezzanine, Westin Nova Scotian
7:30 pm - 9:00 pm	An Inconvenient Truth , Carl Duivenvoorden	Dalhousie University, Potter Auditorium Kenneth C. Rowe Mgt. Building

TUESDAY, MARCH 4, 2008

TME	PRESENTATION	LOCATION
8:00 am - 8:30 am	REGISTRATION (<i>Coffee served in poster presentations</i>)	Mezzanine, Westin Nova Scotian
8:30 am - 10:30 am	<p>OPENING PLENARY SESSION <i>Welcome Remarks by Cameron Ells, Cameron Consulting</i> <i>Introductions by Richard Joseph, ESANS</i></p> <p>I - The Science of Climate Change <ul style="list-style-type: none"> • Gary Lines, Manager, Climate Change Section, Meteorological Service of Canada, Atlantic Operations Environment Canada </p> <p>II - Plenary Session <ul style="list-style-type: none"> • J. David Hughes, Leader, National Coal Resource Inventory Natural Resources Canada Environment, Groundwater and Sequestration, Geological Survey of Canada </p>	Atlantic Ballroom, Westin Nova Scotian
10:30 am - 11:00 am	BREAK (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
11:00 am -12:00 pm	<p>LAND USE PLANNING AND ADAPTATION - <i>Moderated by Kyle McKenzie</i></p> <ul style="list-style-type: none"> • From Theory to Practice: The Role of Municipal Land Use Planning in Climate Change Adaptation in Coastal Areas (Amber Nicol and Amanda Kosloski, Dalhousie University) • Overview of Climate Change Tools for Land Use Planning - MOVIE (Tamara Hill, Green Growth Group) <p>TECHNICAL TOOLS FOR MITIGATION - <i>Moderated by Chris Feetham</i></p> <ul style="list-style-type: none"> • Solar: A Renewable Heat Source (Janice Ashworth, Ecology Action Centre) • Carbon Capture and Storage: A Carbon Sense Solution to Climate Change (Robert Niven, Carbon Sense Solutions Inc.) <p>CLIMATE SCIENCE AND MODELLING I - <i>Moderated by Gary Lines</i></p> <ul style="list-style-type: none"> • Improving Statistical Downscaling of General Circulation Models Using Principal Components for Atlantic Canada (Lee Titus) • Multiscale Evaluation of the Space-Time Variability of Temperature Patterns in the Maritime Provinces of Canada (Yukari Hori and Cristian Suteanu, Saint Mary's University) 	Atlantic Ballroom, Westin Nova Scotian
12:00pm - 1:30 pm	<p>LUNCHEON <i>with guest speaker</i></p> <p>Dave Phillips, Environment Canada</p>	Atlantic Ballroom, Westin Nova Scotian
1:30 pm - 3:00 pm	<p>FISH, FARMS, AND FORESTS I - <i>Moderated by Peter Duinker</i></p> <ul style="list-style-type: none"> • Climate Change and Fisheries: A Socioeconomic Perspective on Impacts and Adaptation (Anthony T. Charles, Saint Mary's University) • Agriculture and Climate Change (Rob Gordon, N.S. Agricultural College) • Forestry and Climate Change (Mark Johnston, Sask. Research Council) 	Atlantic Ballroom, Westin Nova Scotian

	<p>MANAGING CARBON IN THE BUSINESS WORLD - Moderated by Chris Feetham</p> <ul style="list-style-type: none"> • Opportunities for Reducing Greenhouse Gas Emissions by Enhancing Energy Efficiency of Manufacturing Operations in Nova Scotia (Ray Côté and Gerry Archibald, Dalhousie University) • Developing An Integrated Carbon Measurement Strategy – Learning from a Case Study (Marty Janowitz, Jacques Whitford Limited) • Carbon Credits: Project Managing for Maximum Value (Gay Harley, Sea to Sky Visions) 	Maritime Room, Westin Nova Scotian
	<p>CLIMATE SCIENCE AND MODELLING II - Moderated by Gary Lines</p> <ul style="list-style-type: none"> • Feedback Modelling and Climate Change (Evan Davies and Slobodan P. Simonovic, University of Western Ontario) • A Synoptic Weather Typing Approach to Assess Climate Change Impacts on Meteorological/Hydrological Risks (Chad Shouquan Cheng, Qian Li, and Guilong Li, Environment Canada) • Climate Change in Atlantic Canada: Stylized Facts and Statistical Evidence (Yuri Yevdokimov, University of New Brunswick) 	Lunenburg Room, Westin Nova Scotian
3:00 pm - 3:30 pm	BREAK (Poster presentations)	Mezzanine, Westin Nova Scotian
3:30 pm - 5:00 pm	<p>FISH, FARMS, AND FORESTS II - Moderated by Peter Duinker</p> <ul style="list-style-type: none"> • Potential Impacts of Climate Change on Marine Fisheries of Eastern Canada (Gail L. Chmura, McGill University & Global Environment and Climate Change Centre) • Farm-level adaptation to climate change and variability: Nova Scotia farmers' perceptions, risks, and response strategies (Natasha Power, Department of Environmental Sciences, Nova Scotia Agriculture College) • Climate Change and Forest Distribution in Nova Scotia (Dr. Charles Bourque, University of New Brunswick) 	Atlantic Ballroom, Westin Nova Scotian
	<p>ADAPTATION & INFRASTRUCTURE WITH LIDAR - Moderated by John Heseltine</p> <ul style="list-style-type: none"> • LIDAR Mapping of Coastal Communities (Tim Webster, Angela Templin & Roger Mosher, NSCC) • Risk Assessment and Mitigation, Related to Coastal Processes (Mike Pearson, GeoNet Technologies Inc.) • Integrating science and planning practice for coastal adaptation to climate change in the Halifax Regional Municipality (John Charles / Roger Wells, Halifax Regional Municipality & Gavin Manson, NRCan) 	Maritime Room, Westin Nova Scotian
	<p>REGIONAL, MUNICIPAL, AND COMMUNITY LEVEL ADAPTATION - Moderated by Richard Joseph</p> <ul style="list-style-type: none"> • Adapting to Global Climate Change Using a Regional Approach: The OURANOS Consortium (Alain Bourque, OURANOS) • Assessing Vulnerability and Developing Adaptation Strategies at the Municipal Level - Experiences in Ontario (Allan Douglas, Ontario Centre for Climate Impacts and Adaptation Resources) • Chapel Island First Nation Climate Change Impacts & Adaptations Project (Michelle Adams, Eco Innovations) 	Lunenburg Room, Westin Nova Scotian
5:00	Transportation to Dalhousie (shuttle bus available - pickup at Westin Lobby at 5:00 pm and drop off at 8:30 pm)	Meet at Westin Hotel Lobby for shuttle
5:00 pm - 6:30 pm	DALHOUSIE RECEPTION	Dalhousie University, Potter Auditorium Kenneth C. Rowe Mgt. Building
6:30 pm - 8:30 pm	<p>ENERGY AT DAL - PUBLIC LECTURE Dr. John Nyboer, Canadian Industrial Energy End-use Data and Analysis Centre</p>	Dalhousie University, Potter Auditorium Kenneth C. Rowe Mgt. Building

WEDNESDAY, MARCH 5, 2008

TIME	PRESENTATION	LOCATION
8:00 am - 8:30 am	CONTINENTAL BREAKFAST (Poster presentations)	Mezzanine, Westin Nova Scotian

8:30 am - 10:00 am	<p>PLENARY SESSION <i>Welcome Remarks by Cameron Ells, Cameron Consulting</i> <i>Introductions by Richard Joseph, ESANS</i></p> <ul style="list-style-type: none"> • Risk Management, George Boire, VP Marsh Insurance • Adaptation Tools, Michel Girard, CSA • Pam Kertland, NRCan 	Atlantic Ballroom, Westin Nova Scotian
10:00 am - 10:30 am	BREAK (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
10:30 am - 12:00 pm	<p>ENERGY POLICY FOR FOR MITIGATION AND SUSTAINABILITY - Moderated by Anne Warburton</p> <ul style="list-style-type: none"> • The Energy Use Connection - Addressing Climate Change Impacts Through Community Energy Planning (Stephen King, Halifax Regional Municipality) • Nova Scotia Sources in 2020 (Dan Roscoe, Scotia Windfields) • Pathway to Sustainable Energy Prosperity (Brendan Haley, Ecology Action Centre) 	Atlantic Ballroom, Westin Nova Scotian
	<p>COASTAL IMPACTS, ADAPTATION, AND MITIGATION - Moderated by Gavin Manson</p> <ul style="list-style-type: none"> • Vulnerability of Eastern Quebec Coastal Communities to Climate Changes (Jean-Pierre Savard, OURANOS) • Impacts of Sea Level Rise and Climate Change on the Coastal Zone of Southeastern New Brunswick (Gary Lines, Environment Canada Atlantic) • Climate Change Adaptation Options for Coastal Zone Management in the Great Lake Basin (Peter Nimrichter, AMEC) 	Maritime Room, Westin Nova Scotian
	<p>SOCIETAL AND ECONOMIC I - Moderated by Ron Pelot</p> <ul style="list-style-type: none"> • Assessing Health Vulnerabilities of Canadians to a Changing Climate (Peter Berry, Health Canada) • Defence and Security Aspects of Climate Change (Dave Chapman, Defence R and D Canada) • Applying Public Sector Resources to Climate Change Adaptation in Canada (2007) (Cameron Ells, Cameron Consulting) 	Harbour Suite B, Westin Nova Scotian (downstairs behind lobby front desk)
12:00 pm - 1:00 pm	BUFFET LUNCH (<i>buffet located with poster presentation</i>)	Mezzanine, Westin Nova Scotian
1:00 pm - 2:30 pm	<p>TOOLS FOR ADAPTATION AND INFRASTRUCTURE - Moderated by Pam Kertland</p> <ul style="list-style-type: none"> • ClimateSMART - HRM's Response to Climate Change (Rob Young, Dillon Consulting) • Climate Change Planning Tools for First Nations: User-Friendly Guidebooks for Community-Driven Adaptive Action (Lisa Hardess, Centre for Indigenous Environmental Resources) • Incorporating Climate Change Adaptation into Design, Development, and Management Decision Making (Cameron Ells, Cameron Consulting) 	Atlantic Ballroom, Westin Nova Scotian
	<p>STUDENT PANEL - Moderated by Rob Gordon A Student Perspective from Local to Global</p> <ul style="list-style-type: none"> • Jessica Wishart, Dalhousie University • Rachel Caroline Derrah, Dalhousie University • Lise Richard, St. Francis Xavier University • Andrew MacDougall, St. Francis Xavier University • Brennan Vogel, Saint Mary's University 	Maritime Room, Westin Nova Scotian
	<p>SOCIETAL AND ECONOMIC II - Moderated by Ron Pelot</p> <ul style="list-style-type: none"> • The Bottom Line of Going Green: Costs, Benefits and Risks of Corporate Capital Investment in Pollution Abatement. (Shelley MacDougall, Acadia University) • A Simulation Tool for Integrating Climate Change and Canadian Surface Transport: Towards Assessing Impacts and Adaptations (Pavlos Kanaroglou, McMaster University) • Climate Change and Sustainability of the Carbon Sink in Maritime Salt Marshes (Gail L. Chmura, McGill University) 	Harbour Suite B, Westin Nova Scotian (downstairs behind lobby front desk)

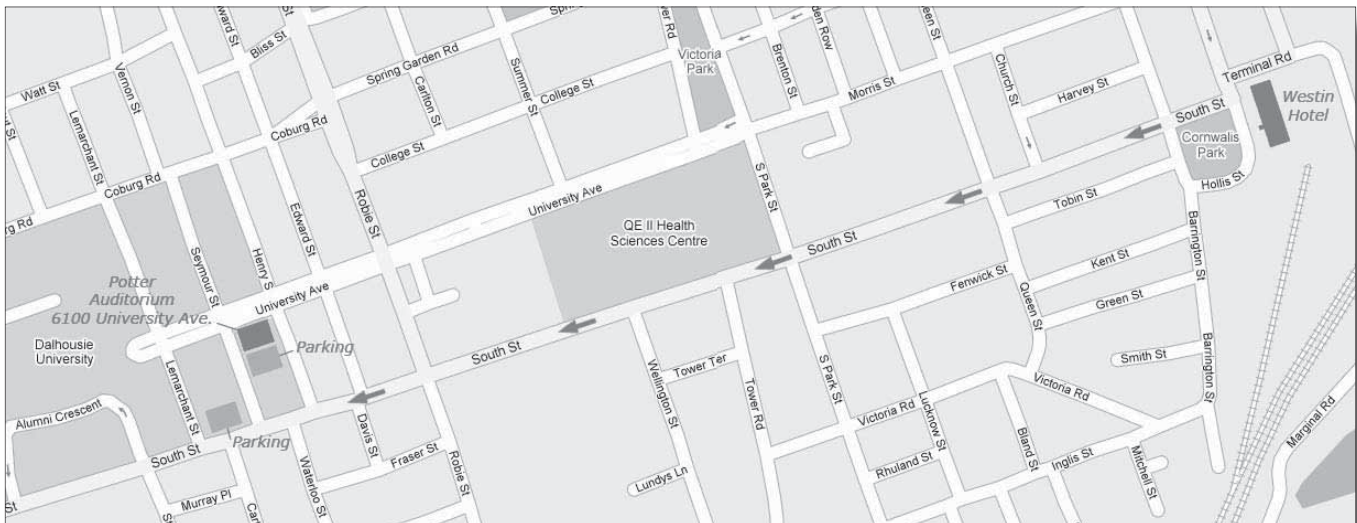
2:30 pm - 3:00 pm	BREAK (<i>Poster presentations</i>)	Mezzanine, Westin Nova Scotian
3:00 pm - 5:00 pm	LOCAL / REGIONAL MITIGATION & ADAPTATION PLENARY <ul style="list-style-type: none"> • Al Douglas, Ontario Government • Alain Bourque, Ouranos • Jenny Fraser, Government of British Columbia • George Foote, Nova Scotia Department of Energy • Brendan Haley, Ecology Action Centre • David Hughes, NRCan • Stephen King, Halifax Regional Municipality 	Atlantic Ballroom, Westin Nova Scotian
5:00 pm - 5:15 pm	CLOSING REMARKS	Atlantic Ballroom, Westin Nova Scotian

THURSDAY, MARCH 6, 2008

**POSTER PRESENTATIONS PROGRAM
MARCH 4 - 5, 2008**

Location: Mezzanine, Westin Nova Scotian
Impacts of Sea Level Rise and Climate Change on the Coastal Zone of Southeastern New Brunswick (Gary Lines or Kyle McKenzie)
Atlantic Agriculture and Climate Change (Jeff Belland or Kyle McKenzie)
Atlantic Coastal Trails and Boardwalks and Climate Change (Kyle McKenzie, Philana Dollin, and Ryan Hennessey)
Atlantic Communities and Climate Change (Jeff Bell and Kyle McKenzie)
Atlantic Energy Sector and Climate Change (Jeff Bell and Kyle McKenzie)
Atlantic Forests and Climate Change (Jeff Bell and Kyle McKenzie, and Ryan Hennessey)
Atlantic Water Resources and Climate Change (Chantal Gagnon, Kyle McKenzie, and Ryan Hennessey)
Climate Change and Sea Level Rise in Newfoundland and Labrador (Norm Catto, Memorial University of Newfoundland)
Climate Change and Coastal Erosion in Newfoundland (Norm Catto, Memorial University of Newfoundland)
Climate Change and the City of Saint John (Ian Reeves and Tim Vickers, Atlantic Coastal Action Program)
Encouraging Nova Scotia's coastal communities to take a proactive approach towards the management of risks associated with sea level rise. (Elissa Gollan, Clean Nova Scotia)
Living in a Changing Climate: Canadian Agriculture, Canada's Coastal Zone, Canada's forest, Canada's Water Resource, and Health of Canadians (C-CIARN)

Map from Westin to Dalhousie University



BIOS

LUNCHEON KEYNOTE SPEAKER

David Phillips - Senior Climatologist, Environment Canada



David has been employed with Environment Canada's weather service for 40 years. His work activities relate to the study of the climate of Canada and to promote awareness and understanding of weather and climate in Canada. He has published several books, papers and reports on the climate of Canada.

For nearly ten years he wrote the Weather-wise column in the Canadian Geographic magazine. David frequently appears on national radio and television as a commentator on weather and climate matters. He is well-known as the expert on The Weather Network.

David is a fellow of both the Royal Canadian Geographical Society and the Canadian Meteorological and Oceanographic Society. He has been awarded the Patterson Medal for Distinguished Service to Meteorology in Canada, and has twice received the Public Service Merit Award. David is the recipient of two honorary doctorates from the University of Waterloo and Nipissing University. In 2001, David was named to the Order of Canada.

David Hughes

David Hughes is a geologist with 35 years experience studying the energy resources of Canada for the Geological Survey of Canada and the private sector. He is the Leader of the National Coal Inventory, which is a digital knowledge base on coal used to determine the availability of resources for conventional and non-conventional uses, including coalbed methane production and the sequestration of CO₂. He is also Team Leader for Unconventional Gas for the Canadian Gas Potential Committee, an organization which publishes Canada's most authoritative assessments of National natural gas potential. David's evolving analysis of global and North American energy issues has been presented across Canada, the United States and Internationally to Federal, State, Provincial and Municipal agencies, to industry groups and to the general public. Aspects of his analysis have also been taken up by the popular press and trade journals including the Toronto Star, Canadian Business Magazine, the Canadian Press wire service, Globalpublicmedia and innumerable internet sites.

Gary Lines

Mr. Lines completed his Bachelor of Science (BSc) Degree at Dalhousie University in 1974 and BSc in Meteorology in 1975 in Toronto. His career with Environment Canada has taken him to Alberta and the Atlantic Provinces as a weather forecaster, lead meteorological instructor at the Transport Canada Training Institute in Cornwall, Ontario and Manager of the Meteorological and Oceanographic Centre (MetOc) at the Canadian Naval Dockyard in Halifax. His meteorological experience spans 25 years and, geographically, most areas of Canada and offshore.

In February of 2000 Mr. Lines joined the Climate Change Division (CCD) of Environment Canada Atlantic as a climate change meteorologist. His first assignments included development of presentation material on the science and impacts of climate change in Atlantic Canada. In order to properly deliver that material, Mr. Lines has led or participated in many climate change science and impact studies focused on the expected changes for Atlantic Canada and has published 2 regional technical papers detailing those changes.

In 2006, Mr. Lines was appointed the Manager of the Climate Change Section in Meteorological Service of Canada Atlantic Operations to focus on the science, impacts and adaptation issues related to climate change in Atlantic Canada. He continues to work on all aspects of regional and global climate change and he has become a regional science resource on that topic. He continues to deliver outreach presentations on climate change in Atlantic Canada, averaging nearly 20 presentations a year.

2008 Atlantic Climate Change Conference: Risks, Responses, and Tools for Action Halifax, Nova Scotia March 6, 2008

*Workshop on utilising Lidar applications for integrating science and planning practice for coastal
climate change adaptation and mitigation.*

Thursday, March 6, 2008

8:30 - 11:45 am

Room G 70, Main Floor, Killam Memorial Library, Dalhousie University

Workshop Summary

Join other GIS professionals, academic researchers, government and private sector officials, and planning and engineering consultants to learn more about the practical application of Lidar based data for coastal climate change adaptation and mitigation.

Workshop staff will provide a detailed technical account of the development of a GIS based model to predict the impacts of sea level rise and storm surges as well as demonstrations of additional Lidar data uses.

Content

The workshop will include presentations, demonstrations, and discussions on:

- Sea level rise and storm surge modelling.
- Developing RFPs and contracts for Lidar services.
- Lidar processing software.
- Potential land use policy impacts of Lidar research.
- Alternate uses of Lidar data for land use planning and research purposes such as: archaeological research, transportation planning, 3D modelling of buildings, urban forestry, and watershed planning.
- Staff training, data sharing, and partnership opportunities to enable ongoing research and development of Lidarbased applications.

Workshop Staff

Gavin Manson and Dustin Whalen

Research Scientists
Geological Survey of Canada, Natural Resources Canada

Roger Wells

Manager, HRM Regional Plan Office

John Charles

Planner, HRM Real Property Planning

Darren Talbot

GIS Technician, HRM GIS Services

Allyson Fox

Lidar Specialist, Advanced Geomatics Research Group
Centre of Geographic Sciences

James Boxall

Director and Curator, GIS Centre and Map Collection
Killam Memorial Library, Dalhousie University

Workshop Agenda

8:30 am Welcome, introductions

8:45 Project overview

9:15 Q&A

9:30 Processing Lidar data

10:00 Break

10:15 RFP and Contract development

10:30 Lidar product demonstration

11:00 Group discussion (Lidar applications/R&D, partnership opportunities, data sharing, training)

11:40 Concluding remarks

Atlantic Climate Change Conference 2008

Incorporating Climate Change Adaptation into Design, Development, and Management Decision Making

March 06, 2008 Afternoon Workshop

This workshop is intended to be an extended, hands-on, example scenario application of the themes presented in the conference presentation of the same name. This workshop discusses some decision making tool documents. Particular emphasis is placed on practical approaches and limitations for infrastructure decision makers - designers, owners, managers, planners, insurers, and those having financial responsibilities.

A breakdown is made of the components of an evaluation of the relationship between the infrastructure of interest, the relevant climate and other changes, and the most relevant performance criteria during the infrastructure life cycle. An approach is presented for prioritizing the order in which numerous potential relationships are further evaluated. The sources, availability, and relative cost of desired information is discussed.

Considerations are made for socio-economic, bio-physical, and financial-monetary type impacts. Qualitative and quantitative types of evaluations are reviewed, and where applicable, so are vulnerability and adaptive capacity calculations. An approach is presented for prioritizing the order in which climate change adaptation options are evaluated - between different types of infrastructure, and between multiple examples of similar infrastructure.

A risk management type of approach is presented for climate change evaluation recommendations for information actions, for management actions, for corrective actions, and for circumstances that may require no further action.

Course Presenter:

Cameron Ells, P.Eng.
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The logo for Cameron Consulting, featuring the company name in white serif font on a red rectangular background.

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