

BoFEP and the Fundy Workshops

The Bay of Fundy Ecosystem Partnership (BoFEP) evolved out of an initiative in 1995 to bring together scientists, resource managers, community groups, business interests and indeed anyone interested in working towards the continuing well-being of the Bay, its ecosystems and its coastal communities. BoFEP facilitates the timely sharing of information about the changing state of the Bay, promotes discussion about the problems confronting it and encourages cooperation in research, conservation, community action and policy making initiatives that address these problems. The biennial Bay of Fundy Workshops are an important part of these ongoing efforts.

Workshop sponsors

- *The Bay of Fundy Ecosystem Partnership*
- *Environment Canada - Atlantic Region*
- *Fisheries and Oceans Canada*
- *The Bay of Fundy Marine Resource Centre*
- *Acadia University*
- *The Acadia Centre for Estuarine Research.*

And in Partnership with

Offshore Energy Environmental
Research Association (OEER)

Citizen's Forum

A network of community and other organizations will convene a public forum just prior to the BoFEP Workshop. It will consider the implications of present and future industrial developments in and around Fundy on the well-being of coastal communities, as well as discuss how residents can be kept informed and participate meaningfully in decisions pertaining to such developments. For more information contact: arthbull@tartannet.ns.ca

Organizing Committee Workshop Chair - Anna Redden

Committee Members

Gary Bugden
Arthur Bull
Mick Burt
Graham Daborn
Marianne Janowicz
Leanna McDonald
Kathryn Parlee
Jon Percy
Ashley Sprague
Peter Wells



The host for the 8th BoFEP Science Workshop is the Acadia Centre for Estuarine Research. ACER was established in 1985 as a separate research unit within the Faculty of Pure and Applied Science at Acadia University. The primary objective of the Centre is to conduct research on estuaries and nearshore coastal waters, particularly the estuarine systems of the Bay of Fundy and Gulf of Maine. For more information about ACER visit:

<http://science.acadiau.ca/cer/home.htm>

**For up-to-date
Workshop information visit
www.bofep.org/workshop2009.htm**

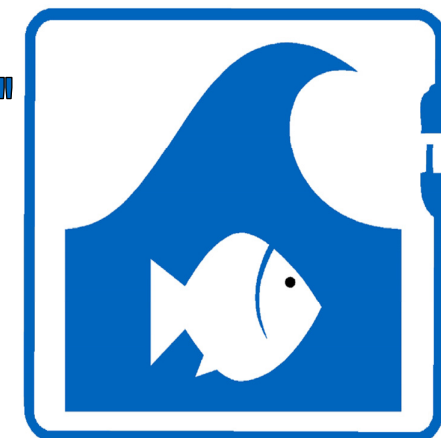
Or contact:

E-mail: workshop@bofep.org
Telephone: (902)585-1113
Fax: (902)585-1054



8th BoFEP Bay of Fundy Science Workshop

"Resource Development
and its Implications in the
Bay of Fundy and Gulf of Maine"



May 26 - 29, 2009

**Acadia University
Wolfville
Nova Scotia**

Preliminary
PROGRAM

Resource Development and the Bay of Fundy

The theme for the 6th Bay of Fundy Workshop, to be held from May 26th to May 29th, 2009, is "*Resource Development and its Implications in the Bay of Fundy and Gulf of Maine*". This topic is crucial and timely given the many development projects proposed or already underway in and around the Bay of Fundy - quarries, LNG terminals, aquaculture sites, subsea pipelines and subterranean gas storage to name just a few. And once again the prospect of harnessing Fundy's immense tidal flows to produce "clean" electricity is generating interest, excitement and apprehension.

Appropriately, the 8th workshop will be held at Acadia University and hosted by the Acadia Centre for Estuarine Research. Almost a century ago, researchers at Acadia launched one of the earliest projects to produce electricity from Fundy's tidal currents. For many decades, the Acadia Centre for Estuarine Research has been studying the unique marine environment of the upper Bay and has been at the forefront of efforts to understand how various industrial developments, such as the harnessing of tidal energy, will influence the productive ecosystems that sustain the many coastal communities around the Bay of Fundy

A large number of papers and posters have been submitted for this 8th BoFEP Bay of Fundy Workshop. These have been grouped in the following theme sessions:

Paper (oral) Sessions

- A. Tidal Power
- B. Salt marsh Research and Restoration
- C. Indicators and Decision Support Tools
- D. Coastal Zone Information Management
- E. Intertidal Ecology
- F. Fisheries and Aquaculture
- G. Watersheds
- H. Other Industrial Activities
- I. Conservation Ecology

Poster Sessions

- J. Ecology
- K. Information
- L. Conservation
- M. Fish & Fisheries
- N. Contaminants

The papers included in each of these sessions, and their presentation times, are listed on pages 5-7 and 10-15. There is an overview of the complete Workshop Program on pages 9-10.

We invite you to come, contribute to, learn from and enjoy this 8th BoFEP Workshop.

8th BoFEP Science Workshop Principal Venues

48.* Festival Theatre [Citizen's Forum, Registration, Opening Reception, Plenary Presentations, concurrent sessions Posters/displays]

1. Beveridge Arts Centre [Concurrent sessions]

11. Wheelock Dining Hall [Meals]

27. Roy Jodrey Hall [Residence]

Off-campus - **Old Orchard Inn** [Banquet, Awards, Dance, Music]

* Building Number as referenced on the Acadia University campus map available at:

http://www.bofep.org/temporary/acadia_campusmap.pdf

Workshop Keynote Speakers

Gordon Fader - (*Plenary keynote presentation 1*), is a professional Marine Geologist and the President of Atlantic Marine Geological Consulting Ltd. He retired from the Geological Survey of Canada, at BIO, in 2004 and was appointed an Emeritus Scientist. He was educated at St. Mary's, Dalhousie and the Technical University of Nova Scotia and he was the first Graduate in Geology from St. Mary's in 1969. He was responsible for seabed mapping and research on sediments and shallow bedrock geology publishing over 300 scientific papers, and has given over 800 presentations during his career. He is presently writing a book on Halifax Harbour and consulting on the development of tidal power in the Bay of Fundy.

Michael Stokesbury - (*Plenary keynote presentation 2*), is a marine biologist and Director of Research for the Ocean Tracking Network at Dalhousie University. His research focuses on the study of movement and behaviour of large marine predators through the use of satellite, archival and acoustic tagging equipment. He has published several tracking studies including migrational and behavioural research on Atlantic salmon and Greenland sharks and co-authored a paper in "Nature" on the Atlantic bluefin tuna population structure.

Rob Thompson (*Plenary keynote presentation 3*), Director, Atlantic Service Centre, Parks Canada, Halifax, NS, has worked for Parks Canada for over 30 years in a variety of positions. For most of these years, he worked in the Atlantic Regional Office as a planner for national historic sites and national parks throughout Atlantic Canada. He became Manager of the Planning section in the 1990s, and in 2003 he accepted a position as Director, Atlantic Service Centre. The ASC has a variety of professional and technical staff providing services to national parks and national historic sites in Atlantic Canada related to resource conservation, cultural resource management, planning, social science, visitor experience, external relations, education, etc.

Terri McCulloch (*Banquet presentation*) is the Manager of Bay of Fundy Tourism, a unique-in-Canada style partnership involving two provincial tourism departments and the tourism industry. The organization's objectives are to deepen Bay of Fundy connections for both visitors and residents, as well as to raise the profile of the Bay of Fundy as a Canadian nature tourism icon. Under Terri's leadership Bay of Fundy Tourism won a national award for sustainable tourism as well as many honours from the two provinces and the Gulf of Maine Council. Terri is an hiker, blogger & amateur photographer who lives, works and thrives in Parrsboro, Nova Scotia. (and is an Acadia grad!)

Workshop Program Overview

- 3. Managing Tidal Change. *Natasha J. Barker.*
- 4. Preliminary Implementation of a Hydrologic Flood Model to Simulate Overtopping of a Dyke in the Bay of Fundy. *Casey O’Laughlin.*

SESSION M. FISH & FISHERIES

- 1. Clam Management in the Bay of Fundy: Comparing Nova Scotia and New Brunswick. *Melissa S Landry on behalf of the Coastal CURA team.*
- 2. Evaluation of short-term changes in rockweed (*Ascophyllum nodosum*) following harvesting in Maine. *Tom Trott.*
- 3. The Minas Basin Lobster Stock, Its Fishery and the Movements of Tagged Lobsters. *Michael Dadswell, Anna ReddenI, and Angelica Lockhart-Bastien.*
- 4. Tidal Energy Development: Developing a conceptual framework for the integration of environmental and socio-economic impact information for management decisions, with particular reference to the lobster fishery in the upper Bay of Fundy. *Patricia Hinch.*
- 5. Population Characteristics and Movement of Atlantic sturgeon (*Acipenser oxyrinchus*) which aggregate in Minas Basin, Bay of Fundy during Summer. *Sierra Wehrell, Anna Redden and Michael Dadswell.*

SESSION N. CONTAMINANTS

- 1. Bioaccumulation of methylmercury in the food web of the Bay of Fundy, Gulf of Maine. *Gareth Harding, John Dalziel and Elsie Sunderland,*
- 2. The Mercury Flux of an east coast marine embayment. *John Dalziel, Gareth Harding, and Elsie Sunderland.*
- 3. Sixteen Years of contaminant monitoring in the Gulf of Maine and Bay of Fundy by Canada and the United States; 1993 to 2006. *Gareth Harding, Barbara Arter, Jamie Aube, Cynthia Bourbonnaise-Boyce, Guy Brun, Peter Hennigar, Christian Krahforst, David Page, Stephen Jones, Susan D. Shaw, James Stahlnecker, Jack Schwartz Darrell Taylor, Bruce Thorpe, Peter Vass, and Peter Wells.*
- 4. Response of *Ilyanassa obsoleta* to the presence of chemicals including chlorothalonyl, endosulfan, hexazinone and pyrene. *Leslie Saunders, Sarah Erskine, Shaylynn MacLeod, Stephen Marklevitz, Daniel Beach and Jocelyne Hellou.*
- 5. Tracing the exposure of snails to anthropogenic organic compounds. *Daniel Beach, Sarah Erskine, Leslie Saunders, Michael Quilliam and Jocelyne Hellou.*
- 6. Detecting Dissolved Organic Matter Using Airborne Laser Fluorescence in the Annapolis Watershed, Nova Scotia, Canada. *Stephanie Rogers, Timothy Webster and Mike Brylinsky.*

Tuesday May 26th

- 09:00 - 12:00 Citizen’s Forum
- 12:00 - 14:00 Lunch (*on your own*)
- 14:00 - 17:00 Citizen’s Forum (*continued*)
- 16:30 - 19:30 BoFEP registration open. Set up displays and posters
- 17:00 - 19:30 Supper (*on your own*)
- 19:30 - 21:30 **Workshop Opening Reception** - Welcome, music, refreshments and cash bar.

Wednesday May 27th

- 08:00 - 08:45 Set up displays and posters (*Atlantic Festival Theatre*)
- 08:45 - 09:10 Welcome and opening remarks
- 09:10 - 10:00 Plenary keynote presentation: “*The Seabed of Minas Passage and its Relationship to Tidal Power Development*”. Gordon Fader, Atlantic Marine Geological Consulting Ltd., Halifax, NS.
- 10:00 - 10:20 *Nutrition break*
- 10:20 - 10:40 Plenary papers session (session A)
- 10:40 - 12:20 Plenary paper session (session A *cont.*)
- 12:20 - 14:00 Lunch (*on your own*)
- 14:00 - 16:00 Two concurrent paper sessions (Sessions A *cont.*, B)
- 16:00 - 16:20 *Nutrition break*
- 16:20 - 18:00 “*BoFEP into the Future*” Meeting
- 18:00 - 19:30 Supper (*on your own*)
- 19:30 - 22:00 Public Forum on Tidal Energy followed by Social Event

Thursday May 28th

- 08:45 - 09:35 Plenary keynote presentation. “*Using Multi-Species Electronic Tagging and Tracking Technology to Better Understand Animal Behaviour and Ocean Physics*”. Michael Stokesbury, Faculty of Science, Dalhousie University, Halifax, NS
- 09:50 - 10:50 Three concurrent paper sessions (Sessions C, D, E)
- 10:50 - 11:10 *Nutrition break*
- 11:10 - 12:30 Three concurrent paper sessions (Sessions C *cont.*, D *cont.*, E *cont.*)
- 12:30 - 14:00 Lunch (*on your own*)
- 14:00 - 15:20 Three concurrent paper sessions (Sessions D *cont.*, E *cont.*, F)
- 15:30 - 18:00 Campus Tours; Group Meetings; Mini Geomatics Workshop
- 18:30 - 20:30 **Workshop Banquet:** Awards for the best student papers and posters presented at the Workshop and the BoFEP Environmental Stewardship Award .
Keynote Presentation
- 20:30 - 22:30 Social: Dance/Music/Cash Bar.

Friday May 29th

- 08:45 - 09:35 Plenary keynote presentation. “*Parks Canada National Marine Conservation Area Program - An Overview*”. Rob Thompson, Parks Canada, Halifax, NS.
- 09:50 - 10:50 Three concurrent paper sessions (Sessions F *cont.*, G, H)
- 10:50 - 11:10 *Nutrition break*
- 11:10 - 12:10 Three concurrent paper sessions (Sessions F *cont.*, G *cont.*, I)
- 12:15 - 13:00 Plenary synthesis and workshop closing

*This weekend (May 29 - June 1) features
the “77th Apple Blossom Festival” in the Annapolis Valley.
You might want to consider taking in some of the events in the area.
For more information visit:
<http://www.appleblossom.com/>*

2. Diel and Semi-lunar Cycles in the Swimming Activity of the Amphipod *Corophium volutator* in the Upper Bay of Fundy. *David Drolet and M.A. Barbeau*
3. Effects of Density of the Amphipod *Corophium volutator* on Sediment Properties. *Amanda M. Savoie, M.A. Barbeau and Katy Haralampides*
4. Abundance of Ribbed Mussels (*Geukensia demissa*) in Salt Marshes Located in Contrasting Tidal Regimes: Northumberland Strait vs Upper Bay of Fundy. *L.K. Bursey and M.A. Barbeau*
5. Monitoring Long-term Change in Infaunal Diversity, Abundance and Distribution in Minas Basin Mudflats. *Sylvia Dove, Anna Redden and Glenys Gibson.*
6. The Changing Sands of Biodiversity in the Minas Basin (Bay of Fundy, Canada). *Claire Coulter, Anna Redden and Glenys Gibson.*
7. A Disappearing Act? Monitoring Eelgrass (*Zostera marina*) decline in Kejimikujik National Park, Nova Scotia, Canada. *Aimée Pelletier, Kristina Benoit, Chris McCarthy and Bill Freedman.*

SESSION K. INFORMATION

1. Use of Scientific Information in Decision Making for Effective Marine/Coastal Resource and/or Environmental Management. *Suzette Soomai.*
2. The Gulf of Maine Council on the Marine Environment: An Investigation of the Use of Its Grey Literature Publications. *Bertrum H. MacDonald, Peter G. Wells, & Ruth E. Cordes.*
3. From Science to Policy and Decision Making: Investigating the Use and Influence of Marine Environmental Grey Literature. *Bertrum H. MacDonald, Peter G. Wells, Ruth E. Cordes, Gregory R.G. Hutton, Julie Woods, and Suzette Soomai.*
4. Tracking the Use and Influence of Marine Environmental Information – Applying Methodologies from an Intergovernmental Agency Case Study. *G. R.G. Hutton.*
5. Bay of Fundy Ecosystem Partnership (BoFEP) – Creating, Sharing and Using Knowledge on the Bay of Fundy Coastal Ecosystem. *Jon A. Percy, P.G. Wells, M. J. Janowicz, B.C. Jones, and P.R. Hinch - (on behalf of the Management and Steering Committees of BoFEP).*

SESSION L. CONSERVATION

1. Taking stock of current conservation levels on the Scotian Shelf and Bay of Fundy. *Graham Bondt.*
2. Conservation Monitoring of a World Heritage Site. *Melissa Grey, Jenna Boon, and Melanie Cookson-Carter.*

- 10:30 - 10:50 **G3.** Social Network Analysis of Water Management Regime in the Annapolis and Cornwallis River Watersheds: A Tool for Comparative Analysis of Watershed Management Regimes. *Shawn Dalton.*
- 10:50 - 11:10 *Nutrition break*
- 11:10 - 11:30 **G4.** The Kings County Lake Monitoring Program, Nova Scotia. *Ben Sivak.*
- 11:30 - 11:50 **G5.** The Greencover Project: Riparian zone restoration for improvement of water quality in an agricultural landscape. *Mike Brylinsky, Glen Parsons and Randy Milton.*
- 11:50 - 12:10 **G6.** Integrating Environmentally Sustainable Grassland into the Acadian Landscape. *O.T. Bouman*

SESSION H. OTHER INDUSTRIAL ACTIVITIES

Friday, May 29th

- 09:50 - 10:10 **H1.** Georges Bank Moratorium Review. *Bruce Cameron.*
- 10:10 - 10:30 **H2.** Understanding Influence: Lessons from Canada's and Nova Scotia's 1999 Georges Bank Moratorium Decision. *Lucia M. Fanning.*
- 10:30 - 10:50 **H3.** Potential adverse effects of mining near the Bay of Fundy. *M. A. Mahtab, R. W. Morsches and Raymond Parker.*

SESSION I. CONSERVATION ECOLOGY

Friday, May 29th

- 11:10 - 11:30 **I1.** A Talking Circle on Cooperation, Awareness and Conservation. *Hugh Akagi and Marianne Janowicz*
- 11:30 - 11:50 **I2.** Safeguarding the Bay of Fundy: Opportunities for Marine Conservation. *Ashley J. Sprague.*
- 11:50 - 12:10 **I3.** Youth Engagement in Local Conservation Issues in Bay of Fundy and Gulf of Maine Communities, Nova Scotia, Canada. *Jonathan Feldgajer, Ashley Sprague.*

POSTER SESSIONS

SESSION J. ECOLOGY

1. Learning to crawl before learning to walk - Macro- & meso-tidal wetland restoration (compensation) in Atlantic Canada. *Nancy C. Neatt, Tony M. Bowron, Danika van Proosdij, Jeremy Lundholm, and Robert Pett.*

SCIENTIFIC PAPER SESSIONS

SESSION A. TIDAL POWER

Wednesday May 27th

- 10:00 - 10:20 **A1.** Insight into the Glacial History of the Bay of Fundy Revealed through Sea Floor Mapping using Multibeam Sonar. *Brian J. Todd, John Shaw, D. Russell Parrott, and Vladimir E. Kostylev.*
- 10:20 - 10:40 *Nutrition break*
- 10:40 - 11:00 **A2.** Multibeam Bathymetry and LiDAR Surveys of the Bay of Fundy, Canada – progress to November 2008. *D. Russell Parrott, Brian J. Todd, John Shaw, Vladimir Kostylev, John E. Hughes Clarke, Jonathan Griffin, Michael Lamplugh and Timothy Webster.*
- 11:00 - 11:20 **A3.** Integrating Multibeam Bathymetry and LiDAR Surveys of the Bay of Fundy, using Isle Haute as an example. *T. Webster, D. Russell Parrott, David Colville, Nathan Crowell .*
- 11:20 - 11:40 **A4.** Assessment of Tidal Current Energy in the Minas Passage, Bay of Fundy. *Richard H. Karsten, Justine M. McMillan, Megan J. Lickley and Ronald D. Haynes*
- 11:40 - 12:00 **A5.** Currents in Minas Basin, Nova Scotia, Canada. *J. Bobbitt, S. Melrose, and W. Peng.*
- 12:00 - 12:20 **A6.** Catastrophic expansion of tidal range in the Bay of Fundy. *John Shaw, Carl L. Amos, David A. Greenberg, Charles T. O'Reilly, D. Russell Parrott, Brian J. Todd, Vladimir Kostylev, and Eric Patton.*
- 12:20 - 14:00 LUNCH (*on your own*)
- 14:00 - 14:20 **A7.** Hard Bottom Sublittoral Benthic Communities in northern Minas Passage, Bay of Fundy. *Patrick L. Stewart*
- 14:20 - 14:40 **A8.** Distribution and Morphology of Horse Mussel Beds in the Bay of Fundy identified using Multibeam Sonar. *Vladimir E. Kostylev, Colin Dickson, Russell Parrott, and Brian J. Todd.*
- 14:40 - 15:00 **A9.** The Atlantic Mud Piddock (*Barnea truncata* : Family Pholadidae) a relic warm-water species in the Minas Basin. *Andrew Hebda*
- 15:00 - 15:20 **A10.** Winter ice, sediment, marsh health and tidal turbines. *Elisabeth C. Kusters*
- 15:20 - 15:40 **A11.** FERN (Fundy Energy Research Network): Facilitating Cooperation in Fundy Tidal Power Research. *Graham R. Daborn and Anna Redden.*
- 15:40 - 16:00 **A12.** *Discussion*

SESSION B. SALT MARSH RESEARCH AND RESTORATION

Wednesday, May 27th

- 14:00 - 14:20 **B1.** Comparison of Vertical and Temporal Variations in Hydrodynamics on a Macro-Tidal Salt Marsh and Mudflat in the Minas Basin, Nova Scotia, Canada. *Casey O’Laughlin and Danika van Proosdij*
- 14:20 - 14:40 **B2.** The Influence of Vegetation on Sedimentary Processes in a Macro-tidal Salt Marsh. *Amber Silver and Danika van Proosdij*
- 14:40 - 15:00 **B3.** Macro-Tidal Salt Marsh Ecosystem Response to Culvert Expansion. *Tony M. Bowron, Nancy Neatt, Danika van Proosdij, Jeremy Lundholm and Jennifer Graham*
- 15:00 - 15:20 **B4.** A Tale of Two Macro Tidal Estuaries: Differential Morphodynamic Response of the Intertidal Zone to Causeway Construction. *Danika van Proosdij, Tim Milligan, Gary Bugden and Karl Butler.*
- 15:20 - 15:40 **B5.** Sea-Level Rise and Salt Marsh Restoration in the Bay of Fundy, Canada. *Jeff Ollerhead and Rosie Smith*
- 15:40 - 16:00 **B6.** Restoration of Ecosystem Services in Salt Marshes. *Gail L. Chmura, David M. Burdick and Gregg E. Moore*

SESSION C. INDICATORS AND DECISION SUPPORT TOOLS

Thursday, May 28th

- 09:50 - 10:10 **C1.** Coastal ecosystem health and integrity - selecting a core set of indicators for long term monitoring and reporting. *Peter G. Wells*
- 10:10 - 10:30 **C2.** Ecosystem Indicators and Tools in the Gulf of Maine. *Christine M. Tilburg, Susan Russell-Robinson, and Kathryn Parlee*
- 10:30 - 10:50 **C3.** Understanding Ecosystem Changes in the Gulf of Maine Marine Environment Through Climate Change Indicators. *Kyle McKenzie, Christine Tilburg, and Luc Vescovi.*
- 10:50 - 11:10 *Nutrition break*
- 11:10 - 11:30 **C4.** What’s the State of the Soft-Shell Clam (*Mya arenaria*)? Results from Coastal Ecosystem Monitoring at the Kejimikujik Seaside. *Aimée Pelletier and Chris McCarthy.*
- 11:30 - 11:50 **C5.** Bay of Fundy near-shore biodiversity: now part of the ‘big picture’. *Gerhard Pohle and L. Van Guelpen.*
- 11:50 - 12:10 **C6.** Habitat Mapping for Species at Risk in the Bay of Fundy. *Martha D.K. Baldwin, Jon Grant, Juan A. Manriquez, Anna Dorey and Joe Crocker.*

SESSION F. FISHERIES AND AQUACULTURE

Thursday, May 28th

- 14:00 - 14:20 **F1.** Population Characteristics, Movement and Angling of the Striped Bass (*Morone saxatilis*) Summer Aggregation in Minas Basin, Nova Scotia. *Jeremy E. Broome, K. Vaudry, A.M. Redden, and M.J. Dadswell.*
- 14:20 - 14:40 **F2.** The Checkered status of Bay of Fundy Striped bass. *R.G. Bradford, D.M. Campbell, and P. Bentzen*
- 14:40 -15:00 **F3.** Striped bass (*Morone saxatilis*) eggs and larvae in the Stewiacke/Shubenacadie River estuary 1997 to 2008. *Jim Duston and Craig Reesor.*
- 15:00 - 15:20 **F4.** *Discussion*

Friday, May 29th

- 09:50 - 10:10 **F5.** Groundline profiles on the Bay of Fundy lobster gear as a threat to North Atlantic Right Whales. *Sean Brilliant and Ed Trippel.*
- 10:10 - 10:30 **F6.** Macrozooplankton ecology of the Lurcher Shoal area (15 nm south of Brier Island). *F. J. Fife*
- 10:30 - 10:50 **F7.** Contemporary diagnosis of an intracellular parasite of cod: Application for investigating the life history of *Loma morhua*. *Aaron Frenette, Micheal S. Duffy, and Michael D. B. Burt.*
- 10:50 - 11:10 *Nutrition break*
- 11:10 - 11:30 **F8.** Establishing Aquaculture Research Objectives for Southwestern New Brunswick: Bringing Local Fisheries and Scientific Knowledge Together. *Donna G. Curtis*
- 11:30 - 11:50 **F9.** Aquaculture Leases on Closed Beaches: a Roadblock to Sustainable Shellfish Management? *M. G. Wiber and A. Bull.*
- 11:50 - 12:10 **F10.** Changes in Composition of Rockweed (*Ascophyllum nodosum*) Beds due to Possible Recent Increase in Sea Temperature in Eastern Canada. *Raul Ugarte*

SESSION G. WATERSHEDS

Friday, May 29th

- 09:50 - 10:10 **G1.** From the Headwaters to the Sea, Implementing a Watershed Approach in Southern Maine. *Christine Feurt.*
- 10:10 - 10:30 **G2.** Options for Managing Nova Scotia’s Water Resources at a Watershed-Scale. *Andy Sharpe and Jocelyne Rankin*

SESSION E. INTERTIDAL ECOLOGY

Thursday, May 28th

- 09:50 - 10:10 **E1.** Food Habits and Foraging Behaviour of Semipalmated Sandpipers (*Calidris pusilla*) During Migratory Stopover in the Upper Bay of Fundy, New Brunswick. *Matthew G. Ginn and Diana J. Hamilton.*
- 10:10 - 10:30 **E2.** Nocturnal Habits of Semipalmated Sandpipers (*Calidris pusilla*) and *Corophium volutator* on Bay of Fundy mudflats. *Beth MacDonald and Diana J. Hamilton.*
- 10:30 - 10:50 **E3.** Effects of Foraging Semipalmated Sandpipers on the Vertical Distribution of *Corophium volutator*. *Elisabeth H. Wallace and Diana J. Hamilton.*
- 10:50 - 11:10 *Nutrition break*
- 11:10 - 11:30 **E4.** The Effect of *Ilyanassa obsoleta* on the Vertical Distribution of *Corophium volutator* in Mudflat Ecosystems of the Bay of Fundy. *Miriam E. Coulthard and Diana J. Hamilton.*
- 11:30 - 11:50 **E5.** Effect of the Mud Snail (*Ilyanassa obsoleta*) on Vital Rates and Behaviour of the Amphipod, *Corophium volutator*. *M.R.S. Coffin, M.A. Barbeau and D.J. Hamilton.*
- 11:50 - 12:10 **E6.** Effects of Nutrient Availability, Snail Abundance and Shorebird Predation on an Intertidal Mudflat Community. *Anne V. Aubut, Diana J. Hamilton, Michael RS Coffin and Myriam A. Barbeau.*
- 12:10- 12:30 **E7.** Within-mudflat Variation in Density, Demography and Movement of the Amphipod *Corophium volutator* on the Mudflat of Pecks Cove, Upper Bay of Fundy. *David Drolet and M.A. Barbeau*
- 12:30 - 14:00 **Lunch (on your own)**
- 14:00 - 14:20 **E8.** Examining encounter rates of the nudibranch, *Onchidoris bilamellata* (L.) in relation to Mosimann random motion and Search Theory Models. *Amanda Mackenzie.*
- 14:20 - 14:40 **E9.** Status and Trends of Eelgrass in Eastern Canada. *Alan Hanson.*
- 14:40 - 15:00 **E10.** Mercury fate and biogeochemistry in coastal wetlands on the Minas Basin, Bay of Fundy. *N.J. O'Driscoll, J. Canário, J. Dalziel, R. Tordon, D. Risk, D and L. Kellman.*
- 15:00 - 15:20 **E11.** Presence, fates and effects of some organic contaminants: the case of a Minas Basin beach. *Jocelyne Hellou, Daniel Beach, Sarah Erskine, Jim Leonard, Stephen Marklevitz, Sarah Robertson, Brian Robinson and Leslie Saunders.*

- 12:10 - 12:30 **C7.** Bay of Fundy Species-at-Risk Mapping Tool: A compilation of aquatic Species-at-Risk distribution data for the purpose of predicting. *Joe Crocker.*

SESSION D. COASTAL ZONE INFORMATION MANAGEMENT

Thursday, May 28th

- 09:50 - 10:10 **D1.** The Atlantic Coastal Zone Information Steering Committee's Role as an Incubator and a Champion. *M.J.A. Butler and C. LeBlanc.*
- 10:10 - 10:30 **D2.** COINAtlantic: An Initiative of the ACZISC to Facilitate and Promote the Application of Available On-Line Information to Coastalshed Management. *M.J.A. Butler, P.R. Boudreau and C. LeBlanc.*
- 10:30 - 10:50 **D3.** WWF-Canada's information products in the Scotian Shelf and Gulf of Maine. *Graham Bondt and Jennifer Smith.*
- 10:50 - 11:10 *Nutrition break*
- 11:10 - 11:30 **D4.** Enhancing the Use and Influence of Bay of Fundy Information - Insights from Recent Studies of the BoFEP Fundy Informatics Working Group. *Peter G. Wells, B.H. Macdonald, E.G. Toms, J.A. Percy, R.E. Cordes, G.R.G. Hutton, and S.J. Rolston.*
- 11:30 - 11:50 **D5.** Use of a GIS for Decision Support in Coastal Zone Management in the Southwestern New Brunswick Portion of the Bay of Fundy. *B.D. Chang and F.H. Page.*
- 11:50 - 12:10 **D6.** Nova Scotia's Sustainable Coastal Development Strategy: what, when, how, and what's next? *Jennifer. A Graham.*
- 12:10 - 12:30 **D7.** Coastal CURA – Community Involvement in Coastal Management. *Melissa Landry on behalf of the Coastal CURA team.*
- 12:30 - 14:00 *Lunch (on your own)*
- 14:00 - 14:20 **D8.** Calling for Integrated Management of Saint John Harbour. *Melanie Wiber and Maria Recchia on behalf of the Coastal CURA team.*
- 14:20 - 14:40 **D9.** Reviewing Climate Change Impacts on Coastal Habitats, Marine Invasive Species, and Water Quality in the Gulf of Maine. *Susan Horton and Kyle McKenzie*
- 14:40 - 15:00 **D10.** Consultation as a Preventative Measure in the Atlantic Canadian Fisheries. *Courtenay E. Parlee*
- 15:00 - 15:20 **D11.** Discussion.

BoFEP Workshop Program Overview

Tuesday May 26									
0900 - 1700	Citizen's Forum								
1630 - 1930	Registration			Poster & display set up					
1930 - 2130	Opening Reception								
Wednesday May 27									
0800 - 0845	Registration			Poster & display set up					
0845 - 0910	Welcome & Introduction								
0910 - 1000	Plenary Presentation 1	Nutrition break							
1000 - 1020									
1020 - 1040			A1						
1040 - 1100			A2						
1100 - 1120			A3						
1120 - 1140			A4						
1140 - 1200			A5						
1200 - 1220		A6							
1220 - 1400	Lunch (on your own)								
1400 - 1420	Session A (continued) Tidal Power	A7		Session B Salt Marsh Research & Restoration	B1				
1420 - 1440		A8			B2				
1440 - 1500		A9			B3				
1500 - 1520		A10			B4				
1520 - 1540		A11			B5				
1540 - 1600		A12			B6				
1600 - 1620	Nutrition break								
1620 - 1800	BoFEP Meeting - "Into the Future"								
1800 - 1930	Supper (on your own)								
1930 - 2200	Public Forum on Tidal Energy & Social Hour								
Thursday May 28									
0845 - 0935	Plenary Presentation 2								
0950 - 1010	Session C Indicators & Decision Support Tools	C1		Session D Coastal Zone Information Management	D1		Session E Intertidal Ecology	E1	
1010 - 1030		C2			D2			E2	
1030 - 1050		C3			D3			E3	
1050 - 1110	Nutrition break								
1110 - 1130	Session C (continued) Indicators & Decision Support Tools	C4		Session D (continued) Coastal Zone Information Management	D4		Session E (continued) Intertidal Ecology	E4	
1130 - 1150		C5			D5			E5	
1150 - 1210		C6			D6			E6	
1210 - 1230		C7			D7			E7	
1230 - 1400	Lunch (on your own)								
1400 - 1420	Session F Fisheries & Aquaculture	F1		Session D (continued) Coastal Zone Information Management	D8		Session E (continued) Intertidal Ecology	E8	
1420 - 1440		F2			D9			E9	
1440 - 1500		F3			D10			E10	
1500 - 1520		F4			D11			E11	
1530 - 1730	Campus tours			Geomatics mini workshop					
1830 - 2030	Banquet (Awards & Guest Speaker)								
2030 - 2230	Dance and Music								
Friday May 29									
0845 - 0935	Plenary Presentation 3								
0950 - 1010	Session F (continued) Fisheries & Aquaculture	F5		Session G Watersheds	G1		Session H Other Industrial Activities	H1	
1010 - 1030		F6			G2			H2	
1030 - 1050		F7			G3			H3	
1050 - 1110	Nutrition break								
1110 - 1130	Session F (continued) Fisheries & Aquaculture	F8		Session G (continued) Watersheds	G4		Session I Conservation Ecology	I1	
1130 - 1150		F9			G5			I2	
1150 - 1210		F10			G6			I3	
1210 - 1300	Plenary Synthesis & Closing								