



**Canadian Society of Environmental Biologists
48th Annual Meeting & Workshop**

**Environmental Monitoring -
The Basis for Better Decisions**

October 15, 16 and 17, 2009

**Days Inn & Suites West Edmonton
10010 – 179A Street NW, Edmonton, Alberta**

Workshop Program

Wednesday, October 14, 2009

5:30 – 7:00 PM Poster Session Setup
5:30 – 7:00 PM Registration
7:00 – 9:00 PM CSEB Board of Directors Meeting

Thursday, October 15, 2009

Opening of the Conference – Room: Ballroom

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| 8:00 – 8:30 | <i>Registration</i> |
| 8:30 – 8:45 | Welcome from the National Society Brian Free, National President, CSEB |
| 8:45 – 9:00 | Welcome To Alberta Hon. Rob Renner, Alberta Minister of Environment |

| Plenary Session: Environmental Monitoring – Setting the Scene <i>Session Chair – Brian Free, CSEB President</i> | |
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| 9:00 – 9:50 | The Boreal Biome: A Climate Change Time Bomb? Dr. David Schindler, University of Alberta |
| 9:50 – 10:20 | Coffee and Networking Break |
| 10:20 – 11:10 | The Real Principles of EIA Monitoring Programs Dr. Bill Ross, Independent Environmental Monitoring Agency |
| 11:10 – 12:00 | Effective Environmental Monitoring – More Honoured in the Breach Than the Observance Dr. Peter Chapman, Principal/Sr. Environmental Scientist, Golder Associates Ltd. |

Lunch: 12:00 – 1:30 PM

Thursday, October 15, 2009 (continued)

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| | Government Approaches to Environmental Monitoring Room: Ballroom <i>Session Chair: Anne Wilson</i> | |
| 1:30 – 1:55 | The Evolution of the Environmental Effects Monitoring Programs Bonna Ring, National Environmental Effects Monitoring Office | |
| 1:55 – 2:20 | Integrated Monitoring, Evaluation & Reporting Framework Albert Poulette, Director, Integrated Monitoring, Evaluation & Reporting, Alberta Environment | |
| 2:20 – 2:45 | Water quality and aquatic ecosystem monitoring cases in Alberta and their influence on environmental management and policy Leigh Noton, Alberta Environment | |
| 2:45 – 3:15 | <i>Coffee and Networking Break</i> | |
| | Concurrent Sessions Case Studies..... | |
| | Room: Linden Oak Room <i>Session Chair: Gary Ash</i> | Room: Tamarack Room <i>Session Chair: Joseph Hnatiuk</i> |
| 3:15 – 3:40 | Aquatic Effects Monitoring - Diavik Diamond Mine Gord MacDonald, Principal Advisor Sustainable Development and Seth Bohnet, Senior Environmental Coordinator, Diavik Diamond Mine Inc. | Development of an Environmental Monitoring Program for Fish Community, Population and Individuals Exposed to Multiple Municipal Wastewater Discharges, Canada G. Tetreault ^{1,2} , C. Brown ¹ , M. McMaster ² , J. Bennett ² , B. Knight ² , Kallie Shires ² , and M. Servos ^{1,3} : ¹ University of Waterloo, Waterloo, ON, ² Environment Canada, Burlington, ON, ³ Canadian Water Network, Waterloo, ON. |
| 3:40 – 4:05 | Analysis of Water Quality Variability in Two Lakes near the EKATI Diamond Mine Mark Wen, Rescan Environmental, Simon Bonner, Simon Fraser University, and Carl Schwarz, Simon Fraser University | A Fish-Based Index Of Biological Integrity For Assessing River Condition In Central Alberta Cameron E. Stevens, Golder Associates Ltd.; Trevor Council, and Michael G. Sullivan, Alberta Sustainable Resource Management |
| 4:05 – 4:30 | Monitoring and Remediation of Fish Passage at an Undersized Road Culvert at Hill Creek, NWT Scott MacNeill and Nathan Schmidt, Golder Associates, Edmonton. | Assessing the Effectiveness of a Constructed Arctic Stream Using Multiple Ecological Attributes N.E. Jones ¹ , G.J. Scrimgeour ² , and W.M. Tonn ³ (Presenter) ¹ Ontario Ministry of Natural Resources, ² Parks Canada, ³ University of Alberta |
| 4:45 - 5:30PM | CSEB Annual General Meeting | |
| 6:30 – 8:30 PM | CSEB Banquet (Ballroom) Guest Speaker: Dr. Lu Carbyn, Emeritus Research Scientist, Canadian Wildlife Service | |

(Oct 8, 2009 version)

Friday, October 16, 2009

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| 8:30 – 9:00 | <i>Pastries, Coffee, Networking and Poster Session Viewing</i> | |
| | Focusing in on Species Groups Room: Linden Oak Room <i>Session Chair – Corey De La Mare</i> | Ecosystem Monitoring Room: Tamarack Room <i>Session Chair: Pat Stewart</i> |
| 9:00 – 9:25 | Wolverine (<i>Gulo gulo</i>) Activity and Waste Management at a Diamond Mine in the Northwest Territories John Virgl, Cameron Stevens*, Scott Wytrychowski, and Colleen English | Assessing Terrestrial and Aquatic Ecological Health: the Alberta Biodiversity Monitoring Program Jim Schiek, Alberta Biodiversity Monitoring Institute, Alberta Research Council |
| 9:25 – 9:50 | Caribou Monitoring at Arctic Diamond Mines Damien Panayi, Golder Associates Ltd., Yellowknife | Boundary Bay Assessment and Monitoring Program (BBAMP): A Partnership Approach Jim Armstrong, Utility Analysis & Environmental Management Division, Metro Vancouver |
| 9:50 – 10:15 | Monitoring the Effects of the Diavik Mine: Using Scientific and Traditional Knowledge for Better Decisions and the Role of the Environmental Monitoring Advisory Board John McCullum, Environmental Monitoring Advisory Board, Yellowknife | CABIN-IPY: Building Capacity for Water Quality Monitoring in Canada's North Rob Phillips, National Water Quality Monitoring and Surveillance; Environment Canada, Ottawa |
| 10:15-10:45 | <i>Coffee, Networking Break and Poster Session Viewing</i> | |
| 10:45 – 11:10 | Monitoring the Western Grebe in Alberta: Occurrence or Abundance as the parameter of interest? M.E. Erickson., M.S. Boyce, and C. Found, University of Alberta | Ekati Incineration Effects On Sediments Anne Wilson, Environment Canada |
| 11:10 – 11:40 | Woody Trees and Shrubs as Long-Term Monitoring Systems for Air and Soil Pollution Dr. Bill Paton, University of Brandon | Utilizing multiple sources of knowledge to detect and understand northern environmental change: Large scale ecological impacts of a storm surge in the outer Mackenzie Delta, N.W.T Dr. Steve Kokelj, INAC, et al. |
| 11:40 – 12:00 | Merging Aboriginal Traditional Knowledge and Western Science to assess diversity in ciscoes (<i>Coregonus spp.</i>) Dr. Andrew Muir, Paul Vecsei, Hilary Machtans, Golder Associates, Yellowknife; Kristin Floress, Univ. of Wisconsin; Todd Slack, and Jennifer Drygeese, Yellowknives Dene First Nation. | Using Lichens As Bioindicators of Air Pollution Deposition Near Remote Mining Operations Shanti Berryman and Justin Straker, Stantec, Sidney BC |

Lunch: 12:00 – 1:30 PM

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Friday, October 16, 2009 (continued)

| Afternoon Single Session and Wrap-up Room: Ballroom <i>Session Chair: Bill Paton</i> | |
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| 1:30 – 2:00 | Scientific design of an Integrated Environmental Monitoring Program for the Boundary Bay Watershed Jim Armstrong, Utility Analysis & Environmental Management Division, Metro Vancouver |
| 2:00 – 2:30 | Cumulative Effects Monitoring Programs Dr. Bill Ross, University of Calgary |
| 2:30 – 3:00 | <i>Coffee, Networking Break and Poster Session Viewing</i> |
| 3:00 – 3:45 | Workshop Wrap-up Dr. Peter Chapman, Golder Associates Ltd., Burnaby BC |
| 3:45 – 4:00 | Closing Remarks Anne Wilson & Gary Ash, Co-Chairs |

Saturday, October 17 – Field Trip (Optional at Extra Cost)

9:00 AM – 3:30 PM – Clifford E. Lee Nature Sanctuary and/or Wagner Bog, West of Edmonton

Posters Session

Title: “From Biodiversity Monitoring to Biodiversity Science in Boreal Alberta”
Authors: S.J. Mayor, S. Boutin, E.M. Bayne, F. He, University of Alberta, Edmonton.

Title: “The Importance of Reference Site Selection In Environmental Effects Monitoring Studies”
Authors: Eva Kuczynski, Paula Siwik, and Shelly Boss, Environment Canada

Sponsors



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