

Agenda (subject to changes and substitutions)

April 21, 2010			
6 - 9 pm	WaterTech 2010 Opening Reception Van Horne Ballroom Registration open until 8 pm Featuring live music by Dale Ladouceur and Barrie Nighswander. Duck Pond for Charity — 50% of the proceeds will be donated to Hydrogeologists without Borders and 50% will go the winner. A number of other great prizes available.		Sponsored by  Stantec
April 22, 2010			
7 - 8:15 am	Registration / Networking Breakfast Van Horne Ballroom A, B, C, Upper Level		
8:15 - 8:45	Opening Remarks and Welcome Van Horne Ballroom A Emcee: Mr. Fred Keating Welcome: Mr. Craig Robertson, Genivar, ESAA President		
8:45 - 9	Networking Break Exhibit Area- Van Horne Ballroom C		
	Groundwater Beatty	Hot Topics Coleman	Wastewater Shaughnessy
9 - 9:30	Geophysical Exploration for Water Resources in Buried Valleys in Western Canada (Abstract 15) Paul Bauman WorleyParsons	Groundwater and Underground Coal Gasification in Alberta (Abstract 18) Alex Haluszka Matrix Solutions Inc.	Energy Production from Waste Using the Anaerobic Membrane Bioreactor Process (Abstract 12) Scott Christian ADI Systems Inc.
	5 Minute Transition		
9:35 - 10:05	Wetlands- Development of a Functional Matrix (Abstract 41) Andrea Borkenhagen WorleyParsons	Regional Groundwater Quality Study and Monitoring Network Development: Athabasca Oil Sands (AOS) Region (Abstract 33) Randa Sultan, WorleyParsons	Human Health Risk Assessment - An Emerging Issue in Municipal Wastewater (Abstract 21) Karen Phillipps, Intrinsik Environmental Sciences Inc.
	5 Minute Transition		
10:10 - 10:40	Different Approaches in Assessing Background Groundwater Quality (Abstract 9) Ken Lyon WorleyParsons	Surface Water Quality Studies and Effects Assessment in Mining: Methods and Applications (Abstract 33) Sergei G. Touchinski AMEC Earth & Environmental	Compact Wastewater Treatment System for Domestic and Commercial Operations System Design and Field Experience (Abstract 6) Jan Korzeniowski J.K. Engineering Ltd.
10:40 - 11	Networking Break Exhibit Area- Van Horne Ballroom C		
	Groundwater (continued) Beatty	Hot Topics (continued) Coleman	Wastewater (continued) Shaughnessy
11:00 - 11:30	Multi Disciplinary Approach to Assess and Manage Risk of Chloride Rich Groundwater Discharging to Elkwater (Abstract 28) A.Aziz Shaikh EBA Engineering Consultants Ltd.	Key Facets of Regional Groundwater Resources and their Relation to Possible Cumulative Effects, Ft Mc Murray, Alberta (Abstract 25) Geetha Ramesh, WorleyParsons	Cytotoxic Drugs in Drinking Water: A Prediction and Risk Assessment Exercise for the Thames Catchment in the UK (Abstract 7) Nicole Rowney, Fossil Water
	5 Minute Transition		

11:35 - 12:05 pm	Groundwater Quality Results - Is it Natural or Not? (Abstract 20) Frans Hettinga EBA Engineering Consultants Ltd.	Geological Storage of CO ₂ by Hubbert's Force Potential and Gravitational Groundwater Flow Systems (Abstract 14) K. Udo Weyer WDA Consultants Inc.	Feasibility of Using Reverse Osmosis to Remove Heavy Metals and Coliforms from Water (Abstract 13) Roger Saint-Fort Infinity Water Solutions Inc.
12:05 - 2:15	Keynote Luncheon Van Horne Ballroom A Hydrogeologists without Borders - An Update Catherine Main, Alberta Innovates Technology Futures Water Management and the Lake Mead Third Straw Project Patricia Mulroy, General Manager, Southern Nevada Water Authority		
2:15 - 2:30	Networking Break Exhibit Area- Van Horne Ballroom C		
2:15 - 4:45	Regulatory Update - General Session Beatty, Coleman, Shaunessy Moderator: Ross Nairne, Alberta Environment Groundwater Policy Update (Abstract 19) Ross Nairne, Alberta Environment (The) Use of Groundwater Vulnerability Mapping for Regional Risk-Screening of Confined Feeding Operations in Alberta (Abstract 37) Walter Ceroici, Natural Resources Conservation Board Groundwater and Surface Water Regulation and Management in Western Canada's Emerging Shale Gas Regions (Abstract 17) Jamie Wills, Waterline Resources Inc. Water Quality and Quantity in the Oil Sands: The Goals, Regulatory Response and the Conundrum of Remaining Flexible (Abstract 40) Preston McEachern, Alberta Environment Alberta's Evolving Non-Saline and Saline Water Use Regulatory Requirements for Oil Sands Projects (Update 1) Jamie Wills, Waterline Resources Inc.		

April 23, 2010			
7:30 - 8:15 am	Networking Breakfast Exhibit Area- Van Horne Ballroom C		
	EWMCE Beatty	NSERC Coleman	Miscellaneous Shaughnessy
8:15 - 8:45	Demonstration and Verification of Leading-Edge Wastewater Treatment Technologies (Abstract 8) Jerry Leonard Edmonton Waste Management	Issues and Challenges of Sustaining Clean and Healthy Water Under Changing Climate and Landuse Scenarios (Abstract 24) Asit Mazumder University of Victoria	Water Management Strategy during the Solidification/ Stabilization of Contaminated Sediments at the Sydney Tar Ponds Remediation Project (Abstract 39) Stephen Pinto, AECOM
5 Minute Transition			
8:50 - 9:20	(The) Effect of Naphthenic Acids and Oil Sands Process Water on the Immune Gene Expression of Mice (Abstract 11) Erick García García University of Alberta	Longnose Dace Responses to Contaminants Identify Emerging Challenges in Southern Alberta Rivers; Advancing Canadian Wastewater Assets Provides an Innovative Collaboration and Exciting Research Opportunities (Abstract 27) Leland Jackson University of Calgary	Combined Ex Situ and In Situ Remediation of Soil and Groundwater Impacts to Meet Site Closure Requirements (Abstract 5) Robert W. Tossell Pinchin Environmental

April 23, 2010 (continued)

9:25 - 9:55	Carbon Nanotubes as a Novel Filter Media (Abstract 4) Seoktae Kang University of Alberta	Live Liquid Micro-Organisms (LLMO) for Pond Restoration (Abstract 26) Phyllis Day Chief Advanced Water Technologies (AWT)	Tidal Implications for Contaminant Delineation in a Foreshore Environment (Abstract 36) Erin Robson SLR Consulting (Canada) Ltd .
5 Minute Transition			
10:00 - 10:30	Applications of Advanced Oxidation Processes in Water and Wastewater Treatment (Abstract 2) Pamela Chelme-Ayala University of Alberta	Water Innovation Initiative (Abstract 38) Frank Nolan, Natural Sciences and Engineering Research Council and Twyla Legault, National Research Council - Industrial Research Assistance Program (NRC-IRAP)	Innovating for a Greener World with Mineral-Based Anti-Microbials (Abstract 23) Frank R. Varseveld EnvirEau Technologies Inc.
10:30 - 10:50	Networking Break Exhibit Area- Van Horne Ballroom C		
	Produced Water Beatty	Modelling Coleman	Miscellaneous (continued) Shaughnessy
10:50 - 11:20	Global Lessons on Water Reuse for Industrial Applications in Alberta (Abstract 16) Stephen Stanley EPCOR	Numerical Modeling of a Permeable Reactive Barrier for a PCE WQARF Site in Arizona (Abstract 29) Morley Weitzman Thurber Engineering	Surfactant Enhanced High Vacuum Dual Phase Extraction (HVDPE) Remediation of Petroleum Contaminated Bedrock Aquifer (In-situ Case Study) (Abstract 35) George (Bud) Ivey Ivey International
5 Minute Transition			
11:25 - 12:05	Beneficial Reuse of Treated Produced Water (Abstract 3) Scott Hillier Conoco Phillips	Incorporating Geologic Models into Groundwater Flow Models for Basal McMurray Aquifer Depressurization (Abstract 22) Roudrajit Maji, Golder Associates Ltd.	Pulp Mill Landfill Leachate Treatment — Chemistry and Regulatory Challenges (Abstract 32) Francisco Perello Keystone Environmental
5 Minute Transition			
12:10 - 12:40	Process Water Reuse made Possible Through Electro Pure Technology (EPT) (Abstract 31) Sean Frisky Ground Effects Environmental Services Inc. (GEE)	Okanagan Basin Water Supply and Demand Study: Hydrology Investigations and Modelling for Water Resource Planning (Abstract 30) Hugh Hamilton Summit Environmental Consultants Ltd.	Economic Treatment of Frac Flow-Back Water to Recyclable Condition Using Physical Chemical Processes (Abstract 10) David Manz Oasis Filter International Ltd.
12:40 - 2:30	Keynote Luncheon, Door Prizes and Closing Remarks Van Horne Ballroom A Crucial Waters—State of the Oceans Brian Skerry, National Geographic Photographer		
	Sponsored by EBA ENGINEERING CONSULTANTS LTD. 		