

The 2014 International Conference on Marine and Freshwater Environments (iMFE)

NRPOP Lab, Faculty of Engineering and Applied Science
 Memorial University of Newfoundland
 St. John's, NL, Canada, A1B 3X5
 Email: nrpop@mun.ca Tel: 1(709)864-8920 Fax: 1(709)864-4042



Joint Conferences:

The 2014 Annual Conference of the International Society for Environmental Information Sciences (ISEIS)
 The 2014 Atlantic Symposium of the Canadian Association on Water Quality (CAWQ)
 The 2014 Annual General Meeting and 30th Anniversary Celebration of the Canadian Society for Civil Engineering Newfoundland and Labrador Section (CSCE-NL)
 The 2nd International Conference of Coastal Biotechnology (ICCB)

CONFERENCE PROGRAM

Sheraton Hotel, St. John's, NL, Canada

SESSION SUMMARY

August 6, 2014 (Wednesday)		REGISTRATION & INFORMATION DESK
8:00 AM-8:00 PM	Registration and Inquiries	
2:00 PM-4:30 PM	Technical Tour	
COURT GARDEN		
6:00 PM-8:00 PM	Welcome Reception	

August 7, 2014 (Thursday)		REGISTRATION & INFORMATION DESK		
8:00 AM-8:00 PM	Registration and Inquiries			
SALON B (FORT WILLIAM BALLROOM)				
8:30 AM-9:00 AM	Opening Ceremony			
9:00 AM-9:45 AM	Keynote Speech: Dr. Donald Mavinic			
	SIGNAL	SALON C	SALON D	
10:00 AM-10:40 AM	Environmental Modeling, Risk Assessment and Decision Making (EMR) I	Water and Wastewater Treatment and Utility Management (WWT) I	Marine Resource Management and Sustainable Development (MRM) I	
PRE-FUNCTION AREA				
10:40 AM-11:10 AM	Coffee Break			
	SIGNAL	SALON C	SALON D	
11:10 AM-11:50 AM	Watersheds, Wetlands and Estuaries Management (WWE)	Water and Wastewater Treatment and Utility Management (WWT) II	Marine Resource Management and Sustainable Development (MRM) II	
SALON B (FORT WILLIAM BALLROOM)				
12:00 PM-2:00 PM	Lunch / Keynote Speech: Dr. Kenneth Lee			
	SIGNAL	SALON C	SALON D	
2:00 PM-3:00 PM	Climate Change, Energy Systems and Emission Reduction (CCE)	[Special Session] Marine Oil Spill Response (MOS) I	Ocean Observation and Pollution Mitigation (OOP) I	
PRE-FUNCTION AREA				
3:00 PM-3:30 PM	Coffee Break			
	SIGNAL	SALON C	SALON D	
3:30 PM-4:50 PM	Environmental Modeling, Risk Assessment and Decision Making (EMR) II	[Special Session] Marine Oil Spill Response (MOS) II	Environmental and Marine Biotechnology (EMB) I	



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GARRISON	
7:00 PM	CSCE-NL Annual General Meeting
PRE-FUNCTION AREA	
8:30 AM-7:00 PM	Poster Exhibition

August 8, 2014 (Friday)		REGISTRATION & INFORMATION DESK	
8:00 AM-8:00 PM	Registration and Inquiries		
SALON B (FORT WILLIAM BALLROOM)			
8:30 AM-9:15 AM	Keynote Speech: Dr. Nianzhi Jiao		
	SIGNAL	SALON C	SALON D
9:30 AM-10:30 AM	Environmental Modeling, Risk Assessment and Decision Making (EMR) III	[Special Session] Water Safety and Public Health (WSP) I	[ICCB Session] Environmental and Marine Biotechnology (EMB) II
PRE-FUNCTION AREA			
10:30 AM-11:00 AM	Coffee Break		
	SIGNAL	SALON C	SALON D
11:00AM-11:40 AM	Environmental Modeling, Risk Assessment and Decision Making (EMR) IV	[Special Session] Water Safety and Public Health (WSP) II	[ICCB Session] Marine Resource Management and Sustainable Development (MRM) III
SALON B (FORT WILLIAM BALLROOM)			
12:00 PM-2:00 PM	Lunch / Keynote Speech: Mr. Haseen Khan		
	SIGNAL	SALON C	SALON D
2:00 PM-3:00 PM	Environmental Modeling, Risk Assessment and Decision Making (EMR) V	Environmental and Infrastructure Sustainability (EIS)	Ocean Observation and Pollution Mitigation (OOP) II
PRE-FUNCTION AREA			
3:00 PM-3:30 PM	Coffee Break		
	SALON C		SALON D
3:30 PM-5:30 PM	Water and Wastewater Treatment and Utility Management (WWT) III		Oil Contamination and Remediation (OCR)
SALON B (FORT WILLIAM BALLROOM)			
6:30 PM	Award Banquet and CSCE-NL 30 th Anniversary Celebration		
PRE-FUNCTION AREA			
8:30 AM-4:00 PM	Poster Exhibition		



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SESSION DETAILS

August 6, 2014 (Wednesday)

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8:00 AM–8:00 PM	Registration and Inquiries
2:00 PM–4:30 PM	Technical Tour
COURT GARDEN	
6:00 PM–8:00 PM	Welcome Reception

August 7, 2014 (Thursday)

REGISTRATION & INFORMATION DESK

8:00 AM–8:00 PM	Registration and Inquiries
SALON B (FORT WILLIAM BALLROOM)	
8:30 AM–9:00 AM	Opening Ceremony
9:00 AM–9:45 AM	Keynote Speech: A Green and Sustainable Solution to Global Phosphorus Depletion Dr. Donald Mavinic Manning Foundation Laureate and Killam Scholar Professor and Associate Head of Department of Civil Engineering, University of British Columbia, Vancouver, British Columbia, Canada

SIGNAL

10:00 AM–10:40 AM	Environmental Modeling, Risk Assessment and Decision Making (EMR) I
Parametric Functional Analysis of Variance for Fish Biodiversity Battista, T.D., Fortuna, F. and Maturo, F. Department of Quantitative-Economic and Philosophical-Educational Science, University of Chieti-Pescara, Italy	
Numerical Simulations of Oil Spill Trajectories in the Danjiangkou Reservoir in China Chen, L.B., Yang, Z.F., Liu, H.F. and Li, C.H. State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, China	

SALON C

10:00 AM–10:40 AM	Water and Wastewater Treatment and Utility Management (WWT) I
Sludge Blanket Anaerobic Membrane Bioreactor (SB-AnMBR) Treatment of Prehydrolysis Liquor from the Dissolving Pulp Industry Kale, M.M. and Singh, K.S. Department of Civil Engineering, University of New Brunswick, Canada	



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Water Purification Investigation in the Lagoon

Kim, H.D. and Kim, K.H.
University of California Los Angeles, USA

SALON D

10:00 AM–10:40 AM Marine Resource Management and Sustainable Development (MRM) I

Evaluation of the Socio-economic Impact of Marine Debris in Coastal Nigeria

Daniels, C.O., Glegg, G. and Rodwell, L.
Centre for Marine and Coastal Policy Research, School of Marine Science and Engineering, Plymouth University, UK

An Integrated System Planning and Process Control System for Marine Wastewater Management

Jing, L., Chen, B., Zhang, B.Y. and Li, P.
Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

PRE-FUNCTION AREA

10:40 AM–11:10 AM Coffee Break

SIGNAL

11:10 AM–11:50 AM Watersheds, Wetlands and Estuaries Management (WWE)

Influence of Soil Drought Stress on C, N and P Stoichiometry of *Tamarix Chinensis Lour.* in Yellow River Delta, China

Rong, Q.Q., Liu, J.T., Cai, Y.P., Lu, Z.H., Zhao, Z.Z., Yue, W.C. and Xia, J.B.
State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, China

Predicting Dissolved Oxygen Concentration in Urban Watersheds: A Comparison of Fuzzy Number Based and Bayesian Data-Driven Approaches

Khan, U.T. and Valeo, C.
Mechanical Engineering, University of Victoria, Canada

SALON C

11:10 AM–11:50 AM Water and Wastewater Treatment and Utility Management (WWT) II

Membrane Fouling Remediation in Ultrafiltration of Latex Contaminated Water and Wastewater

Abdelrasoul, A., Doan, H. and Lohi, A.
Department of Chemical Engineering, Ryerson University, Canada

Degradation of 16 PAHs in Oily Marine Wastewater by Ultrasonic Irradiation

Ma, Y.C., Chen, B., Zhang, B.Y. and Liu, B.
Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

SALON D

11:10 AM–11:50 AM Marine Resource Management and Sustainable Development (MRM) II



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Offsetting the Destruction of Marine Fish Habitat during Coastal Development Projects in Canada

Christensen, L. and Wroblewski, J.
Department of Ocean Sciences, Memorial University of Newfoundland, Canada

Use of CFD Study in Ocean Engineering

Zhan, D.X., Thanyamanta, W. and Molyneux, D.
Oceanic Consulting Corporation, Canada

SALON B (FORT WILLIAM BALLROOM)

12:00 PM–2:00 PM	Lunch Mayor's Speech: Honorable Dennis O'Keefe Keynote Speech: Impact Science: Multi-disciplinary Ocean and Atmospheric Scientific Research to Optimize Exploitation and Protection of Our Ocean Resources Dr. Kenneth Lee Director Oceans & Atmosphere Flagship Commonwealth Scientific and Industrial Research Organization, Kensington, WA, Australia
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SIGNAL

2:00 PM–3:00 PM	Climate Change, Energy Systems and Emission Reduction (CCE) Statistical Downscaling of Rainfall using Large-Scale Predictors: Dynamic Model Outputs vs. Reanalysis Data Lu, Y. Mandapaka, P.V., Kuo, C.C., Gan, T.Y. and Qin, X.S. School of Civil & Environmental Engineering, Nanyang Technological University, Singapore Possible Impacts of Climate Changes on Freshwater in Coastal Aquifers Sherif, M., Sefelnasr, A., Ebraheem, A.A. and Javadi, A. Department of Civil and Environmental Engineering, College of Engineering, UAE University, United Arab Emirates
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SALON C

2:00 PM–3:00 PM	[Special Session] Marine Oil Spill Response (MOS) I Modelling the Effects of Chemical Dispersant on the Fate of Spilled Oil: Case Study of a Hypothetical Spill Near Saint John, NB Niu, H.B., Yang, R.J., Wu, Y.S. and Lee, K. Department of Engineering, Faculty of Agriculture, Dalhousie University, Canada Biosurfactant Produced by a <i>Rhodococcus erythropolis</i> Mutant as an Oil Spill Response Agent Cai, Q.H., Zhang, B.Y., Chen, B. and Cao, T. Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada The Modelling of Ecological Effects of Dispersed Oil on Typical Marine Species in Offshore Newfoundland Song, X., Chen, B., Zhang, B.Y. and Li, P. Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada
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SALON D



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2:00 PM–3:00 PM	Ocean Observation and Pollution Mitigation (OOP) I
Mapping of Chlorophyll-A in the Dubai Creek Area Using WorldView-2 Imagery and Field Data Bachir, A.R., Ali, T.A. and Mortula, M. Department of Civil Engineering, American University of Sharjah, United Arab Emirates	
Molecular Imprinting for Early Detection of Oil Spills in Seawater Egli, S.N. and Bottaro, C.S. Department of Chemistry, Memorial University of Newfoundland, Canada	
A GIS-based Spatiotemporal Study of the Variability of Water Quality Parameters in the Dubai Creek Ali, T.A., Mortula, M., Atabay, S. and Navdeh, E. Department of Civil Engineering, American University of Sharjah, United Arab Emirates	

PRE-FUNCTION AREA

3:00 PM–3:30 PM	Coffee Break
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SIGNAL

3:30 PM–4:50 PM	Environmental Modeling, Risk Assessment and Decision Making (EMR) II
Evaluation of the Causal Relationship between Variables Using a Probabilistic Approach for Water Quality Management He, J.X. Department of Civil Engineering, Schulich School of Engineering, University of Calgary, Canada	
Development Tendency Analysis and Evaluation of Nonpoint Source Pollution in the Upper Reach of the Yangtze River and Its Control Measures Ding, X.W., Shen, Z.Y., Liu, R.M., Chen, L. and Lin, M. Key Laboratory of Regional Energy and Environmental Systems Optimization, Ministry of Education, Research Center for Beijing Energy Development, North China Electric Power University, China	
Peak Flow Prediction Using Fuzzy Linear Regression: Case Study of the Bow River Khan, U.T. and Valeo C. Department of Mechanical Engineering, University of Victoria, Canada	
Optimal PM_{2.5} Emission Reduction Strategies for an Industrial Park Based on China's 12th Five-Year Plan on Air Pollution Prevention and Control Yue, W.C., Cai, Y.P. and Rong, Q.Q. State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, China	

SALON C

3:30 PM–4:50 PM	[Special Session] Marine Oil Spill Response (MOS) II
Fate of Corexit Dispersants in the Gulf of Mexico after the Deepwater Horizon Oil Spill and the Corresponding Risk Analysis Cai, Q.H., Zhang, B.Y., Chen, B. and Li, P. Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada	



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Interpolation Method and Uncertainty Analysis in Oil Spilling Trajectory Model

Zheng, X., Chen, B. and Wu, H.J.

Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

Photocatalysis of Naphthalene in Offshore Produced Water: Comparison between Suspended TiO₂ and Immobilized TiO₂

Liu, B., Chen, B., Lee, K. and Ma, Y.C.

Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

Identification of Typical Biomarkers in Dispersed Oil in Baffled Flask Test

Song, X., Zhang, B.Y., Chen, B. and Cai, Q.H.

Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

SALON D

3:30 PM–4:50 PM

Environmental and Marine Biotechnology (EMB) I

A Study on Pollution in Livestock and Poultry Breeding in Shiyuan City, China

Jia, J.X., Li, C.H., Jia, X.L. and Xu, M.

Key Laboratory for Water and Sediment Sciences of Ministry of Education, School of Environment, Beijing Normal University, China

Effect of Cultural and Environmental Conditions on Biosurfactant Production by *Rhodococcus erythropolis* Using n-Hexadecane

Cao, T, Zhang, B.Y., Chen, B. and Cai, Q.H.

Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

Research on Passive Contaminant Transport in a Vegetated Channel

Jahra, F. and Kawahara, Y.

Oceanic Consulting Corporation, Canada

Algae Involved Generation of Compost

Wang, Y.J., Zhang, B.Y. and Husain, T.

Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

GARRISON

7:00 PM

CSCE-NL Annual General Meeting



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August 8, 2014 (Friday)

REGISTRATION & INFORMATION DESK

8:00 AM–8:00 PM Registration and Inquiries

SALON B (FORT WILLIAM BALLROOM)

8:30 AM–9:15 AM **Keynote Speech:**
Why Productive Estuaries are Sources Rather Than Sinks of CO₂?
 Dr. Nianzhi Jiao
 Fellow, Chinese Academy of Sciences
 Cheung Kong Professor and Director for Institute of Microbes and Ecospheres,
 State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, China

SIGNAL

9:30 AM–10:30 AM Environmental Modeling, Risk Assessment and Decision Making (EMR) III

Amending the Environmental Emergency Regulations

Chisholm, G.R. and Dowdall, E.

Environmental Emergencies Program, Environmental Protection Operations Directorate-Atlantic Environment Canada, Canada

Uncertainty Analysis for Propagation Effects from Statistical Downscaling to Hydrological Modeling

Wu, H.J. and Chen, B.

Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

Long-Term Dependence of Annual Peak Flows of Canadian Rivers: Two Decades Later

Lye, L.M. and Sulistiyono, H.

Department of Civil Engineering, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

SALON C

9:30 AM–10:30 AM [Special Session] Water Safety and Public Health (WSP) I

Water Insecurity in Indigenous Canada: A Case Study of Illness, Neglect, and Urgency

Hanrahan, M., Sarkar, A. and Hudson, A.

Environmental Policy Institute, Grenfell Campus, Memorial University, Canada

Potential Health Risks of Contaminants in Private Groundwater Sources in Newfoundland and Labrador

Thomson, K.K., Sarkar, A. and Cooper, T.J.

Division of Community Health and Humanities, Faculty of Medicine, Memorial University, Canada

Trace Element Analysis of Water with Inductively Coupled Plasma-Mass Spectrometry

Men, L.Q., Zhang, D.Y. and Chen, Q.Y.

Department of Physics and Physical Oceanography, Memorial University of Newfoundland, Canada



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SALON D

9:30 AM–10:30 AM [ICCB Session] Environmental and Marine Biotechnology (EMB) II

Opening Ceremony for the 2nd International Conference of Coastal Biotechnology (ICCB)

Research on the Epibenthic Fisheries Development Mode of Shandong Peninsula

Zheng, Y.Y., Wang, Y. and Gao, X.

Marine Biology Institute of Shandong Province, China

Investigation of Natural Resource of *Trachidermus fasciatus* in Estuarine and Coastal Area of Yalu River

Wang, D.S., Wang, P., Wang, X., Ji, C.B. and Zhang, S.D.

School of Agriculture, East Liaoning University, China

Multitask Lipid Mediated Signals in One Gene is Only Found in Intertidal Alga *Pyropia* with Peculiar Lineage

Chen, H.M., Chen, J.J., Jin, H.X., Yang, R., Luo, Q.J. and Yan, X.J.

Key Laboratory of Applied Marine Biotechnology, Ningbo University, China

PRE-FUNCTION AREA

10:30 AM–11:00 AM Coffee Break

SIGNAL

11:00 AM–11:40 AM Environmental Modeling, Risk Assessment and Decision Making (EMR) IV

Comparison of Autoregressive Moving Average and State Space Methods for Monthly Time Series Modelling of Labrador and South-East Quebec River Flows

Sparkes, C., Lye, L.M. and Richter, S.

Department of Civil Engineering, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada

Lattice Boltzmann Method for the Advection and Diffusion Equation in Shallow Water

Liu, H.F. and Ding, Y.

School of Environmental Science, Beijing Normal University, China

SALON C

11:00 AM–11:40 AM [Special Session] Water Safety and Public Health (WSP) II

Sustainable Drinking Water Management- A Tall Order for Municipal Governments

Minnes, S. and Vodden, K.

Environmental Policy Institute, Grenfell Campus, Memorial University, Canada

Water Security and the Role of Community Organizations and Residents in Indian Bay

Vodden, K. and Holisko, S.

Environmental Policy Institute, Grenfell Campus, Memorial University, Canada

SALON D

11:00 AM–11:40 AM [ICCB Session] Marine Resource Management and Sustainable Development (MRM) III



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Coastal Biotechnology Development in China

Qin, S.

Key Laboratory of Coastal Biology and Biological Resource Utilization, Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China

Characterization of Microbial Community Structure Associated with Pollution in Xiaoqing River Sediment

Li, J.L., Zou, T., Yu, S.X. and Qin, S.

Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China

SALON B (FORT WILLIAM BALLROOM)

12:00 PM–2:00 PM	<p>Lunch / Keynote Speech: Application of Emerging Technologies in Water Resources Management Mr. Haseen Khan Director Water Resources Management Division NL Department of Environment and Conservation</p>
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SIGNAL

2:00 PM–3:00 PM	<p>Environmental Modeling, Risk Assessment and Decision Making (EMR) V A Queueing Theory-Based Inexact Stochastic Optimization Approach for Municipal Solid Waste Management Liao, R.F. and Huang, G. Institute for Energy, Environment and Sustainable Communities, University of Regina, Canada</p> <p>Optimizing Water Quality Sampling Through Application of Real Time Ionic Concentration Regression Models Rahman, S. and Paterson, R. Water Resources Management Division, Department of Environment, Environment Canada, Canada</p> <p>Water Supply-Demand Management under Climate Change Xu, T.Y. and Qin, X.S. School of Civil and Environmental Engineering, Nanyang Technological University, Singapore</p>
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SALON C

2:00 PM–3:00 PM	<p>Environmental and Infrastructure Sustainability (EIS) Cuttings Transport Evaluation in Deviated Wells Abimbola, M.O., Chukwu, G.A. and Khan, F.I. Department of Oil and Gas Engineering, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada</p> <p>Role of Hydro in Support of Modern Power Grids Helwig, P.C. Helwig Hydrotechnique Ltd., Canada</p> <p>Water Resources Assessment and Management for Nuclear Power Plants in China Ding, X.W., Wang, W., Huang, G.H., Chen, Q.W. and Wei, G.L. Key Laboratory of Regional Energy and Environmental Systems Optimization, Ministry of Education, Research Center for Beijing Energy Development, North China Electric Power University, China</p>
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SALON D

2:00 PM–3:00 PM	Ocean Observation and Pollution Mitigation (OOP) II
Opto-Microfluidics for Monitoring Salinity and Temperature of Sea Water Zhang, D.Y., Men, L.Q. and Chen, Q.Y. Department of Physics and Physical Oceanography, Memorial University of Newfoundland, Canada	
Validating Molecularly Imprinted Polymers Against Current Methods Used by the Oil and Gas Industry for Analysis of Contaminants from Produced Water Burton, K.E. and Bottaro, C.S. Department of Chemistry, Memorial University of Newfoundland, Canada	
Intelligent Multiparameter Fiber-Optic Sensing for Ocean Observation Chen, Q.Y. and Men, L.Q. Department of Physics and Physical Oceanography, Memorial University of Newfoundland, Canada	

PRE-FUNCTION AREA

3:00 PM–3:30 PM	Coffee Break
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SALON C

3:30 PM–5:30 PM	Water and Wastewater Treatment and Utility Management (WWT) III
Removal of Reactive Blue-5 from Aqueous Solutions by Ultrasound Irradiated Chitosan Nanoparticles Juyal, J. and Sharma, S.K. Green Chemistry & Sustainability Research Group, Department of Chemistry, JECRC University, India	
Effect of Na⁺ and Ca²⁺ on the Bioaccumulation of Perfluoroalkyl Substances by <i>Daphnia Magna</i> in the Presence of Protein Xia, X.H., Rabearisoa, A.H., Dai, Z.N. and Zhao, P.J. School of Environment, Beijing Normal University, State Key Laboratory of Water Environment Simulation, China	
Cu, Zn and As Pollution of River Insect, Plant and Water Along the Metal Mine Tailing in Waidani Area, Okayama Prefecture, Japan Li, H., Kumano, S. and Nishida, A. Faculty of Systems Engineering, Wakayama University, Japan	
Biosorption of Silver Using Metal-Imprinted Thiourea-Modified Glutaraldehyde-Crosslinked O-Carboxymethyl Chitosan Beads Zhang, M., Zhang, Y. and Helleur, R. Department of Process Engineering, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada	
Biosorbent from Fruit Wastes for Removal of Organic Dyes in Wastewater Ho, M.Q. and Li, S.F.Y. Department of Chemistry, Faculty of Science, National University of Singapore, Singapore	
Removal of Botanical Polyphenols from Aqueous Solution by Adsorption onto Coal Fly Ash An, C.J., Huang, G., Shi, Y.R., Ding, X.W., Li, G.C. and Liao, R.F. Institute for Energy, Environment and Sustainable Communities, University of Regina, Canada	

SALON D



The 2014 International Conference on Marine and Freshwater Environments (iMFE)

NRPOP Lab, Faculty of Engineering and Applied Science
 Memorial University of Newfoundland
 St. John's, NL, Canada, A1B 3X5
 Email: nrpop@mun.ca Tel: 1(709)864-8920 Fax: 1(709)864-4042



Joint Conferences:

The 2014 Annual Conference of the International Society for Environmental Information Sciences (ISEIS)
 The 2014 Atlantic Symposium of the Canadian Association on Water Quality (CAWQ)
 The 2014 Annual General Meeting and 30th Anniversary Celebration of the Canadian Society for Civil Engineering Newfoundland and Labrador Section (CSCE-NL)
 The 2nd International Conference of Coastal Biotechnology (ICCB)

3:30 PM–4:30 PM	Oil Contamination and Remediation (OCR)
An Integrated Nano Zero-Valent Iron and Soil Washing Approach for PCB Contaminated Soil Remediation Zhang, H., Zhang, B.Y. and Liu, B. Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada	
Numerical Simulation of Subsurface Hydrocarbon Contaminants Transportation and Natural Attenuation Processes Based on Multi-dimensional Physical Models Li, Z.L., Chen, B., Li, P. and Zhu, Z.W. Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada	
An Agent-based Simulation-optimization Coupling Approach for Device Allocation and Operation Control in Response to Offshore Oil Spills under Uncertainty Li, P., Chen, B., Li, Z.L. and Jing, L. Northern Region Organic Pollution Control (NRPOP) Lab, Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada	
Air Quality Impacts due to Oil Spills Shareef, M.M. and Husain, T. Department of Civil and Environmental Engineering, King Fahd University of Petroleum and Minerals, Saudi Arabia	

SALON B (FORT WILLIAM BALLROOM)

6:30 PM–7:00 PM	Cash Bar Networking
7:00 PM–9:00 PM	Award Banquet and CSCE-NL 30th Anniversary Celebration

Poster Exhibition (August 7-8, 2014)

PRE-FUNCTION AREA

8:30 AM–7:00 PM on August 7; 8:30 AM-4:00 PM on August 8
Mass Balance Simulation for Wetlands and Estuaries Management Shin, B and Kim, K Department of Civil Engineering, Kwandong University, South Korea
Multitask Lipid Mediated Signals in One Gene is Only Found in Intertidal Alga <i>Pyropia</i> with Peculiar Lineage Chen, H.M., Chen, J.J., Jin, H.X., Yang, R., Luo, Q.J. and Yan, X.J. Key Laboratory of Applied Marine Biotechnology, Ningbo University, China
Molecularly Imprinted Polymers (MIPs) for Selective Detection of Thiophene Compounds in Water Hijazi, H.Y. and Bottaro, C.S. Department of Chemistry, Memorial University of Newfoundland, Canada
System Dynamics Modeling of Socioeconomic Development Mode Associated with Water Usage in Baiyangdian Lake, Northern China Zhu, J., Wang, X., Cui, Q. and Cui, G.N. Key Laboratory for Water and Sediment Sciences of Ministry of Education, School of Environment, Beijing Normal University, China



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Ecological simulation on Coastal Environment of Wetland Shin, B. and Kim, K. Department of Civil Engineering, Kwandong University, South Korea
Sea-Land Integrated Pollution Control Mode Applied to Beidaihe Offshore Area Zhang, Z.J., Liu, R.Z. and Zhao, Y.W. State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, China
The Impact of Land Use Change on the Temporospatial Variations of Ecosystems Services Value in China and an Optimized Land Use Solution Wang, W.J., Guo, H.C., Chuai, X.W. and Liu, Y. College of Environmental Sciences and Engineering, Peking University, China
An Improved Model for Predicting the Mass Burning Rate of a Pool Fire Jujuly, M.M., Rahman, M.A., Ahmed, S. and Khan, F.I. Faculty of Engineering and Applied Science, Memorial University of Newfoundland, Canada
Development of a Risk Rank Model for Environmental Risk Assessment of Abrupt Water Pollution Accidents Zhang, K. and Liu, R.Z. State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, China
Water Resources Security Evaluation Based on Matter Element Model in the Yellow River Basin Jia, X.L., Li, C.H., Jia, J.X. and Xu, M. Key Laboratory for Water and Sediment Sciences of Ministry of Education, School of Environment, Beijing Normal University, China
Two New Species of Onyx Cobb (<i>Nematoda desmodoridae</i>) from the Yellow Sea, China Huang, Y. College of Life Sciences, Liaocheng University, China
Characterization of a Respiratory Burst Oxidase Homologue from <i>Pyropia haitanensis</i> with unique Molecular Phylogeny and Rapid Stress Response Luo, Q.J., Yang, R., Yan, X.J. and Chen, H.M. Key Laboratory of Applied Marine Biotechnology, Ningbo University, China
Glycerol-3-Phosphate Metabolism Plays a Role in Stress Response in Red Algae <i>Pyropia haitanensis</i> Yang, R., Luo, Q.J., Chen, J.J., Chen, H.M. and Yan, X.J. Key Laboratory of Applied Marine Biotechnology, Ningbo University, China
Oil Recovery from Refinery Sludge Through Ultrasonic Assisted Extraction Hu, G.J. and Li, J.B. Environmental Engineering Program, University of Northern British Columbia, Canada

