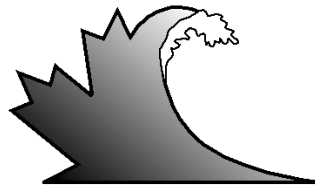


*ASSOCIATION  
CANADIENNE  
SUR LA QUALITÉ  
DE L'EAU*



*CANADIAN  
ASSOCIATION ON  
WATER QUALITY*

**20<sup>e</sup> Congrès régional de l'Est du Canada / 20<sup>th</sup> Eastern Regional Conference**

29 octobre 2004 / October 29, 2004

Tenu à / Held at

Université Carleton / Carleton University  
Ottawa, ON

**COMPTES RENDUS / PROCEEDINGS**

**INSTITUTE FOR ENVIRONMENTAL ENGINEERING  
INSTITUT DE GÉNIE DE L'ENVIRONNEMENT**



**Université d'Ottawa - University of Ottawa**

AND



**20<sup>E</sup> CONGRÈS RÉGIONAL DE L'EST DU CANADA DE L'ACQE**  
**(Association canadienne pour la qualité de l'eau)**  
**20<sup>TH</sup> EASTERN REGIONAL CONFERENCE OF THE CAWQ**  
**(Canadian Association on Water Quality)**  
 Université Carleton / Carleton University  
 Ottawa, ON

**Le 29 octobre 2004 / October 29, 2004**

**Programme scientifique / Scientific Program**

7:45 Inscription/Registration  
 8:45 Ouverture du congrès/Congress Opening  
 Southam Hall Room 403

	<b>Session A</b> Southam Hall Room 520	<b>Session B</b> Southam Hall Room 517	<b>Session C</b> Southam Hall Room 403
	<b>Innovative traitements / Innovative Treatments</b>	<b>Eaux usées / Wastewater Treatment</b>	<b>Eau potable / Water Treatment</b>
Président / Chair	J. Nicell	Y. Comeau	R. Narbaitz
9:00	Natural and synthetic hormones removal by enzymatic degradation  <i>Filali-Meknassi Y., Auriol M., Adams C. and Tyagi R.D.</i>	Toward the use of the BAP-test to predict the performance of enhanced biological phosphorus removal in municipal WWTP  <i>Bourdon C., Choubert J.-M., Comeau Y. and Héduit A.</i>	Membrane fouling reduction by the incorporation of hydrophilic surface modifying macromolecules in UF membrane manufacturing  <i>Nguyen A.-H.*, Rana D., Narbaitz R.M. and Matsuura T.</i>
9:30	Peroxidase catalyzed oxidation of bisphenol A in a reversed micellar system  <i>Li H.-M. and Nicell J.A.</i>	Proposition d'un cadre de travail pour l'intégration du développement durable dans le processus de conception de systèmes  <i>Gagnon B. et Leduc R.</i>	Evaluation of microbial water quality risks associated with the land application of biosolids; test on hydrologically isolated plots  <i>Unc A., Passmore J., Goss M., Springthorpe S., and Sattar S.</i>
10:00	Kinetic models of laccase-catalyzed oxidation of aqueous phenol  <i>Kurniawati S.* and Nicell J.A.</i>	Seawater denitrification at the Montreal Biodome  <i>Labelle M.-A., Juteau P., Villemur R., Parent S. and Comeau Y.</i>	Properties of flocs in dissolved air flotation of Winnipeg tap water  <i>Zhang G.* and Gorczyca B.</i>
10:30	Pause / Break	Pause / Break	Pause / Break

<b>Innovative traitements / Innovative Treatments</b>		<b>Eaux usées / Wastewater Treatment</b>	<b>Ressources en eau / Water Resources</b>
Président / Chair	R. Tyagi	R. Leduc	M. Robin
10:50	Enzyme production by antagonistic fungi <i>Trichoderma</i> spp.: municipal sludge as potential raw material <i>Verma M., Brar S.K., Tyagi R.D., Valéro J.R. and Surampalli R.Y.</i>	A comparative evaluation of oxygen mass transfer coefficient determined from four methods in activated sludge processes <i>Mahendraker V., Mavinic D. S. and Rabinowitz. B.</i>	Sediment and nutrient removal efficiencies in a constructed wetland in southern Quebec <i>La Flamme C.*, Enright P. and Madramootoo C.</i>
11:20	Laccase-catalyzed removal of bisphenol-A from water <i>Modaressi K., Taylor K.E., Biswas N., and Bewtra J.K.</i>	Direct detection of pathogens in municipal wastewater using oligonucleotide DNA microarray <i>Lee, D.-Y., Shannon K. and Beaudette L.</i>	Reaction-transport modeling as a tool for investigating phosphorus controls in lake sediments <i>Katsev S., L'Heureux I. and Rancourt D.G.</i>
11:50	<b>Affiches / Posters</b>	<b>Affiches / Posters</b>	<b>Affiches / Posters</b>
12:15	Lunch Minto Centre Room 2014	Lunch Minto Centre Room 2014	Lunch Minto Centre Room 2014
	<b>Mackenzie Bldg Room 3328</b>	<b>Mackenzie Bldg Room 3275</b>	<b>Mackenzie Bldg Room 3235</b>
	<b>Digestion anaerobic / Anaerobic Digestion</b>	<b>Traitement des eaux industrielles / Industrial Wastewater Treatment</b>	<b>Ressources en eau / Water Resources</b>
Président / Chair	K. Kennedy	P. Lessard	P. Van Geel
13:30	Analysis of microbial diversity in two and three stage mesophilic anaerobic digestion of municipal sewage sludge using DGGE tech. <i>Salsali H.*, Parker W.J. and Sattar S.S.</i>	Valorisation des boues noires d'aluminerie <i>Dhenain A.*, Mercier G., Blais J.-F., et Bergeron M.</i>	Modeling phosphorus dynamics in tile drained fields <i>Nohra A.* and Madramootoo C.A.</i>
14:00	The effect of microwave dose on biogas production from batch anaerobic digesters treating WAS <i>Eskicioglu C.*, Kennedy K.J. and Droste R.L.</i>	Treatment of low strength aircraft de-icing fluid in an anaerobic baffled reactor <i>Marin J.* and Kennedy K.</i>	Application of CCME procedures for deriving site specific water quality objectives for the CCME Water Quality Index <i>Khan A.A., Tobin A., Paterson R., Khan H.</i>

*and Warren R.*

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14:30	Predicting nitrogen release and liquid effluent impacts for anaerobic sludge digestion upgrades  <i>Kraemer J.T.* and Bagley D.M.</i>	Transformation et valorisation des boues rouges d'aluminerie par production d'un agent déphosphatant pour le traitement des eaux usées  <i>Poulin E.*, Mercier G. et Blais J.-F.</i>	A GIS approach for evaluating aquifer sensitivity to climate change in Eastern Ontario  <i>Robin M.J.L. and Daneshfar B.</i>
15:00	Pause / Break	Pause / Break	Pause / Break
<b>Digestion anaerobic / Anaerobic Digestion</b>		<b>Traitement et utilisation des biosolides / Sludge Treatment and Utilization</b>	<b>Ressources en eau / Water Resources</b>
Président / Chair	P. Jones	L. Fernandes	N. Ross
15:20	Modélisation de la production et de l'extraction des boues à partir d'un suivi de station d'épuration à boues activées  <i>Marquot A.*, Racault Y. and Stricker A.E.</i>	Biosolids management programs  <i>Buberoglu B. and Duguay L.</i>	Baseflow estimation for the South Nation River, Eastern ON based on direct seepage measurements and electrical conductivity  <i>Kingsley J.E.* and Robin M.J.L.</i>
15:50	Variabilité de la fraction de la matière organique biodégradable dans des réseaux séparatifs et unitaires  <i>Lagarde F., Tusseau-Vuillemin M.-H., Lessard P. et Héduit A.</i>	Effect of leachate recirculation and sludge addition in aerobic bioreactor landfills  <i>Rendra S.*, Fernandes L. and Warith M.A.</i>	UV-visible spectrophotometry for lake monitoring: application to Lake Brome, Southern Québec  <i>Sundborg M., Pouet M.-F., Lavoie A., Lambert M. and Thomas O.</i>
16:20	Steam-explosion pretreatment of municipal sludge to enhance anaerobic digestion  <i>Dereix M.*, Parker W. and Kennedy K.</i>	Post environmental assessment performance of municipal solid waste landfills: a case study of the Merrick Landfill  <i>Berhe, E.G.*, Puschak R., Warith M. and Fernandes L.</i>	Nutrients transport in surface and subsurface runoffs from two drained fields in the South of Quebec  <i>Simard G., Madramootoo C. and Enright P.</i>
16:50	Mot de la fin / Final Words Mackenzie Bldg Room 3328		
17:00	Cocktail Minto Centre Room 2014		

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## Les affiches/Posters

Methane oxidation in landfill cover soil

Albanna M.\*, Fernandes L. and Warith M.

Analytical methodologies for determination of natural and synthetic steroid sex hormones using solid-phase extraction followed by liquid chromatography-mass spectrometry

Auriol M., Filali-Meknassi Y., Adams C. and Surampalli R.Y.

Ultraviolet degradation studies of wastewater sludge based *Bacillus thuringiensis* biopesticides

Brar S.K., Verma M., Tyagi R.D. and Valéro J.R.

Traitement du phosphore d'effluents piscicoles par marais artificiels et lits de scories

Boumecied A., Chazarenc F., Brisson J., Boulanger Y. et Comeau Y.

Effect of evapotranspiration on hydrodynamics and performance of constructed wetlands

Chazarenc F., Naylor S., Brisson, J. Merlin G., and Comeau Y.

The effect of water table management on the phosphorus concentration of agricultural drainage water

Hebraud C. and Madramootoo C.

Simulation of membrane distillation processes: direct contact (MD)

Imdakm A.O. and Matsuura T.

Investigating the uncertainties in heterogeneity using CFD for flow and transport in vadose zone

Kiani N.J., Patel M.K. and Lai C.-H.

Pyrolysis of sewage sludges for the production of bio-oil and adsorbent

Kim Y.\* and Parker W.J.

Scale and resolution choices in watershed modeling

Parker G.\*

Using quantitative methods to gather small stream flow data for habitat characterization

Rutherford A.M.P., Leroux G.\*, Senecal C., Boutin A. and Madramootoo C.

Microwave pretreatment of SBR sludge to enhance anaerobic digestion: (preliminary results)

Thibault G.\*, Droste R.L. and Kennedy K.J.

Fate of mercury in wastewater, sludge and gaseous streams at a secondary WWTP

Zhang H.\*, Kennedy K., Parker W., O'Driscoll N. and Lean D.