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Polytechnique Montréal, Pavillons Mackay-Lassonde



Liste des présentations / list of presentations

Présentations orales:

Thème 1 : Bassins Versants/Watershed

Analyse de l'influence des variables pluviométriques sur les concentrations et flux événementiels des effluents urbains en temps de pluie

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Analyse de la vulnérabilité des prises d'eau

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Applying an online multi-probe to monitor the potentially toxic cyanobacteria in Lake Erie

P. PAZOUKI¹, S. DORNER², R. BOUCHARD³, A. ZAMYADI⁴

¹Department of Civil, Geological and Mining Engineering; ²Department of Civil, Geological and Mining Engineering; ³Union Water Supply System (UWSS); ⁴University of New South Wales

Apports des projets PACES sur la connaissance de la qualité et de la vulnérabilité de la ressource en eau souterraine à l'échelle régionale.

Exemple des zones de Bécancour et de Nicolet / Bas-Saint-François

G. MEYZONNAT¹, D. BARNETCHE¹, M. LAROCQUE¹, F. BARBECOT¹, S. GAGNÉ¹, H. CABANA²

¹GÉOTOP-UQAM, Département des sciences de la Terre et de l'atmosphère; ²Université de Sherbrooke, Département de génie civil, Laboratoire de génie de l'environnement

Challenges related to drinking water quality and chlorine disinfection in a remote Amazonian community (Puruzinho, Brasil)

F. LÉGARÉ-JULIEN ¹, M. RODRIGUES MIRANDA ², W. RODRIGUES BASTOS ³, C. C. DOREA ⁴

¹Département de génie civil et de génie des eaux, Université Laval, Québec; ²Laboratory of Environmental Biogeochemistry- Federal University of Rondônia, Brasil; ³Laboratório de Biogeoquímica Ambiental, Fundação Universidade Federal de Rondônia – UNIR (Laboratory of Environmental Biogeochemistry- Federal University of Rondônia); ⁴Département de génie civil et de génie des eaux, Université Laval

Cyanobacterial dominance in Missisquoi Bay - An analysis of the factors causing frequent bloom formations in the northern est part of Lake Champlain

M.-L. DE BOUTRAY^{1,2}, M. NDONG¹, E. MAGSHOUDI¹, Y. COMEAU¹, B. VINÇON-LEITE², B. J. LEMAIRE^{2,3}, S. DORNER¹

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Event-based analysis of the microbiological quality of the affluent and effluent in a wastewater treatment plant

S. TOLOUEI ¹, L. AUTIXIER ¹, M. PRÉVOST ², J. BONSTEEL ³, S. SAUVÉ ⁴, S. DORNER ⁵

¹ École Polytechnique de Montréal, Civil, Geological and Mining Engineering department; ² NSERC Industrial Chair on Drinking Water; ³ Ontario water work association; ⁴ École Polytechnique de Montréal, Chemistry Engineering Department; ⁵ Canada Research Chair in Source Water Protection

Modeling and assessment for a constructed wetland using a hybrid fuzzy-stochastic modeling approach

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Modeling of chlorophyll-a concentration in a lake using an artificial neural network

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Preventing cyanobacteria blooms: The critical role of anoxia and ferrous iron

L. MOLOT ¹, S. WATSON ², I. CREED ³, C. TRICK ³, S. MCCABE ¹, M. VERSCHOOR ¹, R. VENKITESWARAN ⁴, C. POWE ¹

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The effect of sophorolipid biosurfactant on the dispersion of light crude oil and biodiesel (B100) in the sea water

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Thème 2- Contaminants traces/Traces Contaminants

A bacteriological analysis incubator for resource limited contexts

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Adsorption of perfluoroalkyl acids onto activated carbon: role of carbon pore structure and surface chemistry

Y. ZHI¹, J. LIU¹

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An evolving strategy for reducing water treatment coagulant residuals

W. JAMES¹, S. CRAIK¹, A. SUAREZ¹, S. MOLLA¹ and S. HEIDARY-MONFARED¹

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Dissolution behavior of silver nanoparticles in municipal wastewaters by single-particle mode ICP-MS

M. AZODI¹, F. PICCAPIETRA¹, S. GHOSHAL¹

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Detection and characterization of engineered nanoparticles in municipal wastewater effluent and biosolids by single-particle ICP-MS analysis

F. PICCAPIETRA^{1,2}, Nathalie TUFENKJI² & S. GHOSHAL¹

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Effect of ozonation on the characteristic transformation of natural organic matter (NOM), humic acid (HA), and fulvic acid (FA), and their subsequent formation potential of trihalomethanes (THMs)

M. SADRNOURMOHAMADI¹, B. GORCZYCA²

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Electro-catalytic oxidation of ethylene glycol

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Elucidating cytotoxicity of engineered nanoparticles during attached growth biological treatment process using lab-scale moving bed bioreactors

S. ALIZADEH¹, Y. COMEAU¹, S. GHOSHAL², F. PICCAPIETRA², M. FERRET¹

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Fast analysis of selected polyfluorinated chemicals in water matrices: laser diode thermal desorption / atmospheric pressure chemical ionization (LDTD/APCI) coupled to Orbitrap Mass Spectrometry

G. MUNOZ^{1,2}, S. VO DUY², H. BUDZINSKI³, P. LABADIE³, J. LIU⁴, and S. SAUVÉ²

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Generation of PFOS from aerobic soil biotransformation of two perfluoroalkyl sulfonamide derivatives

S. M. AVENDAÑO¹, J. LIU¹

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Hydraulic calibration of wastewater treatment plants as a key tool for the evaluation and comparison of the removal efficiencies of contaminants of emerging concern

Z. BAALBAKI¹, F. CLOUTIER², P.A. VANROLLEGHEM² and V. YARGEAU¹

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Membranes photocatalytiques pour le traitement de polluants organiques

M. HATAT-FRAILE¹, R. LIANG¹, Y. NORMAN ZHOU¹

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Procédés d'oxydation avancée pour l'élimination du naproxène des eaux

C. JEANNEY¹, R. LEDUC²

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Thème 3-Traitement des eaux usées-Valorisation des ressources/Wastewater treatment resource recovery

Acidogenic treatment for small cheese producer wastewater to improve the performance of UASB digesters

D. VALLERAND¹, R. LA ROCHE², Y. COMEAU¹

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Biocapture of biodegradable organic matter in a high-loaded MBBR

B. ÉMILE¹, M.-A. LABELLE¹, C. BROSSEAU¹, É. LAFLAMME², A. GADBOIS², P.L. DOLD³ and Y. COMEAU¹

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Biopolymer production by mixed culture and their applications in water and wastewater treatment

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Capacité de traitement maximale d'un média fixe inerte

E. BOUTET¹, S. BAILLARGEON², B. PATRY¹, P. LESSARD¹

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Conditions pour la prise en charge optimale du phosphore par un média activé

G. DUMESNIL^{1,2}, G. BUELNA², R. DUBÉ² et P. LESSARD¹

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Development, implementation and use of a generic nutrient recovery model (NRM) library

C. VANEECKHAUTE^{1,2}, F.H.A. CLAEYS³, F.M.G. TACK², E. MEERS², E. BELIA⁴, P.A. VANROLLEGHEM¹

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Evaluation of ion exchange capacity of acid activated, thermally treated Na-Bentonite as a cheap alternative for ammonium removal in aquaculture

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Evaluation of pre-treatment technologies to enhance anaerobic digestion efficiency: mass-energy balance and greenhouse gas emissions.

S. PILLI¹S. YAN¹, R. D. TYAGI¹ and R. Y. SURAMPALLI²

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Procédé IFAS : comportement et optimisation du biofilm en nitrification

P. MORETTI¹, J.M. CHOUBERT¹, J.P. CANLER¹, O. PETRIMAUX², P. BUFFIERE³ and P. LESSARD⁴

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Production of feed and food-grade bioprotein, characterization and recovery of residual fermented protein from whey fermentation

J. S. S. YADAV¹, S. YAN¹, R. D. TYAGI¹ and R. Y. SURAMPALLI²

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Sequential disinfection of wastewater using ferrate and ultraviolet light

N. LINKLATER¹, B. ORMECI¹

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The feasibility of enhancing petroleum hydrocarbon biodegradation under high salinity through selective biostimulation

C. DAVID¹, A. AKBARI¹, S. GHOSHAL¹

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C. BOURGAULT¹, P. LESSARD¹, C. DOREA¹

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Chemically enhanced capture of particulate organics from a highly loaded MBBR

C. BROSSEAU¹, M.-A. LABELLE¹, B. EMILE¹, E. LAFLAMME², A. GADBOIS², P.L. DOLD³ and Y. COMEAU¹

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Determination of stability constant of chlortetracycline-metal complexes and its relation with retention of chlortetracycline in wastewater sludge

R. PULICHARLA¹, S.K. BRAR¹, P. DROGUI¹, M. VERMA², R.Y. SURAMPALLI³, J. R. VALERO¹

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Development of a venturi aeration system for wastewater treatment in low-resource settings.

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Enzymes ligninolytiques et contaminants émergents: une solution innovante pour une problématique émergente

I.E. TOUHAR¹, L. HAROUNE², S. SAIBI¹, S. BA³, J.P.JONES³, J.-P. BELLENGER² et H. CABANA¹,

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Établir les concentrations naturelles et la signature $\delta^{13}\text{C}$ du méthane dans les eaux souterraines peu profondes des Basses Terres du Saint-Laurent, QC, Canada: Un outil pour déterminer la contamination éventuelle par le gaz de schiste

A. MORITZ¹, J.-F. HÉLIE², D. PINTI², M. LAROCQUE², D. BARNETCHE², S. RETAILLEAU², R. LEFEBVRE³ et Y. GÉLINAS¹

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D. CLAVEAU-MALLET¹, F. LIDA¹ and Y. COMEAU¹

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Lipid extraction from oleaginous microbe with ultra-sonication assistance

X. ZHANG¹, S. YAN¹, R. TYAGI¹, R. SURAMPALLI², P. DROGUI¹

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Physico-chemical, microbial quality of community water sources and community management perspectives in rural south western Cameroon

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Procédés d'oxydation avancée pour l'enlèvement de l'acétaminophène dans les eaux

C. THIEC¹, R. LEDUC²,

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Removal of perfluoralkyl substances from impacted water following the Lac Mégantic catastrophe

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Sorption of microconstituents onto activated sludge- the influence of alum addition

Y. ZHU¹, R.L. DROSTE¹

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Spore inactivation in biosolids using BioElectro process

M. ELEKTROWICZ¹, E. SAFAEI², R. REIMERS³, J. OLESZKIEWICZ⁴, B. JITARU⁵

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Valorisation du Zinc présent dans les effluents acides issus de la lixiviation de poussières d'aciéries (EAFD) par précipitation et électrodéposition

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