



PAPTAC / ATPPC

# EXFOR<sup>®</sup> & Annual Meeting 2009 EXFOR<sup>®</sup> et le Congrès annuel 2009

Fairmont Queen Elizabeth  
Montreal (Quebec) Canada  
February 3 & 4, 2009

Fairmont Le Reine Élizabeth  
Montréal (Québec) Canada  
3 et 4 février 2009



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learn about the latest!*

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nouveauautés!*

Program/Programme

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FRIENDS/AMIS:



**Monday • Lundi 2 FE**

Morning/Avant-midi

Committee Meetings • Réunions des comités  
 Installation EXFOR Move-in

Afternoon / Après-midi

Committee Meetings • Réunions des Comités  
 Installation EXFOR Move-in

**Tuesday • Mardi 3 FE**

Morning/Avant-midi

**8:00: Plenary Session - Pierre Pettigrew, Deloitte & Touche LLP**  
**8h00: Séance plénière - Pierre Pettigrew, Deloitte & Touche LLP**  
 The new Canada-U.S. balance - Results of the Canadian and U.S. elections:  
 • Bilateral relations between Canada and the U.S.  
 • Economic relations between North America and emerging economies

Afternoon / Après-midi

**BUSINESS / AFFAIRES #1** DELOITTE & TOUCHE LLP:  
 Managing your Business in an Economic Vortex

Mechanical Pulping I/  
 Mise en pâte mécanique I

Research I/Recherche I

Biorefinery I/Bioraffinage I

Non-wood Fibres/Fibres non-ligneuses

Recycling/Recyclage

**BUSINESS / AFFAIRES # 2**

Process control I/ Contrôle des procédés I

Biorefinery II/Bioraffinage II

**PANEL**

Mechanical Pulping II/  
 Mise en pâte mécanique II

**FASKEN MARTINEAU DUMOULIN LLP:**  
 Carbon strategy/Stratégie carbone

Bleaching/Blanchiment

Research II/Recherche II

16:00-17:30:  
 PAPTAC welcoming reception  
 16h00-17h30:  
 Réception de bienvenue de l'ATPPC



**Wednesday • Mercredi 4 FE**

Morning/Avant-midi

**BUSINESS / AFFAIRES #3** CASCADES: Innovation

Paper Machine Technology I/  
 Technologie de la machine à papier I

Energy/Energie

Suppliers Showcase/La vitrine des fournisseurs

PAPIER Student Posters/Séance des posters PAPIER

**MILL MANAGERS' BREAKFAST FORUM**  
 (by invitation only)

**PANEL**

Process Control II/  
 Contrôle des procédés II

PAPTAC Annual Business Meeting  
 and Awards Ceremony/  
 Assemblée générale annuelle de  
 l'ATPPC et cérémonie de remise  
 des prix de

Afternoon / Après-midi

**BUSINESS / AFFAIRES #4**

Paper Machine Technology II/  
 Technologie de la machine à papier II

E/I Engineering & Maintenance/  
 Génie électrique - instrumentation et  
 entretien

Environment/Environnement

**HYDRO-QUÉBEC:**  
 Energy management/Gestion de l'énergie

Fine and Coated Papers/  
 Papiers fin et couchés

PAPIER Student Posters/  
 Séance des posters PAPIER

**Sponsored Lunch from 12:00 to 13:00 (badge required)**

**Diner offert de 12 h 00 à 13 h 00 (badge requis)**

**PLENARY SESSION/SÉANCE PLÉNIÈRE**

Honorable Pierre S. Pettigrew, Executive Advisor, International, Deloitte & Touche LLP

Room: Gatineau-Saint Laurent

- The new Canada-U.S. balance - Results of the Canadian and U.S. elections:
- Bilateral relations between Canada and the U.S.
- Economic relations between North America and emerging economies



**BUSINESS PROGRAM/SESSION AFFAIRES**

Managing your Business in an Economic Vortex

Moderator/Modérateur: L. Martin,

National Manufacturing Leader, Deloitte & Touche LLP

Room: Gatineau-Saint Laurent



9:00 D. Mackenzie, Deloitte "Financing Innovation"

9:45 J. McNutt, Center for Paper Business and Industry Studies, USA "Industry Trends"

10:30 C. Dion & J. Gelinas, Deloitte "Driving Cost out of your System"

11:00 A. Barke, Deloitte "Optimizing your Business Strategy"

**BUSINESS PROGRAM/SESSION AFFAIRES**

Carbon Strategy: managing the risks and maximizing the business opportunities/stratégie carbone: gérer les risques et maximiser le potentiel d'affaires

Host/Organisateur: Fasken Martineau DuMoulin LLP

Moderator/Modérateur:

A. Turmel, Lawyer - Equity Partner, Fasken

Martineau DuMoulin LLP, Montreal, QC

Room: Gatineau-Saint Laurent



13:00 P. Lansbergen, Director, Taxation and Business Issues and FPAC Secretary, Forest Products Association of Canada, Ottawa, ON, "The Canadian Regulatory Framework: its impacts on the Pulp and Paper Industry as well as on the Forest Industry"

13:30 F. Dagicour, Lawyer, Fasken Martineau DuMoulin LLP, Montreal, QC, "How to Monetize your GHG Emissions Reductions? - Other Carbon Markets and Business Opportunities"

14:00 F. Gagnon-Lebrun, Director - Climate Change, EcoRessources Consultants, Montreal, QC, "The Voluntary Market: Offset Projects, Certification, Validation and other Relevant Steps"

14:30 E. Coté & M. Régis, Raymond Chabot Grant Thornton, Montreal, QC "Carbon Management: Putting a Climate Strategy into Action"

15:00 P. Riebel, Director - Environment, UPM-Kymmene, Miramichi, NB, "Carbon Footprint and Carbon-neutral Products: a Competitive Advantage?"

15:30 - 16:00:

Questions & Discussion

**BUSINESS PROGRAM/SESSION AFFAIRES**

Innovation: A Key for the Future/ Innovation: Une clé pour l'avenir

Host/Organisateur: Cascades Inc.

Moderator/Modérateur:

Roger Gaudreault, General Manager of Research & Development, Cascades Canada Inc., Kingsey Falls, QC

Room: Gatineau-Saint Laurent



9:00 R. Gaudreault, General Manager of R&D, Cascades Canada Inc., Kingsey Falls, QC "World Innovation"

9:30 Keynote Speaker: B. Engleman, Business Development Manager, SRI International, Menlo Park, CA, USA. "SRI International's Five Disciplines of Innovation: a process for the Exponential Economy"

10:00 J. Hamel, General Manager of Research, FPIInnovations Paprican Division, Pointe Claire, QC. "From research to innovation: the key factors for business success"

10:30 N. Withington, Coordinator of Product Development, Norampac - Packaging & Innovation Centre - A Division of Cascades Canada Inc. "Cascades Innovation Management System and examples of Sustainable Innovations"

11:00 S. Rousseau, Senior Vice-President, Publication Papers, Montreal, QC, "Innovation Approach at Kruger Inc - The Hide-Pack Project"

**BUSINESS PROGRAM/SESSION AFFAIRES**

Managing Energy Costs-The Successful Path/

Gérer les coûts d'énergie - le chemin de la réussite

Host/Organisateur: Hydro Québec

Moderator/Modérateur:

Luc Beaudoin, Hydro-Québec, Montreal, QC

Room: Gatineau-Saint Laurent



13:00 T. Browne, Program Manager, FPIInnovations, Pointe Claire, QC "Benchmarking energy use in pulp and paper mills"

13:30 C. Demers, Science Communicator, Hydro-Québec, Montreal, QC "Outlook of energy prices (electricity, fossil and biomass)"

14:00 B. Begin, Hydro-Québec, Technical services - engineer "Diagnostic approach that "triggers" implementation of energy savings"

14:30 P. Navarri, Senior Project Manager, CanmetEnergy, Natural Resources Canada, Varennes, QC "Energy Management in Kraft Mills: The Role of Process Optimization Tools"

15:00 "Round Table Discussion: The forest products industry and renewable energy - opportunities and threats."

**Mechanical Pulping I / Mise en Pâte Mécanique I**

<i>Host/Organisateur:</i>	Mechanical Pulping Committee/Comité de la mise en pâte mécanique
<i>Moderator/Moderateur:</i>	R. Lanouette, UQTR - CIPP, Trois -Rivières, QC Canada
<i>Award Presentation/ Remise de prix</i>	Douglas Atack Award for the Best Mechanical Pulping Paper <i>Prix Douglas Atack pour la meilleure communication sur la pâte mécanique</i>

**Room: Richelieu**

- 9:00** High Performance Multi-Element Foil Pulp Screen Rotor, M. Hamelin, Aikawa Group, QC, S. Delfel, Y. Ni, **J. OLSON** and C.F. Ollivier-Gooch, UBC, BC, and R. Gooding, Aikawa Group
- 9:30** Interactions of Optical Brightening Agents with high yield pulps, **R. ZHANG** and Y.Ni, UNB/Limerick Pulp & Paper Centre, NB, D. Wong, J. Schmidt, C. Heitner and B.D. Jordan, FPIInnovations, Paprican Division, QC, Canada
- 10:00** Impact of HYP substitution on the brightness stability of uncoated HYP-containing paper, **Z. HE**, L. Hui, Y. Ni, UNB/Limerick Pulp & Paper Centre, NB, Z. Liu, Tianjin Key Laboratory of Pulp and Paper, China and Y. Zhou, Tembec Industries inc., QC
- 10:30** Enzyme-based approaches for pitch control in thermomechanical pulping of softwood and pitch removal in process water, **E. DUBÉ**, Y. Hurtubise, M. Beauregard and C. Daneault, CIPP/ UQTR, QC and F. Shareck, INRS - Institut Armand-Frappier, QC
- 11:00** TMP from blends of wood species – implications for control, **I. OMHOLT**, K. Miles, M. Stacey and D. Drainfield, FPIInnovations, Paprican Division, QC

**Biorefinery I/ Bioraffinage I**

<i>Host/Organisateur:</i>	Canadian Forest Biorefinery Network/Réseau canadien du bioraffinage forestier
<i>Moderator/Moderateur:</i>	T.C. Browne, FPIInnovations, Paprican Division, QC

**Room: Bersimis**

- 9:00** Partnerships for Successful Enterprise Transformation of Forest Industry Companies Implementing the Biorefinery, **V. CHAMBOST** and P. R. Stuart, École Polytechnique de Montréal, QC and J. McNutt, Center for Paper Business and Industry Studies, USA
- 9:30** Process Simulation of the Forest Biorefinery, **M. JANSSEN**, S. Rasamoëla, D. Romaric-Batsy and P.R. Stuart, École Polytechnique de Montréal, QC
- 10:00** Analysis of a Biorefinery Integration in a Bisulfite Pulp Process, Z. Périn-Levasseur and F. Maréchal, École Polytechnique Fédérale de Lausanne, Switzerland and **J. PARIS**, École Polytechnique de Montréal, QC
- 10:30** Photoelectrochemical modification of lignin and lignin model compounds, **A. CHEN**, M. Tian, D. MacDonald, J. Wen, R.M. Asmussen and G. Wu, Lakehead University, ON

**Recycling/ Recyclage**

<i>Host/Organisateur:</i>	Recycling Committee/Comité du recyclage
<i>Moderator/Moderateur:</i>	Y. Ben, FPIInnovations, Paprican Division, QC Canada

**Room: Matapedia**

- 9:00** Water is the Key, **L. DEWHURST**, ALGAS Fluid Technology Systems AS, Norway/Tecumseth Group, ON
- 9:30** A Decade of Studying the Summer Effect, **R.D. HAYNES**, EKA Chemicals Inc., GA, USA
- 10:00** Comparison of Deinking of Old Newspaper in Neutral and Alkaline Conditions, S. Wang, W. Zhang, M. Qin and **F. KONG**, Shandong Institute of Light Industry, P.R. China
- 10:30** Modular Deinking Technology, **M. PEScantin**, Comer. S.p.A., ON
- 11:00** Protocol for Evaluating Flotation Aids with a Laboratory - Scale Flotation Column, **M. RICARD**, G.M. Dorris and C. Lapointe, FPIInnovations, Division Paprican, QC
- 11:30** Understanding and Reducing Colloidal Organic Variability With On-Line Detection, **R.D. HAYNES**, EKA Chemicals Inc., GA USA

**Visit EXFOR®!**

**Tuesday & Wednesday from 9:00-17:00**

**Visitez EXFOR®!**

**Mardi & Mercredi de 9 h - 17 h**

## Research I/ Recherche I

<i>Host/Organisateur:</i>	Research Committee/Comité de la recherche
<i>Moderator/Moderateur:</i>	T. van den Ven, McGill University, QC

## Room: Harricana

- 9:00** Enhancing Papermaking Properties of Secondary Fibres by Tempo Oxidation, **C. GOMES**, K.N. Law, C. Daneault and B. Chabot, CIPP/ UQTR, QC
- 9:30** Dimensional Stability of Paper Containing BCTMP Fibres, **Z. LI, C. Camm, Z. Chen and K. Li**, UNB/Limerick Pulp & Paper Centre, NB
- 10:00** Effect of white water solid content on fluidized bed expansion behavior, **E. LORANGER**, C. Daneault and B. Chabot, UQTR - CIPP, QC
- 10:30** Polymer conformation effect on the fibre retention process- Study of blocking agent systems, **O. OULANTI**, B. Chabot, F. Brouillette and C. Daneault CIPP/ UQTR, QC
- 11:00** New Nanoparticle Silica Technology Pushes Retention and Drainage Performance, **M. ZEMPEL**, EKA Chemicals Inc., USA
- 11:30** Measurement of Interfibre Friction Forces by Atomic Force Microscopy, **F. HUANG** and K Li, UNB/Limerick Pulp and Paper Research Centre, NB and A. Kulachenko, KCL Science and Consulting, Finland

## Non-Wood Fibres/Fibres non-ligneuses

PANEL

<i>Host/Organisateur:</i>	Non-Wood Fibres Committee Comité des fibres non-ligneuses
<i>Chairman/Animateur:</i>	R. Hurter, HurterConsult Inc., ON

## Room: Chaudière

- 9:00** Wheat Sheet - A Nonwood Pulp Success Story  
**W. CHUTE**, Alberta Research Council, AB - Market Pulps from Cereal Straw, Hemp and Flax
- 9:30** Alternative Uses for byproducts of a shortline hemp decortication process,  
**L. MCILVEEN**, Alberta Research Council, AB
- 10:00** **Panel Discussion on the Role of Nonwood Fibres in Pulp, Paper, Fibreboard and Allied Industries**  
**L. MCILVEEN**, Alberta Research Council, AB - AG Materials in Fibreboard  
**W. CHUTE**, Alberta Research Council, AB - Market Pulps from Cereal Straw, Hemp and Flax  
**Y. BOLUK**, Alberta Research Council, AB - Cellulose and Hemicellulose-Based Products from Wood and Agricultural Fibres  
**A. EINI**, Markets Initiative, BC - Market Demand for Tree-Free Paper

Visit EXFOR®!

Tuesday &amp; Wednesday from 9:00-17:00

Visitez EXFOR®!

Mardi &amp; Mercredi de 9 h - 17 h

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**Process Control I/ Contrôle des procédés I**

*Host/Organisateur:* Process Control Committee/Comité du contrôle des procédés

*Moderator/Moderateur:* P. Gauthier, Kruger inc., QC

**Room: Chaudière**

- 13:00** An Economic Model of a Steam Plant for Decision Making, **M. RUEL**, Top Control inc., QC
- 13:30** Reduction in quality variation in a continuous digester using model predictive control, **A. MALHOTRA**, Honeywell Process Solutions, BC, M. Rahm, Honeywell, USA and M.T. Brown, Honeywell, USA
- 14:00** Development of Automated Tools for Data Mining Project Implementation in the Pulp and Paper Industry, **R. PLATON** and M. Amazouz, Canmet Energy Technology Centre, QC, G. Labonne and Y. Gilbert, Smurfit Stone, QC
- 14:30** Dynamic Data Reconciliation of Batch Pulping Processes, J.P. Rankin, Tembec Enterprises Inc., ON and **L. WASIK**, Aurel Systems Inc., BC
- 15:00** Managing Assets Using Modern Tools at White Birch Paper (Pulp and Paper Mill), **M. RUEL**, Top Control inc., QC and E. Tremblay, Papiers White Birch, QC

**Bleaching/Blanchiment**

*Host/Organisateur:* Bleaching Committee/Comité du blanchiment

*Moderator/Moderateur:* M.H. Schofield, Hercules Inc., QC

*Award Presentation/  
Remise de prix*  
Howard Rapson Memorial Award for the Best Chemical Pulp Bleaching Paper  
*Prix commémoratif Howard Rapson pour la meilleure communication sur le blanchiment de la pâte chimique*

**Room: Peribonca**

- 13:00** Rate Determining Step in O2 Oxygen Delignification, Y. Ji, National Renewable Energy Laboratory, USA, E. Vanska, Helsinki University of Technology, Finland and **A. VAN HEININGEN**, University of Maine, USA
- 13:30** Impact of kraft pulping and bleaching parameters on Eucalyptus Camaldulensis pulp properties, **P. FATEHI**, S. Arabshahi and Z. Ziaee, UNB/Limerick Pulp and Paper Centre, NB and R.O. Malinen, Asian Institute of Technology, Thailand
- 14:00** MgSO4 vs Mg(OH)2 as a Cellulose Protector in Oxygen Delignification, **J. BOUCHARD**, J. Wang and R. Berry, FPInnovations, Paprican Division, QC
- 14:30** Improving chlorine dioxide bleaching of a softwood kraft pulp by using magnesium hydroxide for pH control, **Z. HE** and Y. Ni, UNB/Limerick Pulp and Paper Centre, NB

**PANEL**

**Mechanical Pulping II / Mise en Pâte Mécanique**

*Host/Organisateur:* Mechanical Pulping Committee/Comité de la mise en pâte mécanique

*Moderator/Moderateur:* I. Omholt, FPInnovations, Paprican Division, QC

**Room: Richelieu**

**13:00 Mechanical Pulping Panel: Energy Consumption in Mechanical Pulping**

The electrical energy represents a significant part of the cost of producing mechanical pulp. Overall reduction of the energy consumption per ton of paper has been an objective more or less since the introduction of refiner pulp, while the need for stronger and better mechanical pulps over the years has pulled in the opposite direction. However, the work to find com promises and to reduce the energy consumption kW by KW goes on continuously in the mills, at the research institute and through the suppliers. The session will be divided into two parts:

- 1) Focussing directly on mill experiences and
- 2) Research and Development

**PANEL PARTICIPANTS:**

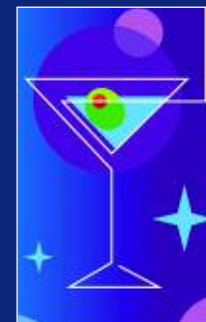
Martin Fairbank, AbitibiBowater, QC  
Surendra Singh, Alberta Newsprint, AB  
Scott Shannon, Millar Western, AB



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**Welcoming Reception  
16:00-17:30**

**Réception de bienvenue  
16h00-17h30**



**Biorefinery II/Bioraffinage II**

<i>Host/Organisateur:</i>	Canadian Forest Biorefinery Network/Réseau canadien du bioraffinage forestier
<i>Moderator/Modérateur:</i>	P.R. Stuart, École Polytechnique de Montréal, QC

Room: Bersimis

- 13:00** Pre-extraction PSAQ Pulping of Siberian Larch, **R. KAMPPPI**, A. Leponiemi and H. Horhammer, Department of Forest Products Technology, Finland and A. Van Heiningen, University of Maine, USA
- 13:30** Hemicellulose pre-hydrolysis of mixed hardwood chips with water, **H. LI**, A. Saeed and Y. Ni, UNB/Limerick Pulp and Paper Centre, NB, and A. van Heiningen, University of Maine, USA
- 14:00** High Consistency Enzymatic Hydrolysis of Hardwood Substrates, **X. ZHANG** and M. Paice, FPInnovations, Paprican Division, QC, W. Qin and J. Saddler, UBC, BC
- 14:30** Hydrolysis of near neutral hemicellulose extracts catalyzed by sulfur dioxide (SO<sub>2</sub>), **R. JARA** and A. Van Heiningen, University of Maine, ME and J. Grundy, Harvard University, USA
- 15:00** Integrating Bioethanol Production into a Kraft Pulp Mill - Technology Assessment, **E. HYTÖNEN** and P.R. Stuart, École Polytechnique de Montréal, QC

**Research II/ Recherche II**

<i>Host/Organisateur:</i>	Research Committee/Comité de la recherche
<i>Moderator/Modérateur:</i>	P. Mangin, CIPP-UQTR, QC

Room: Harricana

- 13:00** Alkaline Condensation Reactions of Lignin Model Compounds, **D. KANUNGO**, S.K. Bose and R.C. Francis, SUNY-ESF, USA and N.-H. Shin, Andritz Inc., USA
- 13:30** A study of polymerization of aspen (Populus) wood lipophilic extractives by SEC and Py-GC/MS, **B. SITHOLÉ**, B. Ambayec, L. Lapierre, N.-H. Shin and L. Allen, FPInnovations, Paprican Division, QC
- 14:00** Bacteriophage Immobilization on Paper Surface: Effect of Cationic Pre-Coat Layer **T. JABRANE**, M. Dubé and P. Mangin, UQTR - CIPP, QC
- 14:30** Preparation of Paper-Based Test Strips for Aqueous Chromium (VI) Samples **F. Kong**, Shandong Institute of Light Industry, China and **Y. NI**, UNB/Limerick Pulp and Paper Centre, NB
- 15:00** Modifying the Functionality of Mechanical Fibre and Its Impact on Whitewater Quality, **K. LAW**, P. Ma and C. Daneault, UQTR - CIPP, QC

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**Welcoming Reception  
16:00-17:30**

**Réception de bienvenue  
16h00-17h30**



**ROUNDTABLE  
TABLE RONDE**
**Process Control**

<i>Host/Organisateur:</i>	Process Control Committee/Comité du contrôle des procédés
<i>Moderator/Moderateur:</i>	P. Gauthier, Kruger inc., Trois-Rivières, QC Canada

Room: Chaudière

**9:00 What is the Best Way to Control Today's Processes** - Why, How and Where - Using Advanced Forms of Control Rather than Conventional Control

**PANEL PARTICIPANTS:**

Michel Ruel – Top Control, QC  
 Benoit Janvier – EneroSolution, QC  
 Chris McNabb – Matrikon, AB  
 Amazouz Mouloud – Natural Resources Canada, QC  
 Luc Laperrière – UQTR/CIPP

**Sponsored Lunch from 12:00 to 13:00** (badge required)  
**Dîner offert de 12 h 00 à 13 h 00** (badge requis)

**Energy/Énergie**

<i>Host/Organisateur:</i>	Energy Committee/Comité de l'énergie
<i>Moderator/Moderateur:</i>	L. Kosiak, Tembec Industries inc., QC
<i>Award Presentation/ Remise de prix</i>	Energy Conservation Award <i>Prix de l'économie d'énergie</i>

Room: Harricana

- 9:00** Higher energy performance at AbitibiBowater Kénogami mill using data mining, G. St-Pierre and M.G. Fairbank, AbitibiBowater Inc., QC and **S. LAFOURCADE**, Pepite Technologies, QC
- 9:30** 50% Reduction in thermal energy usage at Alberta Newsprint, **S. SINGH**, C. Mills and A. World, Alberta Newsprint Company, AB
- 10:00** Managing Combustibles and Operations using Real Time Data, Economic Values and Contract Clauses using your DCS, **M. RUEL** and M. Emond, Top Control Inc., QC
- 10:30** Greenhouse Gases and Multi-Fueled Boilers A Case Study in Efficiency improvements on Renewable fuel usage Abitibi Bowater, Alstom Power, Canada, Cook Engineering, and Automation Applications Inc, LLC, T. Woosley, AbitibiBowater, ON, R.G. Feindel, Alstom Power, Canada, ON, R. Matchett, C.E.T., Cook Engineering, ON and **R. MORRISON**, Automation Applications Inc., LLC, USA
- 11:00** Système d'Information sur la Gestion de l'Énergie (SIGE), **É. ALLEN**, Cascades inc. - Groupe d'Intervention en Énergie, QC

**Paper Machine Technology I- Advances in Papermaking Concepts  
 Technologie de la machine à papier I – Progrès technologiques au niveau  
 des concepts de fabrication du papier**

<i>Host/Organisateur:</i>	Paper Machine Technology Committee/Comité technologique de la machine à papier
<i>Moderator/Moderateur:</i>	M. Soucy, Kadant Canada Corp., ON
<i>Award Presentation/ Remise de prix</i>	Jasper Mardon Memorial Prize for the Best Paper Contributing to the Advancement of Papermaking <i>Le prix commémoratif Jasper Mardon pour la meilleure communication ayant participé au développement de la fabrication du papier</i>

Room: Richelieu

- 9:00** The Effect of Dryer Section Operation on the Linting Propensity of Newsprint, **J.D. MCDONALD**, FPIInnovations, Paprican Division, QC and M. Tchepel, FPIInnovations, Paprican Division, BC
- 9:30** Bavarian behemoth for SC-A: PLATTLING PAPIER, GERMANY – PM 1, **M. TUOMISTO**, Metso Paper USA, Inc., USA
- 10:00** New Coating Concepts and their Potential for Efficient Production, **M. SCHMID**, Voith, USA
- 10:30** The Effect of Center Plane Resistance on the Drainage Property of Forming Fabric, **J. XU**, R. Danby and D. Johnson, Astenjohnson Inc, Fabric Research Group, ON and J. VANDERKOLK, Astenjohnson Inc, USA
- 11:00** Papermaker Movies: If a picture is worth 1000 words, what's a movie worth?, **D. PERNSTEINER**, EKA Chemicals, Inc, USA

**11:30-12:00 PAPTAC Annual Business Meeting  
 and Awards Ceremony**
**Assemblée générale annuelle de l'ATPPC et  
 cérémonie de remise des prix**
**MILL MANAGERS' BREAKFAST FORUM**

*(by invitation only)*

**7:30 am to 9:00 am**

St-Charles Room (Convention Level),

Mobilize your personnel to face the industry challenges  
 Mobilisez votre personnel pour faire face aux défis de l'industrie

*Moderator/Moderateur:* J.Descôteaux, Abitibi-Bowater, Kénogami

*Presenter and moderator/Présentateur et modérateur:*

J.-C. Savard, President, JCS Consultants

## Papier Student Poster Session/Affiches des étudiants PAPIER

<i>Sponsor/Organisateur:</i>	PAPIER - Canadian Pulp and Paper Network for Innovation in Education and Research/Réseau canadien de pâtes et papiers pour l'innovation en éducation et en recherche
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### Room: Convention Floor

- 1) Hydrophobizing cellulose fibers to test theories of wet paper, **N. BERNSTEN**, A. Tejado and T. Van De Ven, McGill University, QC
- 2) Combustion Behaviour of Petroleum Coke, **X. FAN** and H. Tran, University of Toronto, ON
- 3) Recycled Paper Properties Optimized with Tempo-mediated Oxidation, **C. GOMES**, K.N. Law, C. Daneault and B. Chabot, CIPP – UQTR, QC
- 4) Polyvinylamine-boronate Wet Adhesion, **W. CHEN**, S. Notley and R. Pelton, McMaster University, ON
- 5) Effect of Tempo-mediated Oxidation of Kraft Pulp on Strength Properties of Papers Containing Fillers, **R. GUIMOND**, B. Chabot and C. Daneault, CIPP – UQTR, QC
- 6) Coating of Bioactive Paper: Effect of a Pre-coat on Phage Infectivity, **T. JABRANE**, M. Dubé and P. Mangin, CIPP – UQTR, QC
- 7) Physicochemical Study of Factors Inducing Piling in Heatset Offset Lithography, **A. CHAMI KHAZRAJI**, P. Mangin and F. Brouillette, CIPP – UQTR, QC
- 8) Use of Enzymes in the Bleaching of Deinked Pulp, **L.M. LANTEIGNE ROCH**, C. Leduc and C. Daneault, CIPP – UQTR, QC
- 9) Effect of White Water Composition on Fluidized Bed Expansion Behaviour, **E. LORANGER**, C. Daneault and B. Chabot, CIPP – UQTR, QC
- 10) Understanding Low Consistency Refining of Mechanical Pulps, **A. LUUKKONEN**, J. Olson and D.M. Martinez, UBC, BC
- 11) The Influence of Surface Functionality of Mechanical Fibres on Papermaking, **P. MA**, K.N. Law and C. Daneault, CIPP – UQTR, QC
- 12) Separation in a Yield Stress Fluid **A. MADANI**, D.M. Martinez and J. Olson, UBC, BC
- 13) Effect of Flame Length on Lime Kiln Operation, **I. NIKOLAEV** and H. Tran, University of Toronto, ON
- 14) Adsorption Kinetics of White Water Contaminants on Fines, **G. RIVARD**, B. Chabot and C. Daneault, CIPP – UQTR, QC
- 15) Study of the Variation of the Fluting Amplitude of Uncoated SC Sheet Obtained with Different Types of Wetting Solutions, **M. ROUMANI** and F. Brouillette, CIPP – UQTR, QC
- 16) Mixing Evaluation in Pulp Stock Chests, **A. SOLTANZADEH**, G. Dumont and C. Bennington, UBC, BC
- 17) Adsorption of Polygalacturonic Acid on Modified Silica Powders, **R. VALLERAND**, C. Daneault and B. Chabot, CIPP – UQTR, QC
- 18) OBA Diffusion in High Yield Pulp Fibre Wall, **R. ZHANG** and Y. Ni, UNB/Limerick Pulp & Paper Centre, NB
- 19) On the Flow of a Fibre Suspension during Roll Forming, **H.G. JAHROMI**, J.A. Olson and M.D. Martinez, UBC, BC
- 20) Understanding of No-Load Power in Low Consistency Refining, **N. RAJABI NASAB**, J.A. Olson and M.D. Martinez, UBC, BC
- 21) Electrochemical Modification and Oxidation of Kraft Lignin, **M. TIAN**, D. MacDonald, J. Wen, A. Chen, Lakehead University, ON

## Supplier Showcase/La Vitrine des Fournisseurs

<i>Host/Organisateur:</i>	EXFOR & Sustaining Members Group/Groupe des membres de soutien & EXFOR
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### Room: Saint-Maurice

- 9:00** Recent advance in controlling troublesome extractives in mechanical pulp, **C. ROULEAU**, Buckman Laboratories of Canada Ltd., QC
- 9:10** Evolution in Market Pulp Packaging, **L. IRVINE**, Gerrard-Ovalstrapping, BC
- 9:20** APEXX - A new generation of forming fabric, **P. BRUNET**, Weavexx Corporation, QC and O. Baumann, Xerium Technologies, Germany
- 9:30** A customized VIRWITE® bleaching agent helps to reduce mill corrosion, **M. DAUPHINAIS** and I. Dumont, ChemTrade Logistics Inc., QC and S. Beaudoin, Kruger-Wayagamack inc., QC
- 9:40** Heat Recovery from Smelt Dissolving Tank Vent to Reduce Oil Consumption in Kraft Pulp Mills, **M. FRANCOEUR**, Thermal Energy International Inc., ON
- 9:50** New Technique: Excavating with Air & Water-Non-Destructive Excavation of Buried Pipes/Gas Lines/Fibre Optics, **S. HUZA**, Drain-All Ltd., ON
- 10:00** New Series of Protection Relays from Rockwell Automation, **J.A. KAY**, Rockwell Automation, ON
- 10:10** The use of Cedesorb® as part of an Effective Deposit Control Program to Improve Machine Performance, **S. LAFRENIÈRE**, CIBA Spécialités Chimiques Canada inc., QC
- 10:20** Advanced Bleaching Solution, **M. MASUDY** and I. Markevitch, Honeywell Inc., BC
- 10:30** OpTiSurf - A New Imaging Method for Measuring Surface Roughness of Tissue, Paper and Board, **R.J. TREPANIER**, OpTest Equipment Inc., ON
- 10:40** Recent advance in creping aid technology SELECT PACKAGE, **V. ROY**, Buckman Laboratories of Canada, QC
- 10:50** iRoll - Intelligent Roll for Paper Machines, **M. TUOMISTO**, Metso Paper USA, Inc., USA
- 11:00** Roll Tracking Systems on Industry-Standard Platforms, **A. WONG**, Wrapmation Inc., QC
- 11:10** Carbon Dioxide based Applications for Optimization of Calcium Carbonate Containing Papermaking Processes, **A. JANSSEN**, Linde AG, Germany
- 11:00** Real-time costing for the pulp and paper industry. Make smarter decisions and become more profitable, **J. PIGOTT**, TietoEnator Canada Inc., BC
- 11:30** Latest Technology in Roll Balancing (Control of the Whip) **M. JULIEN**, Canmec La Baie inc, QC

**Electrical/Instrumentation Engineering and Maintenance  
Génie électrique/instrumentation et entretien**

<i>Host/Organisateur:</i>	Electrical/Instrumentation Engineering and Maintenance Committee/Comité du génie électrique, de l'instrumentation et de l'entretien
<i>Moderator/Moderateur:</i>	R. Matchett, C.E.T., Cook Engineering, ON

**Room: Matapedia**

- 13:00** Domtar Espanola Reliability Case Study: How asset health data has been centralized for early potential failure visibility and avoidance, **G.B. CLACKETT**, Domtar Inc., ON and **D. FITZGERALD**, Ivara Corporation, ON
- 13:30** Best Practices for Monitoring your PID Loops - The Key to Optimizing Your Control Assets, C. McNabb, Matrikon Inc., AB and **M. RUEL**, Top Control inc., QC
- 14:00** Management Briefings on Energy Savings, **P. NOLL**, Peerless/LaBour/Taber Pumps, USA

**Environment/Environnement**

<i>Host/Organisateur:</i>	Environment Committee/Comité de l'environnement
<i>Moderator/Moderateur:</i>	T. Mahmood, FPInnovations, Paprican Division, QC
<i>Award Presentation/ Remise de prix</i>	Douglas Jones Award Environmental Award <i>Prix Douglas Jones prix d'environnement</i>

**Room: Harricana**

- 13:00** Nutrient Optimization for Pulp & Paper Wastewater Treatment Plants - An Opportunity for Major Cost Savings **R. KENNY**, Ray Kenny Environmental Consulting Inc., ON
- 13:30** A Survey of Pulp and Paper Mills: Operating Conditions and Effluent Quality in Relation to Fish Reproduction, **T.G. KOVACS**, P.H. Martel and B. O'Connor, FPInnovations, Paprican Division, QC
- 14:00** The use of Paper Mill Biotreatment Residue as Furnish or as a Bonding Agent in the Manufacture of Fibre-Based Boards, **A. ZERHOUNI**, UQAT, QC, T. Mahmood, FPInnovations, Paprican Division, QC and A. Koubaa, UQAT, QC
- 14:30:** A Life Cycle Management Methodology and its Application to a Newsprint Mill **C. GAUDREAU**, NCASI, QC, R. Samson and P. Stuart École Polytechnique de Montréal, QC
- 15:00** Recycle of the Oxygen Delignification Filtrate to the Recovery Cycle at Acid Sulphite Mills: Technical Feasibility, N. Jemaa, M. Paleologou, **A. THIBAUT** and J. Sullivan, FPInnovations-Paprican Division, QC and L. Beaudoin, Hydro-Québec, QC

**Fine & Coated Papers  
Papiers fins et couchés**

<i>Host/Organisateur:</i>	Fine and Coated Papers Committee/Comité des papiers fins et couchés
<i>Moderator/Moderateur:</i>	D.R. Jones, Buckman Laboratories of Canada Ltd., ON

**Room: Chaudière**

- 13:00** Combination of optical brightening agents and carrier substances in coating formulations, **D. ECKERT** and H. Grossman, University of Dresden, Dresden, Germany
- 13:30** Cost Saving Concepts for Production of High Quality Coated Papers - Part 1: Single Blade and Film Coat - Blade Coating Systems, G. Welsch, The Dow Chemical Company, USA, **D. VENTRESCA**, Dow Chemical Canada Inc., ON, G. Bluvol and P. Dahlvik, Omya, Switzerland and A. Hipp and P. Salminen, Dow Europe S.A., Switzerland
- 14:00** Precoat effect on the final printability - Part 1: Coating structure analysis with mercury intrusion-managing the data, **D. MATTE**, CIC Inc., QC, P. Mangin and C. Daneault, UQTR/CIPP, QC
- 14:30** Is your paper dull?  
**M.P. WILD**, EKA Chemicals, Inc, USA
- 15:00** Impact of the complex deposition of modified chitosan and carboxymethyl cellulose on paper properties, **P. FATEHI** and H. Xiao, UNB/Limerick Pulp & Paper Centre, NB and R. Kitterakun, Chulaongkorn University, Thailand
- 15:30** Neutral pH conversion in mechanical grades - fine balance of chemical and mechanical contributions, **P. PRUSZYNSKI**, C. Smith and P. Sturtevant, Nalco Company, USA.

**Paper Machine Technology II-From Press to Winder  
Technologie de la machine à papier II –De la presse à la bobineuse**

<i>Host/Organisateur:</i>	Paper Machine Technology Committee/Comité technologique de la machine à papier
<i>Moderator/Moderateur:</i>	I. Lang, AstenJohnson, Kanata, ON Canada

**Room: Richelieu**

- 13:00** Extending the Press Section Lifetime Through a Mini Shoe Press Rebuild, **D. LIARD**, Metso, QC and T. Pirinen, J. Onnela and J. Snellman, Metso Paper, Inc., Finland
- 13:30** Continuous Nip Profiling, **E. GUSTAFSON**, Stowe Woodward R & PE, USA
- 14:00** The Efficiency of Softwood Kraft Pulps in Improving Paper Machine Runnability **I.I. PIKULIK**, X. Hua, and N. Gurnagul, FPInnovations, Paprican Division, QC
- 14:30** How to Avoid Crepe Wrinkles at the Reel, **W. KAIPF**, Voith Paper GmbH & Co. KG, Germany
- 15:00** A New Method for Quantifying the Z-Direction Distribution of P200 Fines, F. Forel, **J. ORCCOTOMA** and J. Bates, FPInnovations, QC

Canadian Pulp and Paper Graduate Student Seminars

Sponsor/Organisateur: PAPIER - Canadian Pulp and Paper Network for Innovation in Education and Research/Réseau canadien de pâtes et papiers pour l'innovation en éducation et en recherche

Morning/Avant-midi

Room: Duluth

- 8:40** A Fundamental Study of Lime Mud Filer Performance,  
**F. AZGOMI**, R. Farnood and H. Tran, University of Toronto, ON
- 9:00** Modeling of the Activated Sludge Treatment Process for the Integration of Biorefining Processes into a Pulp and Paper Mill,  
**J.M. BRAULT**, Y. Comeau, M. Perrier and P. Stuart, École Polytechnique, QC
- 9:20** Thermal Transitions of Pitch-soap Deposits by Differential Scanning Calorimetry (DSC),  
**Z. DAI** and Y. Ni, UNB/Limerick Pulp & Paper Centre, NB
- 9:40** Modeling the Performance of Sootblowers in Kraft Recovery Boilers  
**B. EMAMI**, M. Bussmann and H. Tran, University of Toronto, ON
- 10:00** Diffusion of Cationic PVA Polymers into the Pores of Cellulose Fiber,  
**P. FATEHI** and H. Xiao, UNB/Limerick Pulp & Paper Centre, NB
- 10:20** Effect of Tempo-mediated Oxidation of Kraft Pulp on Strength Properties of Papers Containing Fillers,  
**R. GUIMOND**, B. Chabot and C. Daneault, CIPP – UQTR, QC
- 10:40** Cellulose-phage Interactions, **Z. HOSSEINIDOUST**, N. Tufenkji and T. Van De Ven, McGill University, QC
- 11:00** Cellulosic Nanofibres - Electrospinning of Novel Cellulose Gels,  
**R. KOREHEI** and J.F. Kadla, UBC, BC
- 11:20** Understanding Low Consistency Refining of Mechanical Pulps,  
**A. LUUKKONEN**, J. Olson and D.M. Martinez, UBC, BC
- 11:40** Dust Formation in Lime Kiln - Numerical Modeling,  
**M. MIE** and H. Tran, University of Toronto, ON
- 11:40** Physicochemical Characterizations of Primary and Secondary Sludge from three Papermaking Processes,

LUNCH / PAUSE

Afternoon / Après-midi

- 13:30** Physicochemical Characterizations of Primary and Secondary Sludge from three Papermaking Processes,  
**H. NADJI**, S. Migneault, S. Xing and B. Riedl, Centre de recherche sur le bois, QC, J. Deng and T. Zhang, FPInnovations-Forintek, QC, A. Koubaa, UQAT, QC
- 13:50** Conversion of Pulp Mill Sludge into Activated Carbon,  
**A. NAMAZI**, C.Q. Jia and D. Allen, University of Toronto, ON
- 14:10** Reduction of the Environmental Impact of Paper Rejects in Offset Printing. Part II: Evaluation of Lint Control Additives,  
**W. OSSAVU**, F. Brouillette and C. Daneault, CIPP – UQTR, QC
- 14:30** The Extraction of Extracellular Polymeric Substances (EPS) from Paper Mill Sludge as a Precursor of Wood Adhesive,  
**M. PERVAIZ** and M. Sain, University of Toronto, ON
- 14:50** A New Decision Tool using MMPC for the Production Line Evolution – from Concept to Implementation,  
**M. PINARD** and L. Laperrière, CIPP – UQTR, QC
- 15:10** Use of Nanofillers as Reinforcing Agents for Biobased Composite Fibres,  
**W. QIN** and J.F. Kadla, UBC, BC
- 15:30** Three-Dimensional Flow Fields Analysis Through Forming Fabrics,  
**A. VAKIL**, A. Olyaei and S. Green, UBC, BC
- 15:50** Bacteria Deactivation by Block Copolymer Micelles Loaded with Bactericidal Material,  
**R. VYHNALKOVA**, A. Eisenberg and T. Van De Ven, McGill University, QC
- 16:10** Characterization of Two Novel Esterases from Streptomyces avermitilis and Rhodospseudomonas palustris,  
**L. WANG** and E. Master, University of Toronto, ON

# Registration Form – EXFOR<sup>®</sup> and Annual Meeting 2009

Deadline: January 23, 2009 (after this date please register on site)

Fairmont Queen Elizabeth Hotel – Montréal, Québec, Canada

February 3– 4, 2009

**DELEGATE REGISTRATION**       Mr.       Mrs.       Ms.       Dr.

First Name \_\_\_\_\_ Last Name \_\_\_\_\_ Title \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ Province / State \_\_\_\_\_

Postal Code / Zip \_\_\_\_\_ Country \_\_\_\_\_ Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Membership Number T- \_\_\_\_\_ E-mail \_\_\_\_\_

REGISTRATION FEES \$ CAN	MEMBER	AFTER JAN. 23	NON-MEMBER	AFTER JAN 23
<input type="radio"/> Delegate 95th Annual Meeting (access to all sessions & tradeshow)	350.00	450.00	600.00	700.00
<input type="radio"/> Official Representative PAPTAC Sustaining Member Corporate Member Honorary Member 95th Annual Meeting (access to all sessions & tradeshow)	0.00	0.00	-----	-----
<input type="radio"/> Presenters/Moderators PAPTAC Retired Member 95th Annual Meeting (access to all sessions & tradeshow)	225.00	3.25.00	-----	-----
<input type="radio"/> Student 95th Annual Meeting (access to all sessions & tradeshow)	75.00	100.00	125.00	150.00
<input type="radio"/> Emeritus Member 95th Annual Meeting (access to all sessions & tradeshow)	100.00	125.00	-----	-----
<input type="radio"/> Honorary Life Member 95th Annual Meeting (access to all sessions & tradeshow)	50.00	50.00	-----	-----
<input type="radio"/> EXFOR® 2 DAYS (tradeshow only)	40.00	40.00	40.00	40.00
<input type="radio"/> EXFOR® 1 DAY (tradeshow only) <input type="radio"/> TUESDAY <input type="radio"/> WEDNESDAY	25.00	25.00	25.00	25.00

**PAYMENT METHOD**

Cheque payable to PAPTAC (address at the bottom of the page)

VISA     MasterCard     AmEx

Card Number \_\_\_\_\_

Expiry Date \_\_\_\_\_

Cardholder Signature : \_\_\_\_\_

DIRECT DEPOSIT/WIRE TRANSFERS CAN BE MADE TO:  
 Royal Bank of Canada, 360 St. Jacques West, Montreal, Quebec, Canada H2Y 1P6  
 (Branch # 05341 Transit #003) Account # 1017664 (CAD); Account # 4004925 (US)  
 Overseas bank drafts must be drawn on a major Canadian Bank and must include the information mentioned above. \*\* \$ 10.00 CAD must be added to wire transfers.

**IMPORTANT**  
**Registration fees include all taxes**  
**GST # 142632231    QST # 1021680725**  
 Registration fees included access to the Tuesday reception and/or the Wednesday lunch

**Notes** An official receipt will be provided on-site

**Cancellation Policy**  
 A full refund will be made if notice of cancellation is received by January 12, 2009. If notification is received after this date, 25% of the registration fee will be retained. There will be no refund if we are notified after January 23, 2009.

 **PULP AND PAPER TECHNICAL ASSOCIATION OF CANADA**  
**740 Notre-Dame West, Suite 1070 Montréal, Québec, Canada H3C 3X6**  
**Tel.: 514-392-0265 • Fax: 514-392-0369 • E-mail: aborrelli@paptac.ca**

# Formulaire d'inscription – EXFOR® et le Congrès annuel 2009

Date limite : 23 janvier 2009 (Veuillez vous inscrire sur place, après cette date)

Hôtel Fairmont Le Reine Élisabeth – Montréal, Québec, Canada

3 au 4 février 2009

## INSCRIPTION DU DÉLÉGUÉ

M.

Mme

Mlle

Dr.

Prénom \_\_\_\_\_ Nom de famille \_\_\_\_\_ Titre \_\_\_\_\_ Compagnie \_\_\_\_\_

Adresse \_\_\_\_\_ Ville \_\_\_\_\_ Province \_\_\_\_\_ Code postal \_\_\_\_\_

Pays \_\_\_\_\_ Téléphone \_\_\_\_\_ Télécopieur \_\_\_\_\_

Numéro de membre T- \_\_\_\_\_ Courriel \_\_\_\_\_

FRAIS D'INSCRIPTION \$ CAN	MEMBRE	APRÈS 23 JAN	NON-MEMBRE	APRÈS 23 JAN
<input type="radio"/> Délégué 95e Congrès annuel (accès à toutes les sessions et au salon)	350.00	450.00	600.00	700.00
<input type="radio"/> Représentant officiel – membre de soutien de l'ATPPC Membre corporatif Membre honoraire de l'ATPPC 95e Congrès annuel (accès à toutes les sessions et au salon)	0.00	0.00	-----	-----
<input type="radio"/> Conférenciers/Modérateurs Membre retraité 95e Congrès annuel (accès à toutes les sessions et au salon)	225.00	325.00	-----	-----
<input type="radio"/> Étudiant 95e Congrès annuel (accès à toutes les sessions et au salon)	75.00	100.00	125.00	150.00
<input type="radio"/> Membre Émérite 95e Congrès annuel (accès à toutes les sessions et au salon)	100.00	125.00	-----	-----
<input type="radio"/> Membre - Honoraire à vie de l'ATPPC 95e Congrès annuel (accès à toutes les sessions et au salon)	50.00	50.00	-----	-----
<input type="radio"/> EXFOR® 2 JOURS (accès au salon seulement)	40.00	40.00	40.00	40.00
<input type="radio"/> EXFOR® 1 JOUR (accès au salon seulement) <input type="radio"/> MAR <input type="radio"/> MER	25.00	25.00	25.00	25.00

## MÉTHODE DE PAIEMENT

Chèque au nom de l'ATPPC (adresse au bas de la page)

VISA  MasterCard  AmEx

Numéro de carte \_\_\_\_\_

Date d'expiration \_\_\_\_\_

Signature du détenteur : \_\_\_\_\_

Des dépôts ou des transferts bancaires peuvent étre faits à l'ordre de:

Banque Royale du Canada, 360 rue St. Jacques Ouest, Montreal, Quebec, Canada H2Y 1P6

(Succ # 05341 Transit #003) Compte # 1017664 (CAD); Compte # 4004925 (US)

Les traits de banques étrangères doivent étre tirée dur une grande banque canadienne et inclure l'information ci-dessus. \*\*Un montant de 10,00 \$ can. doit étre ajouté aux transferts bancaires

## IMPORTANT

Les frais d'inscription comprennent les taxes.

TPS # 142632231 TVQ # 1021680725

Les frais d'inscription comprennent l'accès à la réception mardi et/ou le dîner mercredi

Notes- Reçu officiel remis sur place

### Politique d'annulation

Un remboursement complet sera attribué si nous sommes avisés au plus tard le 12 janvier 2009.

Après cette date, 25% des frais d'inscription seront retenus. Aucun remboursement après le 23 janvier 2009.



ASSOCIATION TECHNIQUE DES PÂTES ET PAPIERS DU CANADA

740 Notre-Dame Ouest, bureau 1070 Montréal, Québec, Canada H3C 3X6

Tél. : 514-392-0265 • Télécopieur : 514-392-0369 • aborrelli@paptac.ca