

The 8th Research Forum on Recycling will continue its history of highlighting cutting-edge research results from around the world. This year's event offers extraordinary opportunities for professional development and personal growth:

- Get the latest updates on recycling research
- Discuss and debate technical and operating issues
- Learn and network with experts and peers
- Identify future research needs of the recycling community.

Esteemed engineers, scientists, and practitioners will lead more than 35 cutting-edge presentations on all aspects of recycling technologies and operations for raw materials—with topics ranging from newsprint to mixed office waste.

SESSION 1 - Panel Discussion: Paper Recovery and Challenges Around the World

Session Chair: Danny Haynes, Eka Chemicals, Ltd.

- Challenges to increase recycled material recovery
- Challenges to decrease contaminants

Participants*:

Kunitaka Toyofuku, Executive Director
JAPAN TAPPI

Dr. Ulrich Höke, Mill Manager of Stora Enso Sachsen Mill in Eilenburg
Chairman of the INGEDE Board

Robert Tucker, Director of Recovered Paper
Bowater

**subject to change*

SESSION 11 - Panel Discussion: Research Needs and Issues

Session Chair: Giles Dorris, PAPRICAN

Hear industry leaders from around the world present their thoughts on industry research needs in recycling, reflect on the work presented during the conference and how it can help meet the needs of the industry.

Participants*:

Shisei Goto, Nippon Paper

Gérard Galland, Centre Technique du Papier

Mahendra Doshi, Progress in Paper Recycling

**subject to change*

Plant Tours

Enjoy two behind-the-scene tours and see these two plants in action:

Thursday, 27 September 2007

Morning Tour: Mill Tour of Recycle Plant-Thorold, Ontario, Canada at the Abitibi-Consolidated recycle plant*

Afternoon Tour: Tour of Recovered Fiber Sorting Facility- Single stream sorting facility in Toronto*

**subject to change*

Choose the plant that suits your interests. Transportation is provided, but you must pre-register to participate. Space is limited, so register early! (See registration form for pricing.)

Dinner at "Oh Canada, Eh?"

A night away from the hotel and an entertaining dinner presentation. Relax, mix with fellow attendees and enjoy some local humor. Offered at no charge to full paid conference participants. (Single-day speaker registrants, spouses and guests can attend for a nominal fee. See registration form for pricing.)



Table Top Displays of Products and Services

An opportunity to see the latest products and services first hand while meeting face-to-face with suppliers. Table Top Displays offer an opportunity to compare products and technologies side-by-side, ask questions and learn how new products can help you be more efficient, productive and cost-effective.

Sponsorship Opportunities Still Available

Conference participants will be looking for the latest technology and new product introductions. Make sure your company is there to help them. Sponsorship puts your company front and center:

- Reach the top recycling experts in the field
- Network with colleagues, peers and customers
- Create awareness for your products and services

For information about Table Top Displays and Sponsorship, contact Tammi Campbell at +1-770-209-7405 or tcampbell@tappi.org—or simply visit www.tappi.org/07RECYCLE.

Sunday, 23 September 2007

Management and Control of Stickies Workshop

Led by **Mahendra Doshi**, *Progress in Paper Recycling* (separate registration required, see registration form for details)

Monday, 24 September 2007

Program Chair: **John Cameron**, *Western Michigan University*

Wecome Address

Conference Chair: **Danny Haynes**, *Eka Chemicals, Ltd.*

Session 1: Panel Discussion: Paper Recovery and Challenges Around the World

Session Chair: **Danny Haynes**, *See Program Highlights for session details*

Session 2: Paper Recovery and Quality

Session Chair: **Bruno Carré**, *Centre Technique du Papier*

The Limits of Paper Recycling - An European Approach to Identify and Extend the Limits of Paper Recycling in Europe, **Harald Grossmann**, *Technische Universität Dresden*

Recyclability of Graphic Paper Products, **Hans-Joachim Putz**, *PMV-TU Darmstadt*

The New Techpap NIR Spectroscopy for Recycled Bale Inspection, **Didier Rech**, *Techpap*

Recovered Paper Yield Estimate Using Laboratory and Mill Accounting Data, **Robert DeJong**, *2 Fiber Consulting*

Session 3: Old Corrugated Containers and Related Issues

Session Chair: **Joe Cable**, *Buckman Laboratories Inc.*

EcoFracSmart: A New Stock Preparation Process for Testliner, **Karl Johan Grundström** and **Marco Lucisano**, *STFI-Packforsk AB*

Enzymatic Strength Development in OCC, **Rosy Corarrubias** and **Daniel Glover**, *Buckman Laboratories*
Eliminating a Common OCC "Stickies" Problem, **Matt Blazey**, *CIBA Specialty Chemicals*

Session 4: Improving Unit Operations

Session Chair: **Terry Bliss**, *Hercules, Inc.*

Superior Tools for Adjustable Screening Process, **Minna Puro**, *Metso Paper*

High Performance Foil Rotor Improves De-Ink Pulp Screening, **Cameron Pflueger**, *Advanced Fiber Technologies (AFT)*

High-Speed Dispersing Between Two Deinking Loops: Are There Optimisation Possibilities, **Bruno Carré** and **Benjamin Fabry**, *Centre Technique Du Papier*

Tuesday, 25 September 2007

Session 5: Flotation Equipment

Session Chair: **Garnet Bremner**, *Nalco*

Analysis of Ink Elimination in Flotator, **Junsuke Kawana**, *Oji Paper Co., Ltd.*

First Flotation Column in a Paperboard Recycling Plant, **Yuxia Ben**, *PAPRICAN*

Interaction of Flotation Cell Operating Variables, **Henry Peters**, *Abitibi-Consolidated Co.*

Session 6: Deinking I

Session Chair: **Aanon Røring**, *Norske Skog*

Natural Surfactants in Paper Recycling, **Richard Venditti**, *North Carolina State University*

A Comparison Between NaOH, Mg(OH)₂ and Na₂SO₃ in the Deinking of ONP / OMG, **Michel Dubreuil**, *Arkema Inc.*

Component Removal in Sequential Deinking Flotation, **Mika Körkkö**, *University of Oulu*

Investigation on the Behaviour of Undesirable Constituents, **Antje Kersten**, *Darmstadt University of Technology*

Session 7: Deinking II

Session Chair: **Yves Dionne**, *Bowater*

Assessment of Deinking Chemistry Performance: From Laboratory Tests to the Simulation of an Industrial Pre-Flotation Line, **Davide Beneventi**, *Ecole Francaise De Papeterie Et Des Inc.*

Ink Detachment, Fragmentation and Alkali Darkening During Pulping of ONP:OMG Part II: Effects of Sodium Sulphite, **Luc Lapierre**, *PAPRICAN*

Laboratory Study to Evaluate Methods for Deinking Flexographic Newsprint, **Akpojotor Shemi**, *Georgia Institute of Technology*

Session 8: Stickies Analysis

Session Chair: **Hans-Joachim Putz**, *PMV-TU Darmstadt*

A New Method for Measuring Deposition of Microstickies Using QCM-D Technique, **Shisei Goto**, *Nippon Paper Industries Co. Ltd.*

Assessment of Methods for the Measurement of Macrostickies in Recycled Pulps, **Bruce Sitholé**, *PAPRICAN*

Properties of Water-borne Pressures Sensitive Adhesive Films During Recycling Operations, **Carl Houtman**, *USDA Forest Products Lab*

An Headspace Gas Chromatographic Technique for Measuring Microstickies in Recycling Mill White Water, **Junyong Zhu**, *USDA Forest Products Lab*

Wednesday, 26 September 2007

Session 9: Analysis Development

Session Chair: **Shisei Goto**, Nippon Paper Industries Co. Ltd.

An AFM Study of the Surface Properties of Fiber Upon Progressive Recycling, **Adam Brancato**, IPST at Georgia Institute of Technology

New Approach to Measurement of Effective Residual Ink Concentration of Deinked Papers, **Carl Houtman**, USDA Forest Products Lab

Analysis of Pulp Components in a DIP Process with Tube Flow Fractionation, **Ossi Laitinen**, University of Oulu

Session 10: Fiber and Fines Quality

Session Chair: **John Cameron**, Western Michigan University

LbL Nanocoating for Fiber Recycling - Improved Paper Recycling Through Fiber Polycation/Polyanion Multilayer Nanocoating, **George Grozdits**, Louisiana Technical University, School of Forestry

Fine Particles Separation in Recovered Paper Suspensions, **Jörg Wagner**, Darmstadt University of Technology, PMV

Session 11: Panel Discussion: Research Needs and Issues

Session Chair: **Giles Dorris**, PAPRICAN

See Program Highlights for session details

Session 12: Bleaching

Session Chair: **Carl Houtman**, USDA Forest Products Lab

Comparison of DIP Bleachability Between Traditional Soap and Reduced Alkaline Chemistries, **Jouko Niinimäki**, University of Oulu

Improving Deinked Pulp Quality by Oxidation with TEMPO, **Julie Leroux**, CIPP/Univ. Quebec Trois-Rivieres

TAED Activator for Peroxide Bleaching of Recycled Pulp, **Jeffery Hsieh**, Georgia Institute of Technology

Session 13: Recycle Fiber at the Paper Machine

Session Chair: **Yuxia Ben**, PAPRICAN

Flotation Column: A Process Unit for Cleaning Up Papermachine Whitewater Circuits, **Yves Dionne**, Bowater

Effect of High Temperature Drying of Recycled Paper on Heat Transfer Rates and Sheet Properties, **Dania Alsaïd**, Western Michigan University

Using The Measurement of Colloidal Organics To Relate To Paper Machine Runnability, **Danny Haynes**, Eka Chemicals, Ltd.

Thursday, 27 September 2007

Morning Tour: Mill Tour of Recycle Plant-Thorold, Ontario, Canada at the Abitibi-Consolidated recycle plant*

Afternoon Tour: Tour of Recovered Fiber Sorting Facility-Single stream sorting facility in Toronto*

*subject to change

Choose the plant that suits your interests. Transportation is provided, but you must pre-register to participate. Space is limited, so register early! (See registration form for pricing.)

SCHEDULE AT A GLANCE

Sunday, 23 September 2007

12:00 – 18:30	Registration Open
12:30 – 15:30	Management and Control of Stickies Workshop*
15:30 – 16:30	TAPPI Recycling Committee Meeting**
16:30 – 18:30	PAPTAC Recycling Committee Meeting**

Monday, 24 September 2007

07:00 – 19:00	Registration Open
07:00 – 08:00	Speaker Breakfast
07:00	Table Top Display Set-up
08:00 – 08:15	Welcome Address
08:15 – 09:30	Session 1: Panel Discussion: Paper Recovery and Challenges Around the World
09:30 – 10:00	Break
10:00 – 12:00	Session 2: Paper Recovery and Quality
12:00 – 13:30	Lunch on own
13:30 – 15:00	Session 3: Old Corrugated Containers and Related Issues
15:00 – 15:30	Break
15:30 – 17:00	Session 4: Improving Unit Operations
18:30 – 19:30	Welcoming and Table Top Display Reception

Tuesday, 25 September 2007

07:00 – 17:00	Registration Open
07:00 – 08:00	Speaker Breakfast
08:00 – 09:30	Session 5: Flotation Equipment
09:30 – 10:00	Break
10:00 – 12:00	Session 6: Deinking I
12:00 – 13:30	Lunch on own
13:30 – 15:00	Session 7: Deinking II
15:00 – 15:30	Break
15:30 – 17:30	Session 8: Stickies Analysis
18:00	Buses depart to Dinner at "Oh Canada, Eh?" venue

Wednesday, 26 September 2007

07:00 – 17:00	Registration Open
07:00 – 08:00	Speaker Breakfast
08:00 – 09:30	Session 9: Analysis Development
09:30 – 10:00	Break
10:00 – 11:00	Session 10: Fiber and Fines Quality
11:00 – 11:15	Break
11:15 – 12:15	Session 11: Panel Discussion: Research Needs and Issues
12:15 – 13:30	Lunch on own
13:30 – 15:00	Session 12: Bleaching
15:00 – 15:30	Break
15:30 – 17:00	Session 13: Recycle Fiber at the Paper Machine
17:00	Table Top Display Tear Down

Thursday, 27 September 2007

Morning	Mill Tour of Recycle Plant
Afternoon	Tour of Recovered Fiber Sorting Facility (expect tour to end by 17:00)

*separate registration required, see registration form for details

**open to all conference attendees