

Monday morning, May 12, 2008

7:00 a.m. – 5:00 p.m. – Registration

7:00 a.m. - 10:00 a.m. - Exhibitor set-up (and Sunday, May 11 from 8:30 p.m. - 11:00 p.m.)

8:00 a.m. – 8:30 a.m. – Complimentary Continental Breakfast

OPENING PLENARY SESSION

Ambrosia Room

- 8:30 **Opening Remarks**
John Balatinecz, Emeritus Professor, University of Toronto, ON, Canada - Conference Co-Chair
Mohini Sain, University of Toronto, ON, Canada - Conference Co-Chair
- 8:35 **Welcome**
The Honourable John Wilkinson, Minister of Research and Innovation, ON, Canada
- 8:45 **Introduction by Session Moderator**
Geoff Clarke, GreenCore Composites Inc., ON, Canada
- 8:50 ***The Automobile – Back to the Future with Wood and Fibre***
Gerry Fedchun, Automotive Parts Manufacturers' Association, ON, Canada
- 9:25 ***The Tipping Point for New WPC's***
Paul M. Smith, Penn State University, PA, USA
- 10:00 Coffee Break
Suppliers' Showcase (Prefunction Space and Muskoka Room) and Poster Session (Algonquin Room)
- 10:15 ***Research and Application of Cellulose Nanofibre Reinforced Composites***
Hiroyuki Yano, Kyoto University, Kyoto, Japan
- 10:50 ***Opportunities and Challenges Facing the WPC Industry in Tough Economic Times***
Jim Morton, Principia Partners, PA, USA
- 11:25 Discussion & wrap-up

11:45 a.m. – 1:25 p.m. – Complimentary Luncheon

Suppliers' Showcase (Muskoka Room) & Poster Session (Algonquin Room)

Monday afternoon, May 12, 2008 – Concurrent Sessions

SESSION 1A: MATERIALS – Ambrosia 1&2 Room

- 1:25 **Introduction by Session Moderator**
Caroline Baillie, Queens University, ON, Canada
- 1:30 **Characterization of Wood/polymer Inter-phase**
Lech Muszynski, Oregon State University, OR, USA
- 1:55 **Characterization of Ontario Crop Biofibers**
Leonardo Simon, University of Waterloo, ON, Canada
- 2:20 **A Novel Filler for Natural Fiber Polymer Composites from Cotton Gin Waste**
Dilpreet Bajwa, Greenland Composites Inc., AR, USA
- 2:45 Coffee Break
Suppliers' Showcase (Prefunction Space and Muskoka Room) and Poster Session (Algonquin Room)
- 3:15 **Interactions of Lubricants and Coupling Agents in Wood-polymer Composites**
Sassan Hojabr, E. I. du Pont Canada Company, ON, Canada
- 3:40 **Testing of Unique Coupling Agents and Processing Aids in Wood Plastic Composites**
William Dougherty, Sartomer Company, Inc., PA, USA
- 4:05 **Bio-Composite Rigid PVC: Natural Fiber Reinforcement; Improving Cost and Performance for “Greener” Building Products**
Ed Schut, CreaFill Fibers, MD, USA
- 4:30 **Effect of Coupling Agent and Fibre Length on the Mechanical Behaviour of Hemp Reinforced Polyethylene**
Matthew Hopkins, Alberta Research Council, AB, Canada
- 4:55 Discussion and wrap-up

SESSION 1B: FORMULATIONS AND PROCESSING 1 – Ambrosia 3&4 Room

- 1:25 **Introduction by Session Moderator**
Doug Gardner, University of Maine, ME, USA
- 1:30 **Resin Replacement System**
Ed Myszak, PQ Corporation, PA, US
- 1:55 **Assessment of Resin Compatibility with Flax Fibers for Thermoset Infusion Composite Applications**
Alastair Komus, Composites Innovation Centre Manitoba, Inc., MB, Canada
- 2:20 **Application of Corona Discharge Treatment on Hybrid Wood-Plastic Composite (WPC) – Fiber Reinforced Plastic**
Gloria Oporto, Universidad de Concepción, Concepción, Chile
- 2:45 Coffee Break
Suppliers' Showcase (Prefunction Space and Muskoka Room) and Poster Session (Algonquin Room)
- 3:15 **High Aspect Ratio Fibre Reinforced Plastics Using Wood and Residue Fibers**
Jeremy Warnes, Scion, Rotorua, New Zealand
- 3:40 **Optimization of The Pelletization of Cellulose Fibers for Extrusion Applications**
Marie Le Baillif, Norwegian University of Science and Technology, Trondheim, Norway
- 4:05 **Results of Fiber Treatment on Polypropylene – Corn Fiber Composites**
Chad A. Ulven, North Dakota State University, ND, USA
- 4:30 **Study of Fibre Breakage in a Twin-screw Extruder: Effect of Processing Conditions and Fibre Morphology**
Carlos Quijano-Solis, University of Toronto, ON, Canada
- 4:55 Discussion and wrap-up

5:30 p.m. – 7:00 p.m. – Complimentary Reception, Poster Awards, Sponsor Recognition
Suppliers' Showcase (Muskoka Room) & Poster Session (Algonquin Room)
7:00 p.m. - complimentary shuttle to downtown Toronto

Tuesday morning, May 13, 2008 – Concurrent Sessions

SESSION 2A: STANDARDS, PERFORMANCE AND DURABILITY – Ambrosia 1&2

- 8:25 **Introduction by Session Moderator**
Craig Clemons, USDA Forest Products Laboratory, WI, USA
- 8:30 **European Approach to Standardization of Wood-Plastic Composites**
Gilles Labat, FCBA, Bordeaux, France
- 8:55 **Deck Structures and Safety – Are We There Yet?**
Robert J. Tichy, Washington State University, WA, USA
- 9:20 **WPC Durability and Results from the Field**
Mark Manning, Rio Tinto Minerals (U.S. Borax), CO, USA
- 9:45 **Fire Performance Properties of Deck Boards**
Thomas Z. Fabian, Underwriters Laboratories Inc., IL, USA
- 10:10 Coffee Break
**Suppliers' Showcase (Prefunction Space and Muskoka Room) and
Poster Session (Algonquin Room)**
- 10:35 **Exploratory Research on WPCs Exposed to A Wet, Non-Sterile Soil
Environment**
Rebecca E. Ibach, USDA Forest Products Laboratory, WI, USA
- 11:00 **Decay & Termite Resistance of Commercial Decking**
Peter E. Laks, Michigan Tech, MI, USA
- 11:25 **Water Absorption by WPC Field and Laboratory Challenges**
Marek Gnatowski, Polymer Engineering Co. Ltd, BC, Canada
- 11:50 Discussion and wrap-up

SESSION 2B: FORMULATIONS AND PROCESSING 2 – Ambrosia 3&4

- 8:25 **Introduction by Session Moderator**
Frank Maine, Frank Maine Consulting Ltd., ON, Canada
- 8:30 **Injection Molding and Mechanical Properties of Cellulose Fiber
Reinforced HDPE Composite Foams**
Chul Park, University of Toronto, ON, Canada
- 8:55 **Investigations on the Parameters Affecting the Properties of Sisal
Fiber Reinforced Composites**
Christoph Burgstaller, Transfercenter für Kunststofftechnik, Wels, Austria
- 9:20 **Impact of Processing Variables on Product Properties for Next
Generation of WPCs**
Brett Birchmeier, The Dow Chemical Company, MI, USA
- 9:45 **Rheological, Mechanical and Interfacial Adhesion Properties of
Regenerated Cellulose Fiber and Wood Fiber Filled Polypropylene
Compounds**
Kwang-Jea Kim, The University of Akron, OH, USA
- 10:10 Coffee Break
**Suppliers' Showcase (Prefunction Space and Muskoka Room) and
Poster Session (Algonquin Room)**
- 10:35 **Design and Engineering of Nanostructure Controlled Bioplastics: New
Opportunities in Green Materials Research**
Amar Mohanty, University of Guelph, ON, Canada/Michigan State
University, MI, USA
- 11:00 **Biofiber Reinforced Biodegradable Polymer Composites Through
Sandwich Injection Moulding**
Saswata Sahoo, Kyoto Institute of Technology, Kyoto, Japan
- 11:25 **The Effect of Fibre Orientation on the Modulus of Natural Fibre
Reinforced Composites**
Mark Kortschot, University of Toronto, ON, Canada
- 11:50 Discussion and wrap-up

12:15 p.m. – 1:25 p.m. – Complimentary Luncheon
Suppliers' Showcase (Muskoka Room) & Poster Session (Algonquin Room)

Tuesday afternoon, May 13, 2008 – Concurrent Sessions

SESSION 3A: APPLICATIONS AND NEW DEVELOPMENTS – Ambrosia 1&2 Room

- 1:30 **Introduction by Session Moderator**
Adrien Pilon, NRC Biotechnology Research Institute, QC, Canada
- 1:35 **Strategies for Improving the Viability of Foamed WPCs**
Jeffrey Cernohous, ALTERFORM, WI, USA
- 2:00 **New Technology for Protecting Composites Using UV-Curable Coatings**
Kelly Williams, InFin LLC, OH, USA
- 2:25 **Coloring Bioplastics**
Andy Hebert, Teknor Color Company, RI, USA
- 2:50 Coffee Break
Suppliers' Showcase (Prefunction Space and Muskoka Room) and Poster Session (Algonquin Room)
- 3:15 **Hierarchical Design as A Tool in Material Development**
Mikael Lindström, STFI-Packforsk AB, Stockholm, Sweden
(3:30 Exhibitor and Poster Tear-down)
- 3:40 **Novel Hybrid Green Composites from Polylactic Acid and Natural Fibers for Automotive Applications: Processing, Properties and Market Study**
Manju Misra, Michigan State University/University of Guelph, MI, USA/ON, Canada
- 4:05 **Developing Capacity in Low Income Cooperatives in Buenos Aires from Waste Plastic and Fibers.**
Caroline Baillie, Queen's University, ON, Canada
- 4:30 Discussion and wrap-up

SESSION 3B: FORMULATIONS AND PROCESSING 3 – Ambrosia 3&4 Room

- 1:30 **Introduction by Session Moderator**
Sean McKay, Composites Innovation Centre Manitoba, Inc., MB, Canada
- 1:35 **Processing and Rheology in HDPE/Wood Flour Composites**
Carlos Correa, Universidade São Francisco, Itatiba, SP / Brazil
- 2:00 **Material Properties of Wollastonite-Filled Polypropylene Wood-Plastic Composites**
Doug Gardner, University of Maine, ME, USA
- 2:25 **Mechanical Properties of Polymer Composites from Microcrystalline Cellulose and Polyethylene Terephthalate**
Alper Kiziltas, University of Maine, ME, USA
- 2:50 Coffee Break
Suppliers' Showcase (Prefunction Space and Muskoka Room) and Poster Session (Algonquin Room)
- 3:15 **Formulations and Processing of WPC and their Effect on Mechanical Properties and Durability of Composite Deck Boards**
Anatole Klyosov, MIR International, Inc., MA, USA
(3:30 Exhibitor and Poster Tear-down)
- 3:40 **Extrusion of PET/LDPE, PHB and PP blended with Natural Fibers for Profiles and Injection Molded Applications**
Alcides Leão, UNESP, Botucatu, Brazil
- 4:00 **The Effect of Chemically Coated Nanofiber Reinforcement on Biopolymer Composites**
Bei Wang, University of Toronto, ON, Canada
- 4:30 Discussion and wrap-up

Conference comes to a close. Thank you for attending and see you in 2010.