

| <b>Monday, May 26<sup>th</sup></b>  |  |
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| <b>Auditorium</b>                   |  |
| 14:00-18:00                         | <b>REGISTRATION</b>  |
| 18:00-19:00                         | <p><b><u>Opening Ceremony and Business Trends</u></b></p> <ul style="list-style-type: none"> <li>• Jorge L. Colodette, Workshop Chairman for Brazil, UFV – Brazil</li> <li>• Watson Loh, Workshop Co-chairman for Brazil, Unicamp – Brazil</li> <li>• Leonardo Simon, Workshop Chairman for Canada, University of Waterloo – Canada</li> <li>• Ronaldo Tadeu Pena, Director ANPROTEC – Brazil</li> <li>• Flávio Orlando Plentz, General Coordinator for Micro and Nanotechnologies, MCTI – Brazil</li> <li>• Arthur Carty, Executive Director, Waterloo Institute for Nanotechnology – Canada</li> <li>• Mário Neto Borges, President, FAPEMIG – Brazil</li> </ul> |
| 19:00-20:30                         | <p><b><u>KeyNote Lectures (Nano in Industry)</u></b></p> <p><b>Lecture I:</b><br/><b>Open Innovation on and Commercialization of biobased (nano) materials: the perspective of an entrepreneur</b><br/>John Van Leeuwen, CEO, EcoSynthetix Inc. – Canada</p> <p><b>Lecture II:</b><br/><b>Commercializing Sustainable Nanomaterials in the Paper Industry</b><br/>Chuck Klass, on behalf of Suzano Papel e Celulose S/A - Klass Associates Inc. – Brazil</p>   |
| 20:30-23:00                         | <b>WELCOME COCKTAIL</b>  |
| <b>Tuesday, May 27<sup>th</sup></b> |  |
| <b>Auditorium</b>                   |  |
| 08:00-10:00                         | <p><b><u>SESSION ONE: PRODUCTION OF BIOBASED NANOPRODUCTS</u></b><br/><b>Chairperson:</b> Francisco C. Razzolini, Klabin – Brazil</p>  |
| 08:00                               | <p><b>Session Keynote:</b><br/><b>Tech Futures CNC Pilot Plant: Towards Industrial Applications, Development &amp; Technology Transfer</b><br/>Dr. Behzad Ahvazi, Alberta Innovates – NCC Pilot Plant - Canada</p>   |
| 08:45                               | <p><b>Production and characterization of new hybrid bio-based nanocrystals, from cellulose and chitosan</b><br/>Wilson Pires Flauzino Neto, UFU – Brazil ; Hudson Alves Silvério, UFU – Brazil; Ingrid Souza Vieira da Silva, UFU – Brazil; <b>Daniel Pasquini</b>, UFU – Brazil</p>   |
| 09:10                               | <p><b>Nanotechnology applied to forest sector: some researches at Embrapa Forestry</b><br/><b>Washington Luiz Esteves Magalhães</b>, Embrapa Florestas – Brazil ; Pedro Henrique Gonzalez de Cademartori, UFPR – Brazil; Graciela Inês Bolzon de Muniz, UFPR – Brazil; Mayara Elita Carneiro, UFPR – Brazil; Elaine Cristina Lengowski, UFPR – Brazil; Bruno Dufau Mattos, UFPR – Brazil; Tainise Vergara Lourençon, UFPR – Brazil; Livia Cássia Viana, UFPR – Brazil; Marina Mieke Nishidate Kumode, UEPG – Brazil</p>  |
| 09:35                               | <p><b>CelluForce: Progress toward commercialization</b><br/>Richard Berry, Cellulforce Inc. – Canada</p>   |
| 10:00-10:30                         | <b>Coffee Break</b>  |
| 10:30-12:30                         | <p><b><u>SESSION TWO : MODIFICATION AND APPLICATION OF SUSTAINABLE NANOMATERIALS</u></b><br/><b>Chairperson:</b> Michael Tam, WIN – Canada</p>   |
| 10:30                               | <p><b>Session Keynote I:</b><br/><b>Nanomaterials Applications In Food Packagings</b><br/>Nilda de Fátima Soares, UFV – Brazil</p>   |

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| 11:05                                 | <b>Session Keynote II:<br/>Green Multifunctional Organic-Inorganic Hybrids Based On Biopolymers And Recyclable materials</b><br>Sidney José L. Ribeiro, UNESP – Brazil   |
| 11:40                                 | <b>Polysaccharides As Functional Materials: From The Macromolecular Aspects To Bionanotechnology</b><br><b>Rilton Alves de Freitas</b> , UFPR – Brazil; Denise Freitas Siqueira Petri, USP – Brazil; Maria Rita Sierakowski, UFPR – Brazil   |
| 12:05                                 | <b>Hydrophobic Modification of Starch Nanoparticles for Drug Delivery</b><br>Ryan Amos, WIN - Canada; Lu Li, WIN - Canada; Jean Duhamel, WIN - Canada; <b>Mario Gauthier</b> , WIN - Canada  |
| 12:30-14:00                           | <b>Lunch</b>   |
| 14:00-16:00                           | <b><u>SESSION THREE: CHARACTERIZATION AND SELF-ASSEMBLING OF NANOSTRUCTURED MATERIALS</u></b><br><b>Chairperson:</b> Graciela Inês Bolzon de Muniz, UFPr – Brazil  |
| 14:00                                 | <b>Session Keynote:<br/>Photonic Materials from Cellulose Nanocrystals</b><br>Mark MacLachlan, UBC – Canada  |
| 14:45                                 | <b>Interactions of Cationic Surfactants and Cellulose Nanocrystals Studied by Isothermal Titration Calorimetry</b><br>Watson Loh, Unicamp – Brazil   |
| 15:10                                 | <b>Surface Interactions of Cellulose Nanocrystals with Polymers and Surfactants</b><br><b>Emily D. Cranston</b> , McMaster University – Canada; Tiffany Abitbol, McMaster University – Canada; Michael Reid, McMaster University – Canada; Heera Marway, McMaster University – Canada; Robert Pelton, McMaster University – Canada |
| 15:35                                 | <b>From Micro to Nanoscale: Synchrotron Techniques Revealing Details of Structured Materials</b><br>Mateus Borba Cardoso, LNLS - CNPEM – Brazil  |
| 16:00-16:30                           | <b>Coffee Break</b>  |
| 16:30-18:30                           | <b><u>SESSION FOUR: NANOCOMPOSITES (WOOD, FOAMS, POLYMERS)</u></b><br><b>Chairperson:</b> Watson Loh, Unicamp – Brazil   |
| 16:30                                 | <b>Session Keynote:<br/>Looking to Nature &amp; Science to Redesign Biobased Nanomaterials</b><br>Steven Bloembergen, Ecosynthetix – Canada  |
| 17:15                                 | <b>Developing a Business Case for Unforeseen Products</b><br>Anne Savage Franey, Advanced Cellulosic Material – Canada   |
| 17:40                                 | <b>Melt Processing Strategies for Obtaining Cellulose-Polymer Nanocomposites</b><br>Alessandra de Almeida Lucas, UFSCAR – Brazil   |
| 18:05                                 | <b>Renewable Thermoplastic Nanocomposites</b><br>Leonardo Simon, WIN - Canada  |
| <b>Wednesday, May 28<sup>th</sup></b> |  |
| <b>Auditorium</b>                     |  |
| 08:00-10:00                           | <b><u>SESSION FIVE: PHYSICAL CHARACTERIZATION OF BIONANOMATERIALS</u></b><br><b>Chairperson:</b> Sidney Ribeiro, UNESP – Brazil  |
| 08:00                                 | <b>Session Keynote:<br/>Nanostructural variability of lignocelluloses: methods and importance for biomass conversion</b><br>Carlos Driemeier, CTBE/CNPEM – Brazil  |
| 08:45                                 | <b>Characterization of Starch Nanoparticles</b><br>Scott Taylor, WIN - Canada  |
| 09:10                                 | <b>Micro and nanostructures revealed by the biomass pretreatments</b><br>Camila Alves de Rezende, Unicamp – Brazil   |
| 09:35                                 | <b>Functionalized Cellulose Nanocrystals for Personal Care and Related Applications</b><br>Michael Tam, WIN – Canada   |
| 10:00-10:30                           | <b>Coffee Break</b>  |

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| 10:30-12:30 | <b>SESSION SIX: ADHESIVES, COATINGS &amp; NANOAGRI APPLICATIONS</b><br><i>Chairperson: Alain Francq, WIN – Canada</i>   |
| 10:30       | <b>Session Keynote:</b><br><b>Adhesion and Contact Dynamics of “Soft” Materials and Thin Films</b><br>Boxin Zhao, WIN – Canada  |
| 11:15       | <b>Cellulose nanocrystals as Sustainable Nanomaterials and their Possible Applications</b><br>Fabiano Vargas Pereira, UFMG – Brazil   |
| 11:40       | <b>Development of nanoparticles preparation routes from polysaccharides of Brazilian biodiversity</b><br><b>Regina de Paula</b> , UFC – Brazil; Haroldo C. B. Paula, UFC – Brazil; Judith P.A. Feitosa, UFC – Brazil<br>Durcilene A. Silva, UFPI – Brazil; Raquel E. Moura, UFC – Brazil; José G. Veras-Neto, UFC – Brazil<br>Nádia A. O. Pitombeira, UFC – Brazil; Clara M. W. Santos, UFC – Brazil  |
| 12:05       | <b>Nanocatalysis : an important tool for Green Chemistry</b><br><b>Eduardo Falabella Sousa-Aguiar</b> , Petrobras Research Centre – Brazil; João Monnerat A. R. Almeida, UFRJ – Brazil; Pedro Nothhaft Romano, UFRJ – Brazil; Yuri Carvalho, UFRJ – Brazil  |
| 12:30-14:00 | <b>Lunch</b>  |
| 14:00-16:00 | <b>PANEL DISCUSSION: MARKET TRENDS FOR NANO MATERIALS</b><br><b>Co-Chairperson(s):</b><br><br>Fabio Figliolino, Suzano Papel e Celulose S/A – Brazil<br>Steven Bloembergen, Ecosynthetix – Canada<br><br><ul style="list-style-type: none"> <li>• Anne Franey, President, Advanced Cellulosic Material – Canada</li> <li>• Anderson Eurich Alaminio, Grupo Boticario – Brazil</li> <li>• Behzad Ahvazi, Alberta Innovates, NCC Pilot Plant - Canada</li> <li>• Charles Klass, Klass Associates Inc. – Canada</li> <li>• Eduardo Falabella, Petrobras – Brazil</li> <li>• Elenice Pereira Maia, Suzano – Brazil</li> <li>• Francisco Jorge Pedrosa Júnior, Duratex – Brazil</li> <li>• Hamdy Khalil, Woodbridge Foam Corp – Canada</li> <li>• Manoel Lisboa da Silva Neto, Braskem – Brazil</li> <li>• Marcelo Moreira Costa, Kemira – Brazil</li> <li>• Richard Berry, CelluForce – Canada</li> </ul> |
| 16:00-17:00 | <b>GROUP DISCUSSION: BRAZIL – CANADA COOPERATION STRATEGIES</b><br><b>Chairperson: Arthur Carty, WIN - Canada and Flávio Orlando Plentz, – MCTI - Brazil</b> <ul style="list-style-type: none"> <li>• Finep</li> <li>• CNPq</li> <li>• Evaldo Ferreira Vilela, FAPEMIG – Brazil</li> <li>• José Roberto de França Arruda, FAPESP – Brazil</li> </ul>  |
| 17:00-17:15 | <b>CLOSING CEREMONY</b>   |