International Wood Composites Symposium 2013

Market Dynamics, Product Development, Process Innovation

Seattle, Washington, USA
3 – 4 April 2013
### Program Agenda

**PRE-SYMPOSIUM: Tuesday, April 2, 2013**

Red Lion on Fifth Avenue  
Seattle, Washington

<table>
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| 5:00 pm−7:00 pm    | **Welcome Reception**  
Hosted by WSU and APA—*The Engineered Wood Association*  
Seattle Ballroom 2 |

**Day 1: Wednesday, April 3, 2013**

Red Lion on Fifth Avenue  
Seattle, Washington

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<tr>
<td>7:30 am</td>
<td>Symposium Check-in/Registration Open</td>
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<tr>
<td>7:30 am−8:30 am</td>
<td>Continental Breakfast</td>
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| 8:30 am            | **Welcome**  
Seattle Ballroom 2-3  
Vikram Yadama and Robert Tichy  
Symposium Committee Co-Chairs  
*Distinguished Service Award* |

#### KEYNOTE SESSION

Seattle Ballroom 2-3

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| 8:50 am            | Lynn O. Michaelis, President  
Strategic Economic Analysis, LLC  
*Happy days are nearly here again!* |
| 9:30 am            | Dennis Hardman, President/CEO  
APA—*The Engineered Wood Association*  
*Opportunities and challenges in a recovering economy* |
| 10:00 am           | Break                                                      |
| 10:30 am           | Tom Julia, President  
Composite Panel Association  
*Competitive and regulatory outlook for the North American composite panel industry: Are better days ahead?* |
| 11:00 am           | C.T. “Kip” Howlett, President  
Hardwood Plywood & Veneer Association  
*Engineered hardwoods addresses its challenging future* |
| 11:30 am           | Ivan Eastin, Professor and Director, CINTRAFORE  
University of Washington  
*Outlook and policy background of demand for wood products in China* |
| 12:00−1:00 pm      | Lunch                                                      |
| 1:00 pm            | Kirk Myers, Corporate Social Responsibility Manager  
Recreational Equipment, Inc. (REI)  
*Rethinking the supply chain—REI’s perspective* |
| 1:30 pm            | Justin Price, Engineering Manager & Principal  
Evergreen Engineering, Inc.  
*Engineering for product quality* |
| 2:00 pm            | Break                                                      |

*Wednesday agenda continued on next page.*
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<td>Seattle Ballroom 2-3</td>
<td>Belltown Room</td>
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| 2:30 pm | Keith Mays, Vice President  
Electronic Wood Systems North America  
New on-line scanning technologies to measure finished panel area-weight and dimensions | Mike McCollum, National Sales Manager  
Roseburg Forest Products Company  
Engineered wood products’ continued impact on the wood products industry |
| 3:00 pm | Jan T. Benthien, Research Assistant  
Thünen Institute of Wood Research, Germany  
Determination of MDF fiber size distribution: Requirements and innovative solution | Borjen Yeh, Director, Technical Services Division  
APA—The Engineered Wood Association  
Cross laminated timber (CLT) in North America |
| 3:30 pm | Panagiotis Nakos, Senior Representative  
Chimar Hellas, S.A., Greece  
Optimized particle size distribution to increase particleboard profitability | Tony Pugel, Senior Process Technologist  
LP Building Products  
How to make 2.0E stiffness laminated strand lumber (LSL) and make money |
| 4:00 pm | Saim Ates, Associate Professor  
Kastamonu University, Turkey  
Effects of thermal treatment on medium density fiberboard (MDF) | Scott Leavengood, Director, Oregon Wood  
Advances in hardwood veneer checking research |
| 4:30 pm | Cole Martin, Area Sales Manager  
Dieffenbacher USA, Inc.  
Latest developments in modern particleboard production | Harry Moore, Manager, Research and Development  
Metriguard, Inc.  
An improved sonic method for grading glulam stock |

5:00 pm–6:30 pm  
Technical Forum Poster Session  
Browse through poster displays and talk with vendors  
Reception during Technical Forum  
Complimentary wine and beer, hearty hors d’oeuvres
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| 9:30 am | Brian Seenandan, Vice President                                         | TreeFree Biomass Solutions
Nilefiber™ for composite panel production                                                   |
| 9:30 am | Alain Cloutier, Professor; Director, Wood Research Centre              | Laval University, Canada
Thermo-hygromechanical densification of aspen and sugar maple wood                        |
| 10:00 am | Break                                                                  |                                                                                            |
| 10:30 am | Martin Ohlmeyer, Senior Researcher                                      | European approaches to measure and assess emissions of volatile organic compounds (VOCs) with examples of how this affects wood products |
| 11:00 am | Mark Gruenwald, Director of Product Safety                             | Formaldehyde safety – Informed by 30+ years of scientific research                         |
| 11:30 am | Joseph Marcinko, Principal Scientist and President                      | European approaches to measure and assess emissions of volatile organic compounds (VOCs) with examples of how this affects wood products |
| 11:30 am | Joseph Marcinko, Principal Scientist and President                      | Using vintage chemistry (circa 1886) to understand PMDI/protein hybrid adhesives           |
| 12:00–1:00 pm | Lunch                                                              |                                                                                            |
| 1:00 pm  | Marc A. Strand, Research Associate                                     | Effect of thermoplastic coatings on the MOR and MOE of engineered wood products         |
| 1:30 pm  | Gregory D. Smith, Associate Professor, Department of Wood Science      | University of British Columbia, Canada
Strand-boom interactions in an OSB rotary drum blender                                    |
| 2:00 pm  | Anton Smit, Global Business Unit Manager                               | Sasol Wax North America
Efficiency and quality: The influence of modern hydrophobing additives                      |
| 2:30 pm  | Sheldon Shi, Associate Professor                                       | North Texas University
Performance enhancement of soy protein based adhesive by incorporating cellulose nanowhiskers |
| 3:00 pm  | Peter Crammond, Director                                               | RST Technology PTY, LTD, Australia
Adhesive tannin from Eucalyptus bark                                                        |
| 3:30 pm  | Jinwen Zhang, Associate Professor                                      | Washington State University
Use of lignin as feedstock for epoxy application                                             |
| 4:00 pm  | Adjourn                                                                 |                                                                                            |

**2013 Symposium Organizing Committee**

Vikram Yadama, Washington State University
Robert Tichy, Washington State University
Karl Englund, Washington State University
Steve Zylkowski, APA—The Engineered Wood Association