



Society of Wood Science and Technology 51st Annual Convention Concepción, Chile



Technical Poster Session with Reception
Monday, November 10, 2008 • 6:30–8:30 pm

Authors and Affiliations

Title of Presentations

Heber dos Santos Abreu, Natália Dias De Souza, Gisely de Lima Oliveira, Iara Grotz Moreira, and Tatiane Gosmes Costa; *Universidade Federal Rural do Rio de Janeiro, Brazil*

A Proposal of Eucalyptus Wood Identification by C NMR **WS-01**

Alfredo Aguilera, *Universidad Austral de Chile, Valdivia, Chile*

Roughness Profile and Cutting Energy in MDF Rip Sawing **WS-02**

Rubén A. Ananías, Patricio Perez, and Carlos Salinas, *Universidad del Bío-Bío, Concepción, Chile*

Drying Modeling of Canelo Regrowth **WS-03**

Violeta Bajenaru-Declerck, *Academy of Wood Sciences, Nantes, France*

The Forest Certification and Eco-Labels: A Social Progress or New Non-Tariff Barriers? **WS-04**

Aldo Ballerini A., Mario Núñez D., Andrea Wechsler P., and Ximena Bustos P., *Universidad del Bío-Bío, Concepción, Chile*

Innovation in Window and Door Profile Designs Using a Wood-Plastic Composite **WS-05**

Marius C. Barbu, *Universitatea Transilvania Brasov, Romania*; Chris van Riet, *European Panels Federation, Brussels, Belgium*

European Panels Market Development - Current Situation and Developing Trends **WS-06**

Ugo Leandro Belini, *Duratex S.A., São Paulo, Brazil*; Mario Tomazello Filho, *ESALQ/USP, Brazil*; José Tarcísio da S. Oliveira, *UFES, Brazil*

Alterations of the Anatomical Structure of Eucalypt Wood Chips in Three Refining Conditions for MDF Panels Production **WS-07**

Mario F. Benítez, *VDM Consulting Engineers Pty Ltd, Mona Vale, Australia*

Development and Testing of Timber/Concrete Shear Connectors **WS-08**

Francisco Burgos, Hernán Poblete, Marco Torres, and Ignacio Lopez, *Universidad Austral de Chile, Valdivia, Chile*

Biomass Evaluation of a *Chusquea culeou* Crop **WS-09**

Cecilia Bustos A., Justo Lisperguer M., César Moya L., Eduardo Viveros M., and Rodrigo Sepulveda, *Universidad del Bío-Bío, Concepción, Chile*

Effect of Sanding Process and Knife Wear on the Surface Quality of Radiata Pine **WS-10**

Cecilia Bustos A., *Universidad del Bío-Bío, Concepción, Chile*; Roger Hernandez and Yves Fortin, *Université Laval, Québec, Canada*

Effect of the Kiln Drying on Hardness and Machining Properties of Tamarack Wood for Flooring **WS-11**

Gilberto Carbonari, Everaldo Pletz, and Jorge Daniel de Melo Moura, *Londrina State University, Brazil*; Rafael Schmitz, *UNOESTE, São Paulo, Brazil*

Effect of External Sealing on Creep Deformations in Wooden Beams **WS-12**

Carolina Chávez H. and Felipe Baessler A., *Universidad del Bío-Bío, Concepción, Chile*; Oscar Cornejo Z., *Universidad Católica de la Santísima, Concepción, Chile*

Optimization of the Production Planning in the Supply Chain (Market-Sawmill-Harvest) Using a Game Theory Approach **WS-13**

Andrés Batista Cheung and Carlito Calil Junior, *Universidade de São Paulo, Brazil*; Malton Lindquist, *Natal, São Paulo, Brazil*

Structural Reliability of Stress-Laminated Timber Bridges **WS-14**

Pablo Crespell and Marcia Vidal, *FPIInnovations – Forintek Division, Québec, Canada*

Market and Technology Trends and Challenges for Wood Plastic Composites in North America **WS-15**

Cláudio Henrique Soares Del Menezzi, *University of Brasília, Brazil*

Relationship between Colour Modification and Dimensional Stability Improvement of a Thermally Treated OSB **WS-16**

Mauro Augusto Demarzo, *State University of Campinas (UNICAMP), São Carlos, Brazil*; A. M. Paixão, *Engexpress Engenharia Ltda, São Paulo, Brazil*

Influence of Wood Pallets Effort on the Behavior of the “Drive In” Storage Racks with One Level of Loading **WS-17**

Authors and Affiliations continued	Title of Presentations continued
Luiz Fernando de Moura and José Otávio Brito, <i>University of São Paulo (ESALQ – USP), Brazil</i>	Effect of Thermal Treatment on Machining Properties of <i>Eucalyptus grandis</i> and <i>Pinus caribaea</i> var. <i>hondurensis</i> Woods WS-18
Levente Denes, Elemer Lang, and Bradley A. McGraw, <i>West Virginia University</i> ; Zsolt Kovacs, <i>University of Western Hungary</i>	Investigation of the Compression and Bending Strength of Veneer-Polyurethane Foam Composites WS-19
Jean Deteix, Georges Djoumna, André Fortin, and Alain Cloutier, <i>Université Laval, Québec, Canada</i> ; Pierre Blanchet, <i>FPIInnovations – Forintek Division, Québec, Canada</i>	Minimizing the Weight of a Flooring Strip: a Shape Optimization Approach WS-20
Antonio Alves Dias and Diovane Daniel Beraldo, <i>University of São Paulo, Brazil</i>	Glued Laminated Timber Beams Using Castor Oil Adhesive WS-21
Érika da S. Ferreira and Setsuo Iwakiri, <i>Universidade Federal do Paraná, Brazil</i> ; Roberto C. C. Lelis and Edva de O. Brito, <i>Universidade Federal Rural do Rio de Janeiro, Brazil</i>	Use of Tannin from <i>Pinus oocarpa</i> Bark for Manufacture of Plywoods WS-22
Rose Marie M. Garay, <i>Universidad de Chile, Santiago, Chile</i>	Weathering Test of Coatings for Wood Panel Boards WS-23
Douglas J. Gardner and Yousoo Han, <i>University of Maine, Orono, ME, USA</i> ; Wayne Song, <i>Futuresoft Technologies, Manalpan, NJ, USA</i>	Wood Plastic Composites Technology Trends WS-24
Erlend Ystrøm Haartveit and Per Otto Flæte, <i>Norwegian Forest and Landscape Institute, Ås, Norway</i>	Near Infrared Spectroscopy (NIRS) as a Tool for Effective Classification of Wood WS-25
Salim Hizirolgu, <i>Oklahoma State University, Stillwater, OK, USA</i>	Internal Bond Strength of Laminated Flooring as Function of Water Exposure WS-26
José T. Karsulovic, Rubén M. Sepulveda, Maria I. Dinator, and Alejandro M. Bonzo-González, <i>Universidad de Chile, Santiago, Chile</i>	Determination of Defective Contral Cylinderon <i>Pinus radiata</i> (d.Don) Whorl by Means of Gamma Spectroscopy WS-27
Ricardo Jorge Klitzke and Djeison César Batista, <i>Universidade Federal do Paraná – UFPR, Brazil</i>	Study of the Consumption of Electric Energy in the Kiln Drying of Wood Using a Converter of Frequency WS-28
Ricardo Jorge Klitzke and Djeison César Batista, <i>Universidade Federal do Paraná – UFPR, Brazil</i>	Development of an Experimental Drying Schedule for <i>Eucalyptus dunnii</i> Wood Aiming Further Industrial Application WS-29
João Vicente de Figueiredo Latorraca and Djeison César Batista, <i>Rural Federal University of Rio de Janeiro</i> ; Divino Eterno Teixeira, <i>IBAMA, Brazil</i>	Flooring Panels from Cement-Bonded Particleboard Substrate Overlaid with Brazilian Wood of Tauari WS-30
Scott Leavengood, <i>Oregon State University, Corvallis, OR, USA</i>	Developing Markets for Lesser Known Species: The Case of Western Juniper in Oregon WS-31
Jonathan Linton, H. Michael Barnes, and R. Daniel Seale, <i>Mississippi State University, Mississippi State, MS, USA</i>	Effect of Species-Type on Properties of Steam Pressed Scrim Lumber (SPSL) WS-32
Nilson T. Mascia, Júlio Soriano, Elias A. Nicolas, <i>University State of Campinas, Brazil</i>	Concerning Timber-Concrete Panels and T-Beams for Rural Bridges WS-33
José Luiz Miotto and Antonio Alves Dias, <i>University of São Paulo, Brazil</i>	GFRP-Glulam-Concrete Composite Beams: An Option to Bridge Large Spans WS-34
Julio C. Molina and Carlito C. Junior, <i>University of São Paulo, Brazil</i>	Numerical-Experimental Analysis of Connectors for Log-Concrete Composite Deck Bridges WS-35
Jorge Luís Nunes de Góes, <i>Universidade Federal do Paraná, Brazil</i> ; Carlito Calil Junior, <i>University of São Paulo, Brazil</i>	Field Load Test Behavior of Composite Log-Concrete Bridge – P01 WS-36
Erlend Nybakk, Per Otto Flæte, and Terje Birkeland, <i>Norwegian Forest and Landscape Institute, Ås, Norway</i> ; Knut Finstad, <i>Norwegian Institute of Wood Technology, Oslo, Norway</i>	From a Bucking-to-Value to a Bucking-to-Demand System in Norway: A Case Study in Forests with Varying Growth Conditions WS-37
Denny Ohnesorge, Inga Krowas, and Gero Becker, <i>University of Freiburg, Germany</i>	Results of Durability Tests of Thermal Treated Lumber WS-38

Authors and Affiliations continued	Title of Presentations continued
Alexander Opazo and Cecilia Bustos A., <i>Universidad del Bío-Bío, Concepción, Chile</i>	Study of the Lateral Strength of Timber Joints with Inclined Self-Tapping Screws WS-39
Edna Moura Pinto and Carlito Calil Junior, <i>University of São Paulo, Brazil</i>	Thermal Degradation of <i>Eucalyptus grandis</i> , <i>Pinus Spp.</i> and <i>Goupia glaba</i> Timber WS-40
Hernán Poblete, Robert Juacida, Juan E. Díaz-Vaz, and Héctor Cuevas, <i>Universidad Austral de Chile, Valdivia, Chile</i>	Technological Characterization of <i>Chusquea Culeou</i> , A Bamboo Growing in Chile WS-41
Francisco J. Ramis and Pablo A. Concha, <i>Universidad del Bío-Bío, Concepción, Chile</i> Liliana Neriz, <i>Universidad de Chile, Santiago, Chile</i> José A. Sepúlveda, <i>University of Central Florida, Orlando, FL, USA</i>	An Object Oriented Library for Sawmill Simulation WS-42
Renata Renzo, Fábio A. Mori, Lourival M. Mendes, and Francisco C. Gomes, <i>Universidade Federal de Lavras, Brazil</i>	Mechanical Properties of Laminated Veneer Lumber Panels of <i>Eucalyptus grandis</i> WS-43
José Ruiz, Juan P. Elissetche, Sofía Valenzuela, Claudio Balocchi, Regis Mendonça, and Jaime Rodríguez, <i>Universidad de Concepción, Concepción, Chile</i>	Comparison of Two Heights for Sampling Increment Cores to Develop NIR Models for Prediction of Chemical Properties of <i>Eucalyptus globus</i> Clones WS-44
Martin Sanchez A. and Ciro Mastrandrea, <i>INTA, Argentina</i> ; José Tarcisio Lima, <i>Universidade de Lavras, Brazil</i>	Wood Technologies and Uses of Eucalyptus Wood from Fast Grown Plantations for Solid Products WS-45
Vanderlei Santos de Souza, Alison Augusto Loper, Cristiane de Loyola Eisfeld, Alexandre Nascimento de Almeida, João Carlos Garzel Leodoro da Silva, <i>Universidade Federal do Paraná, Brazil</i>	Comparative of the Sawnwood and Pulp and Paper Industries Using the Box & Jenkins's Method WS-46
Vanderlei Santos de Souza, Cristiane de Loyola Eisfeld, Alexandre Nascimento de Almeida, Alison Augusto Loper, and Blas Henrique Caballero Nuñez, <i>Universidade Federal do Paraná, Brazil</i>	Power of Forecast of a Box and Jenkins Model - A Case Study of the Plywood International Price WS-47
Pedro G. A. Segundinho and Antonio A. Dias, <i>University of São Paulo, Brazil</i>	Dynamic Investigation of a Suspension Timber Footbridge WS-48
Leandro Shiroma and Antonio L. Beraldo, <i>State University of Campinas, Brazil</i>	Wood-Plastic Composite WS-49
Bob Smith, Victor Cossio, and Tom Hammett, <i>Virginia Tech, Blacksburg, VA, USA</i>	Development of Markets for Lesser Known Species (LKS) in Bolivia WS-50
Sanjay Srivastava, <i>Government of Jharkhand, Ranchi, India</i>	Economic Aspects of Compliance Assurances: Issues in Current Practice and Institutional Structures in International Trade in Forest Products WS-51
Thomas Tannert and Frank Lam, <i>University of British Columbia, Vancouver, Canada</i> ; Daniel Schmidt, <i>Universidad Mayor, Temuco, Chile</i>	CNC Timber Processing in Research and Manufacturing WS-52
Luis Valenzuela H. and Luis Sandoval M., <i>Universidad de Concepción, Concepción, Chile</i>	Variability of Specific Weight of Wood Substances in the Clonal Family of <i>Eucalyptus nitens</i> WS-53
Afshin Veisi, <i>Islamic Azad University of Boroujerd, Iran</i>	Study of Physical, Biometerial, and Chemical Properties of White Poplar Wood (<i>Populus alba</i>) for Longitudinal and Radial Axials in Boroujerd Region WS-54
Jingxin Wang, James Armstrong, Jinzhuo Wu, and Wenshu Lin, <i>West Virginia University, Morgantown, WV, USA</i>	An Analysis of Appalachian Hardwood Markets in China WS-55
Andrea Wechsler and Aldo Ballerini, <i>Universidad del Bío-Bío, Concepción, Chile</i> ; Salim Hizirolgu, <i>Oklahoma State University, Stillwater, OK, USA</i>	Some of the Properties of Wood Plastic Composites WS-56

Student Poster Competition:

Alawode Abiodun, *University of Ibadan, Nigeria*

Production of Wood Adhesive Made from Starch for Particle Board Manufacture **WS-57**

Oluwatosin Emmanuel Adedipe and Ben Dawson-Andoh, *West Virginia University, Morgantown, WV, USA*

Prediction of Yellow-Poplar (*Liriodendron tulipifera*) Veneer Stiffness and Bulk Density Using NIR Spectroscopy and Multivariate Calibration **WS-59**

Tobias Biechele and Leif Nutto, *University of Freiburg, Germany*; Eduardo Navarrette, *Universidad de Concepción, Concepción, Chile*

Growth Stress in *Eucalyptus nitens* at Different Stages of Development **WS-60**

Daniel Fuentealba, Papa Niokhor Diouf, Yves Fortin, and Tatjana Stevanovic, *Université Laval, Québec, Canada*

Characterization of Birch (*Betula papyrifera* Marsh.) Wood Discoloration During Drying **WS-61**

Victor Gaete-Martinez, Stephen M. Shaler, Russell Edgar, and Jon Hill, *University of Maine, Orono, ME, USA*

Effect of Strand Geometrical Distribution (SGD) in Oriented Strand Composite (OSC) Formation Quality **WS-62**

Zanin Kavazovic, Alain Cloutier, André Fortin, and Jean Deteix, *Université Laval, Québec, Canada*

Sensitivity Study of a Numerical Model of Heat and Mass Transfer Involved During the MDF Hot Pressing Process **WS-63**

Maria Manso Martin, Leif Nutto, and Gero Becker, *University of Freiburg, Germany*

Wood Properties of *Nothofagus betuloides* **WS-64**

Sandeep Sudhakaran Nair and Sigun Wang, *University of Tennessee, Knoxville, TN, USA*
Donna Hurley, *NIST, Boulder, CO, USA*

Evaluation of Interphase Properties in Fiber Reinforced Polymer Composite Using Contact Resonance Force Microscopy **WS-65**

Denny Ohnesorge and Gero Becker, *University of Freiburg, Germany*; Klaus Richter, *EMPA, Dübendorf, Switzerland*

Influence of Different Gluing Factors on the Bonding Performance of Glued Laminated Timber made from European Beech **WS-66**

Gloria S. Oporto, Douglas J. Gardner, Lucas Andruysk, and David J. Neivandt, *University of Maine, Orono, ME, USA*

Wood Plastic Composites Manufactured from Hot Water Extracted Wood. Part 1: Mechanical Evaluation **WS-67**



Example: Literature Cite for SWST Proceedings

Pepke EK (2008) Global trade of wood and paper products. Paper GT-3, 14 pp. /In/ Proc 2008 SWST International Annual Convention, November 10-12, 2008, Concepcion, Chile. Society of Wood Science and Technology, Madison, WI. ISBN #978-0-9817876-0-2