



Society of Wood Science and Technology

51st Annual Convention

Concepción, Chile



November 10, 2008

Registration Opening Session

7:30–8:30 am
8:30–9:45 am

Conference Co-General Chairs

Overview of Meeting Facilities, Safety/Health

César Moya L. (*Universidad del Bío-Bío, Concepción, Chile*)
Jerrold Winandy (*Forest Products Lab., Madison, WI, USA*)

Conference Hosts at Universidad del Bío-Bío

Convention Welcome

Dr. Héctor Guillermo Gaete Feres
(*President, Universidad del Bío-Bío, Concepción, Chile*)

SWST President

Overview of SWST: Mission, Vision and Benefits of Membership

James Armstrong (*West Virginia University, Morgantown, WV, USA*)

Technical Session #1 – Timber Engineering

10:00 am–1:00 pm

Co-Chairs

Alexander Salenikovitch (*Université Laval, Québec, Canada*)
Carlito Calil (*Universidade de São Paulo a São Carlos, Brazil*)

Presenters

Heavy Timber Construction in Canada

Robert Malczyk (*Equilibrium Consulting Inc., Vancouver, BC, Canada*)

Comparison of Chilean and US Seismic Design Provisions for Timber Structures

J. Daniel Dolan (*Washington State University, WA, USA*)
Peter Dechent Anglada, Gian Mario Giuliano Morbelli
(*Universidad de Concepción, Chile*)

Quality Control Considerations for Developing Structural Glued-laminated Timber (glulam) Using South American Wood Species

Roland Hernandez (*TECO, Sun Prairie, WI, USA*)

Wood Frame Construction Code in Chile

Enrique Escobar Gattás (*CTT - CORMA, Santiago, Chile*)

South American Timber Structures Code

Carlito Calil (*Universidade de São Paulo a São Carlos, Brazil*)

Lunch

1:00–2:00 pm

Tour of Universidad del Bío-Bío

2:00–3:00 pm

Technical Session #2 – Global Trade in Forest Products

3:00–6:00 pm

Co-Chairs

James Bowyer (*Dovetail Partners, Minneapolis, MN, USA*)
Martin Sanchez (*INTA, Concordia, Argentina*)

Presenters

Global Trade of Wood and Paper Products

Ed Pepke (*UNECE/FAO Timber Section, Geneva, Switzerland*)

Transformations of the Global Forest Products Sector: Drivers, Effects and Response

Sen Wang (*CanadianWood Fibre Centre, Ontario, Canada*)

Trees, Industry and Trade – A Chilean Overview

Charles Kimber (*Cellulosa Arauco y Constitución S.A., Arauco, Chile*)

The Rising of Forest Products Industry in China and Its Contribution to the World

Senlin Zhang and Shengfu Wu
(*China Forest Products Industry Assn., Beijing, China*)

Using Cultural Knowledge to Develop Niche Markets

Ernesto Wagner (*Weyerhaeuser, Uruguay*)
Eric Hansen (*Oregon State University, Corvallis, OR, USA*)

Oriented Strand Board Industry and Market Development in the South American Region – Main Challenges

Victor Gaete-Martinez and Alejandro Bozo
(*Universidad de Chile, Santiago, Chile*)

Technical Poster Session with Reception (Departamento Ingeniería en Maderas Building)

6:30–8:30 pm



November 11, 2008

**Technical Session #3 –
Wood Quality: Challenges
in the 21st Century**

9:00 am–12:00 pm

Co-Chairs

David Kretschmann (*Forest Products Laboratory, Madison, WI, USA*)
Rosven Libardo Arevalo Fuentes (*Universidad del Tolima in Ibagué, Colombia*)

Presenters

**Strategies for Clonal Selection of Poplar Hybrids in Chile
Based on Superior Wood Properties**

Francisco Zamudio, Marco Yañez, Ricardo Baettig
(*Universidad de Talca, Talca, Chile*)

**Effects of Stem Inclination on Compression Wood Formation in
Young Radiata Pine Trees**

Barb Lachenbruch (*Oregon State University, Corvallis, OR, USA*)
Fernando Droppelmann (*Universidad Austral de Chile, Valdivia, Chile*)

Impact of Silvicultural Practices on Loblolly Pine Wood Quality

Laurence R. Schimleck, Richard F. Daniels
(*University of Georgia, Athens, GA, USA*)
Alexander Clark III (*U.S. Forest Service, Athens, GA, USA*)

**Predicting Vertical Heartwood Diameter Profiles of Mature Scots
Pine (*Pinus Sylvestris L.*) Based on Data from the Forest**

Per Otto Flæte and Kjell Vadla (*Norwegian Forest and Landscape Institute,
Ås, Norway*)

**Poplar Wood Density Assessed by X-Ray Densitometry:
New Insights for Inferring Wood Quality**

Alberto Calderón, Fidel A. Roig, Natalia Navas, Arturo Somoza
(*Universidad Nacional de Cuyo, Mendoza, Argentina*)
Claudio S. Lisi, Mario Tomazello Filho
(*Universidad de São Paulo, São Paulo, Brazil*)

**Very Early Screening of Wood Quality for Radiata Pine:
Pushing the Envelope**

Luis Apiolaza, John C. F. Walker, Hema Nair, Brian Butterfield
(*University of Canterbury, Christchurch, New Zealand*)

**Pairing Test and Longitudinal Growth Strain:
Establishing the Association**

Shakti S. Chauhan (*University of Canterbury, Christchurch, New Zealand*)

Lunch

12:00–1:00 pm

SWST Annual Business Meeting (Auditorium)

1:00–2:00 pm

**Technical Session #4 –
Advanced Processing of Timber
in the 21st Century**

2:00–5:00 pm

Co-Chairs

Jerrold Winandy (*Forest Products Laboratory, Madison, WI, USA*)
Cecilia Bustos A. (*Universidad del Bío-Bío, Concepción, Chile*)

Presenters

**Evaluation of Quality Wood Bonding with Resorcinol and
Tannin Formaldehyde Adhesive**

Renato Renzo, Fábio A. Mori, Lourival M. Mendes, Francisco C. Gomes
(*Universidade Federal de Lavras, Brasil*)

**Densification of Wood Veneers under the Effect of Heat,
Steam and Pressure**

Alain Cloutier, Changhua Fang, Nicolas Mariotti
(*Université Laval, Québec, Canada*)
Ahmed Koubaa
(*Université du Québec en Abitibi-Témiscamingue (UQAT), Québec, Canada*)
Pierre Blanchet (*FPIInnovations – Division Forintek, Québec, Canada*)

Impact of Wood-Based Panels Industry on the Environment

Marius C. Barbu (*Universitatea Transilvania Brasov, Romania*)
Arno Frühwald (*Universität Hamburg, Germany*)
Oliver Stassen (*MDF Hallein*)

**Modulation of Moisture Content and Grouping of Wood from
Fast-Growth Tropical Species in Plantation**

Erika Urueña (*Universidad de Tolima, Colombia*)
Røger Moya, Cynthia Salas, Freddy Muñoz
(*Instituto Tecnológico de Costa Rica, Cartago, Costa Rica*)

**A Three-Dimensional Anisotropic Viscoelastic Maxwell Model for
Aging Wood Composites**

Jean Deteix, Georges Djoumna, André Fortin, Alain Cloutier
(*Université Laval, Québec, Canada*)
Pierre Blanchet (*FPIInnovations – Division Forintek, Québec, Canada*)

**Damage of the Cell Wall During Extrusion and Injection Molding of
Wood Plastic Composites**

William Gacitúa E. (*Universidad del Bío-Bío, Concepción, Chile*)
David F. Bahr, Michael P. Wolcott
(*Washington State University, Pullman, WA, USA*)

DMA Analysis of PVAc Latex Reinforced with Cellulose Nanofibrils

Francisco Lopez-Suevos, Christian Eyholzer, Nico Bordeanu
(*EMPA, Duebendorf, Switzerland*)

**Simulation of Lumber Production Planning Using Software Agents:
A Case Study**

Fabián Cid-Yáñez (*Universidad Austral de Chile, Valdivia, Chile*)
Jean-Marc Frayret (*École Polytechnique de Montréal, Canada*)
Alain Rousseau (*Université Laval, Québec, Canada*)
Francois Léger (*FPIInnovations – Division Forintek, Québec, Canada*)

**Official Banquet – Llacolen Club
Farewell by Universidad del Bío-Bío
Vice President Dr. Aldo Ballerini**

7:00 pm

November 12, 2008 - Forest Industry Bus Tour

