



Joint Session of the UNECE Timber Committee (TC) and
Society of Wood Science and Technology (SWST) International Convention

October 11–14, 2010 * October 15, 2010 Industry Tour (optional) organized by SWST
15 October, UNECE Timber Committee and FAO European Forestry Commission Bureaux meeting

“Innovative Wood Products are the Future”

Timber Committee Chair - Branko Glavonjić, University of Belgrade, Serbia

Society of Wood Science and Technology Chair - Susan E. Anagnost, SUNY College of Environmental Science and Forestry, USA

Session Moderators: Susan E. Anagnost, SUNY College of Environmental Science and Forestry, USA;

Ed Pepke, UNECE Trade and Timber Division, Switzerland



MONDAY, 11 OCTOBER

0900–1000: Registration with coffee

1000–1200: **Joint opening session of Timber Committee (TC) and Society of Wood Science and Technology (SWST), Salle XVIII** (Keynote – Jim Bowyer, Dovetail Partners, USA) **Keynote**

1200–1300: TC Session, Salle XVIII

1200–1300: SWST Business meeting, Salle XXIII

1500–1800: **Joint TC & SWST session: *Markets for Use of Solid and Engineered Wood Products in Green Construction*—Sudipta Dasmohaptra, North Carolina State University, USA and Branko Glavonjić, University of Belgrade, Serbia, Salle XVIII**

1500–1515: Opening of Session, Sudipta Dasmohaptra, North Carolina State University, USA, Branko Glavonjić, University of Belgrade, Serbia, Sue Anagnost, State University of New York, USA

1515–1530: *Introduction to Market Discussions*, Ed Pepke, UNECE/FAO, Switzerland

1530–1555: *Forest Products Market and Policy Developments*, Helmuth Resch, BOKU University, Austria

1555–1610: *Economic and Construction Situation 2010–2011*, Delton Alderman, USDA Forest Service, USA

1610–1630: Discussion

1630–1650: *EWP and VAWP Markets*, Filip de Jaeger, Forest-Based Sector Technology Platform

1650–1700: Discussion

1700–1720: *Consumer Perceptions on Wooden Multistory Houses: Segmenting International Markets*, Anders Baudin, Linnaeus University, Sweden **MA-1**

1720–1740: Break

1740–1800: Discussion and close of day's discussions

18:00: **Chairs' Reception, Palais des Nations, 8th floor**

TUESDAY, 12 OCTOBER

Parallel Sessions

1000–1300: **TC Market Discussions continued, Salle XVIII**

1000–1010: Opening of second session, Branko Glavonjić, University of Belgrade, Serbia

1010–1030: *Wood Raw Material Markets and Forecasts*, Roman Michalak, UNECE/FAO

1030–1050: *Wood Energy Markets and Policies*, Ms. Christiane Egger, O.Ö. Energiesparverband, Austria

1050–1120: Discussion



TUESDAY, 12 OCTOBER *continued*

1120–1140: *Carbon Markets*, Jukka Tissari, FAO, Italy
Discussion

1140–1200: *Certified Forest Products Markets*, Katie Fernholz, Dovetail Associates, USA

1200–1240: *Innovation through a Typology Integrating Advanced Manufacturing Technologies and Customization Strategies in Furniture Manufacturing*, Robert Beauregard, Université Laval, Canada

1240–1300: Discussion

1000–1300: **SWST Session: *Innovative Wood and Wood-based Materials and Their Use in Sustainable Construction* – Jim Bowyer**, Dovetail Partners, USA and **Ed Suttie**, Building Research Establishment (BRE) Timber, United Kingdom, Salle XXIII

1000–1025: *New Technology for the Continuous Production of Wood-Based Lightweight Panels*, Marius C. Barbu, University Transilvania Brasov, Romania **IW-1**

1025–1050: *New Lightweight Solid Wood Panels for Green Building*, Nikolay V. Skuratov, Moscow State Forestry University, Russia **IW-4**

1050–1115: *Formaldehyde Free Wood-Based Composites Produced Through a Reactive Extrusion Process*, Laurant M. Matuana, Michigan State University, USA **IW-2**

1115–1140: *Carbonizing Binder-less Wood Shaving Insulation Panels for Better Insulation Capacity and Durability-Part 1: Relationships Between Thermal Conductivity and Carbonizing Temperature*, Noboru Sekino, Iwate University, Japan **IW-3**

1140–1205: *Evaluation of lupin flour (LF)-based adhesive for making sustainable wood materials*, Marcia Vidal and Esteban Ramirez, Masisa S.A., Chile; Emilio Vergara, Mario Núñez and Aldo Ballerini, Universidad del Bío-Bío, Chile **IW-6**

1205–1230: *Measuring the Impact of Building Materials and the Opportunity for Wood-Based Construction*, Ed Suttie, BRE Timber, United Kingdom **IW-5**

1230–1300: Discussion and Questions

1500–1800: **SWST Session: *Poster Session, Student Poster Competition, Reception/Cash Bar, Hallway, 1st Floor, E-Building* – Douglas Gardner**, University of Maine, USA and **Magnus Wålinder**, SP Tratek, Technical Research Institute of Sweden, Sweden

1500–1800: **TC Market Discussions continued, Salle XVIII**

1500–1520: *Sawn Softwood Markets and Forecasts*, Russ Taylor, Wood Markets, Inc., Canada

1520–1540: Discussion

1540–1600: *Panels Markets and Forecasts*, Ivan Eastin, University of Washington, USA

1600–1615: Discussion

1615–1625: *Sawn Hardwood Market Developments and Forecasts*, Rupert Oliver, Forest Industries Intelligence Ltd., United Kingdom

1625–1645: *Appalachian Hardwood Product Exports – An Analysis of the Current Chinese Market*, Jingxin Wang, West Virginia University, USA **MA-3**

1645–1700: Discussion

1700–1720: *Paper and Pulp Markets and Forecasts*, Dr. Eduard Akim, St. Petersburg State Technological University of Plant Polymers, Russia

1720–1735: Discussion

1735–1800: *Summary and close of Market Discussions*, Branko Glavonjić, University of Belgrade, Serbia

WEDNESDAY, 13 OCTOBER

1000–1800: **TC & SWST Policy Forum: *Building Codes and Standards: Influence on Material Use and Construction Practices* – Robert Beauregard**, Université Laval, Canada and **Jeremy Wall**, UNECE Team of Specialists, Belgium, Salle XVIII



WEDNESDAY, 13 OCTOBER *continued*

- 1000–1010:** *Opening by UNECE/FAO Secretariat and Forum Chairman* – Ed Pepke, UNECE/FAO, Switzerland; Robert Beauregard, Université Laval, Canada; Jeremy Wall, UNECE Team of Specialists, Belgium
- 1010–1035:** *Keynote: Influence of Material Use in Green Building Policies*, Sylvain Labbé, Quebec Wood Export Bureau, Canada **BC-7**
- 1035–1055:** *A Review of International Building Environmental Assessment Systems and Standards and the Trend Towards Global Standards*, Alfonso Ponce, Sustainable Building Alliance and Direction, France **BC-9**
- 1055–1115:** *Comparison of European Codes, Standards, and Practice including with Other Global Regions*, Frank Werling, FinnForest UK, United Kingdom **BC-11**
- 1115–1135:** Discussion
- 1135–1155:** *Recent Developments in LCA Parameters*, Richard Murphy, Imperial College, United Kingdom **BC-8**
- 1155–1215:** *Environmental Evaluation of Timber Buildings Using Life Cycle Assessment Methodology*, Caroline Frenette, Cecobois, Canada **BC-4**
- 1215–1240:** *Towards a Sustainable Building Sector: Life Cycle Primary Energy Use and Carbon Emission of a Wood-framed Apartment Building with Biomass-based Energy Supply*, Leif Gustavsson, Linnaeus University and Mid Sweden University, Sweden **BC-5**
- 1240–1300:** Discussion
- 1300–1500:** Lunch on your own
- 1500–1520:** *Wood Products in Climate Policies and its Linkage to Sustainable Building Assessment Schemes*, Sebastian Rueter, Johann Heinrich von Thuenen-Institute (vTI), Germany **BC-10**
- 1520–1540:** *Why Wood is Not Used to a Greater Extent in the Construction of Multi-story Buildings*, Lars Eliasson, Växjö University, Sweden **BC-3**
- 1540–1600:** Discussion
- 1600–1615:** Break
- 1615–1635:** *Designers' Views of Green Structural Materials: Implications for Wood Science Research*, Chris Knowles, Oregon State University, USA **BC-6**
- 1635–1655:** *Marketing Certified Wood for Building Construction in Italy and UK: What is Missing?* Lucio Brotto, Agripolis-University of Padova, Italy **BC-1**
- 1655–1715:** *Future Impact of Users' Demands on the Forest Sector*, Ivan Eastin, University of Washington, USA **BC-2**
- 1715–1735:** Discussion
- 1735–1745:** Break
- 1745–1800:** *Chairmen's Summary and Closing Remarks*, Robert Beauregard and Jeremy Wall

THURSDAY, 14 OCTOBER

1000–1300: TC Session, Salle XVIII

1000–1300: SWST Session: *Role of Nanotechnology in Green Materials and Sustainable Construction*
–**Vikram Yadama**, Washington State University, USA and **Alain Dufresne**, Grenoble Institute of Technology (INP), France, Salle XXIII

- 1000–1030:** *Full Set of Elastic Constants of Spruce Wood Cell Walls Determined by Nanonindentation*, Johannes Konnerth, Christoph Buksnowitz, and Wolfgang Gindl, Boku University Vienna, Austria; and Karen Hofstetter and Andreas Jäger, Vienna University of Technology, Austria **NT-2**
- 1030–1100:** *Progress on Cellulose Nanofiber-Filled Thermoplastic Composites*, Douglas J. Gardner, University of Maine, USA **NT-1**
- 1100–1130:** *Green Nanocomposites Reinforced with Cellulosic Crystals Isolated from Hardwood Residues and Hybrid Poplar*, Jingxin Wang, West Virginia University, USA **NT-6**
- 1130–1200:** *Impact of Two Different Cellulose Nanoreinforcements on the Melting and Crystallization Behavior of Polycaprolactone*, Gilberto Siquiera, Lulea University of Technology, Sweden **NT-5**
- 1200–1230:** *In Situ Cure of Cellulose Whiskers Reinforced Thermosetting Phenolic Resins: Impact on Resin Morphology, Cure and Performance*, Marie-Pierre G. Laborie, Albert Ludwig University of Freiburg, Germany **NT-4**

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THURSDAY, 14 OCTOBER *continued*

1230–1300: *Release of Conventional and Nano-Sized Biocides from Coated Wooden Facades During Weathering: Consequences for Functionality and Aquatic Environment*, Tina Künniger, EMPA, Switzerland **NT-3**

1300–1500: **Lunch presentation** - Bar Escargot, E-Building, 3rd Floor (Registration necessary-no cost). Sponsored by Surface Measurement Systems (SMS), United Kingdom.
Dynamic-Vapor Sorption Analyses of Wood – a New Approach to Classical Problems, Rupert Wimmer, Georg-August Universität Göttingen, Germany **LU-01**

1500–1800: **SWST Session: *Structural Design for Sustainable Construction and Disaster Mitigation*** – **Mike Wolcott**, Washington State University, USA and **Marc-André Gonin**, Bern University of Applied Sciences, Architecture, Wood and Civil Engineering, Switzerland, Salle XXIII

1500–1520: *Timberfabric Applying Textile Principles on a Building Scale*, Yves Weinand, IBOIS, Switzerland **SD-6**

1520–1540: *The Triakonta Structural System: From Toy to Tower*, John Elliott, Cornell University, USA **SD-2**

1540–1600: *Sustainable Light-weight Wood-strand Panels for Building Construction*, Vikram Yadama, Washington State University, USA **SD-7**

1600–1620: *Surge Wave Loading on Wood Structures*, Rakesh Gupta, Oregon State University, USA **SD-3**

1620–1640: Discussion and Questions

1640–1700: *Structural Design for Energy Efficient Multistory Timber Houses – State of the Art in Europe*, Andreas Müller, Bern University of Applied Sciences, Switzerland **SD-4**

1700–1720: *Seismic Behavior of Multistory Cross-laminated Timber Buildings*, Ario Ceccotti, CNR-IVALSA, Italy **SD-1**

1720–1740: *Stadthaus: Tallest Timber Residential Building in the World*, Andrew Waugh, Waugh Thistleton Architects, United Kingdom **SD-5**

1740–1800: Questions and Discussion

1500–1800: **SWST Session: *Current Challenges in Wood Science Education*** – **Jim Armstrong**, West Virginia University, USA and **Rupert Wimmer**, Georg-August-Universität of Göttingen, Germany, Salle XVIII

1500–1520: *Wood Science and Technology Program Accreditation in the United States – Guidelines, Processes and Changing Demand*, Robert W. Rice, University of Maine, USA **ED-6**

1520–1540: *European Master Programs in Wood Science and Technology*, Heiko Thoemen, Bern University of Applied Sciences, Architecture, Wood and Civil Engineering, Switzerland **ED-7**

1540–1600: *Women in the Wood Science and Technology Profession*, Susan Anagnost, State University of New York, USA **ED-1**

1600–1620: *Wood Science Educational Programs in East Europe*, Marius C. Barbu, University Transilvania Brasov, Romania **ED-2**

1620–1640: Discussion and Questions

1640–1700: *Part 1 – What Foresters Need to Know about Wood Technology*, James M. Ringe, University of Kentucky, USA; *Part 2 – What Wood Technologists Need to Know about Forestry*, Terrance E. Conners, University of Kentucky, USA **ED-3**

1700–1720: *E-Learning in Wood Science and Technology-The Moby Wood Tool*, Robert Nemeth, University of West Hungary, Hungary **ED-5**

1720–1740: *Sustainable Biomaterials and Bioenergy – Examining How We Think about Forest Products, from Education to Global Policy*, Barry Goodell, University of Maine, USA **ED-4**

1740–1800: Questions and Discussion

2000: SWST Swiss Banquet at Edelweiss Restaurant (\$50 fee required)

FRIDAY, 15 OCTOBER

800–1700: **SWST Industry Tour – *Center for European Nuclear Research (CERN), École Polytechnique Fédérale de Lausanne (EPFL), and Sauvabelin Tower*** (\$75 fee required)

900: UNECE Timber Committee and FAO European Forestry Commission Bureaux Meeting, Salle IV