

# SWST Newsletter ~ August 2010 ~



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## *Note from the Editor*

SWST is now [Facebook friendly](#)

Please note – The Society's address has changed!

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Items for the October 2010 SWST Newsletter should be sent to me by the end of September - [AdamTaylor@utk.edu](mailto:AdamTaylor@utk.edu)

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)

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*, Robert Shelburne, UNECE

1610–1630: Discussion

1630–1650: *EWP and VAWP Markets*, To be announced

1650–1710: *Consumer Perceptions on Wooden Multistory Houses: Segmenting International Markets*, Tobias Schauerte,  
Våxjö University, Sweden

1710–1730: *Development of Bamboo Industry in Ghana: A Viable Option toward Green Construction*, Stephen Lartey  
Tekpetey, Kwame Nkrumah University of Science and Technology, Ghana

1730–1800: Discussion

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*, To be announced

1030–1050: *Wood Energy Markets and Policies*, To be announced

1050–1120: Discussion

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**Palais des Nations, Geneva, Switzerland**



**TUESDAY, 12 OCTOBER** *continued*

- 1120–1140: *Carbon Markets*, Jukka Tissari, FAO, Italy  
1140–1200: Discussion  
1200–1240: *Certified Forest Products Markets*, Katie Fernholz, Dovetail Associates, USA  
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  
1025–1050: *New Lightweight Solid Wood Panels for Green Building*, Nikolay V. Skuratov, Moscow State Forestry University, Russia  
1050–1115: *Formaldehyde Free Wood-Based Composites Produced Through a Reactive Extrusion Process*, Laurant M. Matuana, Michigan State University, USA  
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  
1140–1205: *Wood Adhesives Based on Tannins for Green Building*, Marcia Vidal, Masisa S.A., Chile  
1205–1230: *Measuring the Impact of Building Materials and the Opportunity for Wood-Based Construction*, Ed Suttie, BRE Timber, United Kingdom  
1230–1300: Discussion and Questions
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- 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 Wällinder**, SP Tratek, Technical Research Institute of Sweden, Sweden
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- 1500–1800: **TC Market Discussions continued**, Salle XVIII
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- 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  
1615–1635: *Paper and Pulp Markets and Forecasts*, To be announced  
1635–1650: Discussion  
1650–1700: *Sawn Hardwood Market Forecasts*, To be announced  
1700–1720: *Appalachian Hardwood Product Exports – An Analysis of the Current Chinese Market*, Jingxin Wang, West Virginia University, USA  
1720–1735: Discussion  
1735–1800: *Summary and close of Market Discussions*, Branko Glavonjić, University of Belgrade, Serbia

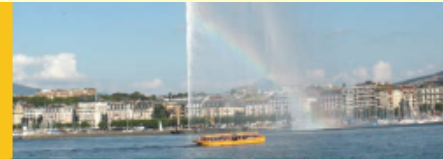
**WEDNESDAY, 13 OCTOBER**

- 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
- 
- 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  
1035–1055: *A Review of International Building Environmental Assessment Systems and Standards and the Trend*

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**WEDNESDAY, 13 OCTOBER** *continued*

- Towards Global Standards*, Alfonso Ponce, Sustainable Building Alliance and Direction, France
- 1055–1115: *Comparison of European Codes, Standards, and Practice including with Other Global Regions*, Frank Werling, FinnForest UK, United Kingdom
- 1115–1135: Discussion
- 1135–1155: *Recent Developments in LCA Parameters*, Richard Murphy, Imperial College, United Kingdom
- 1155–1215: *Environmental Evaluation of Timber Buildings Using Life Cycle Assessment Methodology*, Caroline Frenette, Cecobois, Canada
- 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
- 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
- 1520–1540: *Why Wood is Not Used to a Greater Extent in the Construction of Multi-story Buildings*, Lars Eliasson, Växjö University, Sweden
- 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
- 1635–1655: *Marketing Certified Wood for Building Construction in Italy and UK: What is Missing?* Lucio Brotto, Agripolis-University of Padova, Italy
- 1655–1715: *Future Impact of Users' Demands on the Forest Sector*, Ivan Eastin, University of Washington, USA
- 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**

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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

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- 1000–1030: *Orthotropic Material Behavior of Spruce Wood Cell Walls Determined by Nanoindentation*, Johannes Konnerth, Boku University Vienna, Austria
- 1030–1100: *Progress on Cellulose Nanofiber-Filled Thermoplastic Composites*, Douglas J. Gardner, University of Maine, USA
- 1100–1130: *Green Nanocomposites Reinforced with Cellulosic Crystals Isolated from Hardwood Residues and Hybrid Poplar*, Jingxin Wang, West Virginia University, USA
- 1130–1200: *Impact of Two Different Cellulose Nanoreinforcements on the Melting and Crystallization Behavior of Polycaprolactone*, Gilberto Siquiera, Grenoble Institute of Technology, France
- 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
- 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

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**THURSDAY, 14 OCTOBER** *continued*

- 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
- 
- 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  
1520–1540: *The Triakonta Structural System: From Toy to Tower*, John Elliott, Cornell University, USA  
1540–1600: *Sustainable Light-weight Wood-strand Panels for Building Construction*, Vikram Yadama,  
Washington State University, USA  
1600–1620: *Surge Wave Loading on Wood Structures*, Rakesh Gupta, Oregon State University, USA  
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  
1700–1720: *Seismic Behavior of Multistory Cross-laminated Timber Buildings*, Ario Ceccotti, CNR-IVALSA, Italy  
1720–1740: *Stadthaus: Tallest Timber Residential Building in the World*, Andrew Waugh, Waugh Thistleton Architects,  
United Kingdom  
1740–1800: Questions and Discussion
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- 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
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- 1500–1520: *Wood Science and Technology Program Accreditation in the United States – Guidelines,  
Processes and Changing Demand*, Robert W. Rice, University of Maine, USA  
1520–1540: *European Master Programs in Wood Science and Technology*, Heiko Thoemen,  
Bern University of Applied Sciences, Architecture, Wood and Civil Engineering, Switzerland  
1540–1600: *Women in the Wood Science and Technology Profession*, Susan Anagnost, State University of  
New York, USA  
1600–1620: *Wood Science Educational Programs in East Europe*, Marius C. Barbu,  
University Transilvania Brasov, Romania  
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  
1700–1720: *E-Learning in Wood Science and Technology-The Moby Wood Tool*, Robert Nemeth, University of  
West Hungary, Hungary  
1720–1740: *Sustainable Biomaterials and Bioenergy – Examining How We Think about Forest Products,  
from Education to Global Policy*, Barry Goodell, University of Maine, USA  
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)
- 
- 1000: UNECE Timber Committee and FAO European Forestry Commission Bureaux meeting

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**“Innovative Wood Products are the Future”**



Poster Session \* Student Poster Competition \* Reception/Cash Bar

October 12, 15:00–18:00 \* Hallway, 1st Floor, E-Building, Palais des Nations

Chairs: Douglas Gardner, University of Maine, USA and Magnus Wälinder, SP Tratek, Technical Research Institute of Sweden, Sweden



Title of Presentation	Authors and Affiliations	Student Poster
Flexible LVL: Potential for Newly Material Design	Koji Adachi and Masafumi Inoue, University of Tokyo, Japan; Hidefumi Yamauchi, Akita Prefectural University, Japan	
Performance of Novel Wood Protection Systems – Evaluation Based on Five Different Test Setups	Gry Alfredsen, Norwegian Forest and Landscape Institute, Norway; Per Otto Flåte, Norsk Treteknisk Institutt, Norway; Holger Miilitz, Georg-August-Universität Göttingen, Germany	
Efficacy of <i>Azadirachta indica</i> (Neem) and <i>Distemonanthus benthamianus</i> (Bonsamdua) Water Extracts on the Durability of Five Selected Ghanaian Less Used Timber Species	Akwasi Asamoah, Kwasi Frimpong-Mensah, and Charles Antwi-Boasiako, Kwame Nkrumah University of Science and Technology, Malaysia	
Compreg Laminates Made from Low Density Tropical Hardwoods	Zaidon Ashaari, Paridah Md. Tahir and Edi S. Bakar, Universiti Putra Malaysia, Malaysia	
Modeling the Hygroscopic Thickness Swelling Rate of Drying Process of Wood Fiber Composites from the Beech Wood	Agron Bajraktari, Bujar Pira, Ibrahim Cunaku, Muhamet Ymeri, Sejdi Hoxha; University of Prishtina	
Preservative-Treated Yellow Poplar <sup>4</sup> for Above Ground Use	Michael O. Hunt, Daniel Cassens, Robert Leavitt, and Daniel Warner, Purdue University; Terry Amburgey and H. Michael Barnes, Mississippi State University; Ramsay Smith and Kris Owen, Arch Wood Protection, Inc; and Tom Kohlmeier, SEEMAC, Inc.	
Steam-pressed Scrim Lumber (SPSL)	H. Michael Barnes and R. Dan Seale, Mississippi State University, USA	
Effect of Modification Treatment on the <i>Abies Pectinata</i> , <i>Fagus Orientalis</i> and <i>Populus Alba</i> Woods	Ali Bayatkashkoli, Mohammad Dahmardeh, and Farshad Mansore; University of Zabol, Iran	
Life-cycle Inventory of Manufacturing Prefinished Engineered Wood Flooring in the Eastern United States	Richard D. Bergman and Scott A. Bowe, University of Wisconsin-Madison, USA	
Reusing Reclaimed Lumber and Flooring in Construction: Measuring Environmental Impact using Life-Cycle Inventory	Richard D. Bergman, Hongmei Gu, and Robert H. Falk, USDA Forest Products Laboratory, USA	
Spatial Distribution and Carbon Sequestration by Coniferous Forest of Lete and Kunjo of Mustand District Nepal	Jyoti Bhandari, Institute of Forestry, Nepal	
Genetic Improvement of <i>Dalbergia Sissoo</i> (Roxb.) for Sustainable Uses in Construction of Green Buildings	Aradhana Bhatt and Ashok Kumar, Forest Research Institute, India	

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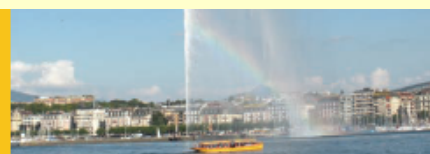
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Title of Presentation	Authors and Affiliations	Student Poster
Community Forestry as a Vehicle for Poverty Reduction, Good Governance, and Gender Equity	Dhruba Bijaya G.C., China Agricultural University, China	
Nanoindentation of Cell Walls in Densified Hot-Oil Treated Trembling Aspen Veneers	Cecilia Bustos Avila and William Gacitúa Escobar, Universidad del Bío-Bío, Chile; Alain Cloutier and Chang-Hua Fang, Université Laval, Canada	
Melamine Impregnating Resin/Layered Silicate Nanocomposite	Juqing Cui, Yufei Wu, Chong Jia, and Yang Zhang, Nanjing Forestry University, China	
Recycling the Sliced Veneer Clippings into Value-Added Products – An International Research Effort	Levente Denes and Zsolt Kovacs, University of Western Hungary, Hungary; Elemer M. Lang and Julio F. Davalos, West Virginia University, USA	
Increasing Sustainability of Solid Wood Structures by Replacing Flexible Shells through Elastic Interlayers	Franz Dolezal and Martin Teibinger, Holzforschung Austria, Austria	
Densification of Wood Veneers	Changhua Fang, Alain Cloutier, Nicolas Mariotti, Université Laval, Canada; Ahmed Koubaa, Université du Québec en Abitibi-Témiscamingue (UQAT), Canada; and Pierre Blanchet, FPInnovations-Division Forintek, Canada	
Processing Problems Associated with New Generation of Laminated Lumbers in Window Industry	Ali Fathollahzadeh, University of Applied Sciences Rosenheim, Iran	
Effect of Moisture on Bolt-Bearing Behavior of Structural Composite Lumber	Wen Guo, Benhua Fei, Beijing Forestry Machinery Research Institute, China; Sheldon Q. Shi and Dan Seale, Mississippi State University, USA	
Embodied Energy and Carbon Footprint of Norwegian Roundwood	Per Otto Fløete and Kristian Bysheim, Norsk Treteknisk Institutt, Norway; Gry Alfredsen and Birger Vennesland, Norwegian Forest and Landscape Institute, Norway; and Øyvind Eriksen, Paper and Fibre Research Institute, Norway	
Formaldehyde Emissions from ULEF and NAF Bonded Commercial Hardwood-Plywood as Influenced by Temperature and Relative Humidity	Charles R. Frihart, USDA Forest Products Laboratory, USA; Michael J. Birkeland, James M. Wescott, and K. M. Gonner, Heartland Resource Technologies, USA	
Soy Adhesives that can Form Durable Bonds for Plywood, Laminated Wood Flooring and Particleboard	Charles R. Frihart, USDA Forest Products Laboratory, USA; Michael J. Birkeland and James M. Wescott, Heartland Resource Technologies, USA; and Anthony J. Allen, Ashland-Hercules Water Technologies, USA	
Development of Nanoreinforced Composites by Using Functionalized Cellulose Microfibrils in Combination with Thermosets Derived from Renewable Sources	Nagore Gabilondo, A. Retegi, K. González, I. Maiza and I. Mondragon; Universidad del País Vasco/Euskal Herriko Unibersitatea, Spain	
Nanomechanical Properties of <i>Eucalyptus nitens</i> Related to Crack Propagation	William Gacitúa E., Cecilia Bustos A, and Paulina Valenzuela C., Universidad del Bío-Bío, Chile; Jean Pierre Lasserre, Forestal Mininico S.A., Chile	
Hardwood Log CT Scanning - Proof of Concept	Rado Gazo, Purdue University, USA; and Sun Joseph Chang, Louisiana State University, USA	
Investigation on the Permeability Coefficient of Wood Coated by Paints and Nano-Particles	Hadi Gholamiyan, Mahdi Shahverdi, and Sadegh Maleki, University of Tehran, Iran; Hamidreza Pirayesh, University of Gorgan, Iran	
The Measurement of Diffusion Coefficient of Poplar Wood ( <i>p. nigra</i> )	Hadi Gholamiyan, Mahdi Shahverdi, and Mosayeb Dalvand, University of Tehran, Iran; Hamidreza Pirayesh, University of Gorgan, Iran	
Sustainable Biofuels Production: A Supply Chain and Economic Analysis	R. Gonzalez, R. Phillips, D. Saloni, H. Jameel, and S. Kelley; North Carolina State University, USA	
Evaluation of Biological Delignification in Eucalyptus by <i>Trametes versicolor</i>	Richa Gupta, Vipin Kumar Saini and Sanjay Naithani, Forest Research Institute, India; R. P. Bhatt, H.N.B. Garhwal University, India; B. P. Thapliyal, Central Pulp and Paper Research Institute, India	

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Title of Presentation	Authors and Affiliations	Student Poster
Oriented Structural Straw Board: Application and Prospect in China	Guangping Han, Northeast Forestry University, China; Krijn D. K. Leedertse, Panel Board Holding BV, Netherlands; Wayne Wasylciw, Alberta Innovates-Technology Futures, Canada	
Laboratory Tests on Fungal Resistance and Hardness of Bagasse RMP Fiber/PP Composite	Seyyed Khalil Hosseini Hashemi, Mahdi Modirzare, Vahid-Reza Safdari; Islamic Azad University, Iran	
Transitional Disaster Relief Housing	Eva Haviarova and Carl A. Eckelman, Purdue University, USA	
An Investigation on Some Mechanical Properties of Wood Plastic Composites Made from the Flour of Aspen and Waste HDPE	S. Hossinzadeh, Ramin Vaysi, and M. Shams, Islamic Azad University of Chalous, Iran	
A Conceptualization in Computer Simulation of Processing Radiata Pine Finger-jointed Wood and Glued-Laminated Lumber	Seok Sean How, C. J. Williamson, and David Carradine, University of Canterbury, New Zealand; Y. E. Tan, Forest Research Institute, Malaysia	
Predicting Modulus of Elasticity of Short Length New Zealand Radiata Pine Finger Joint Shooks Using Flexural Vibration Method	Seok Sean How, David Carradine, C. J. Williamson, and Jason Cambridge, University of Canterbury, New Zealand; Y. E. Tan, Forest Research Institute, Malaysia	
Development of Wooden-based Nails for Wooden Pallet	Masafumi Inoue, Koji Adachi, Ken Kamachi, Mami Yokoi, University of Tokyo, Japan	
Extraction of Micro- and Nano- Cellulose Crystals from Non-wood Lignocellulosic Material	M. Sarwar Jahan, BCSIR Laboratories; Abrar Saeed and Yonghao Ni, University of New Brunswick, Canada	
Preparation and Characterization of Acrylamide-formaldehyde-urea Compatibilizer for Wood-plastic Composites	Chong Jia, Juqing Cui, Changtong Mei, Zhaobin Zhou and Yang Zhang, Nanjing Forestry University, China	
Structural Composite from FSC Certified Hybrid-Poplar	Frederick A. Kamke and Andreja Kutnar, Oregon State University, USA	
Comparison Between Physical Properties and Drying Behavior of White and Red Heartwood of Iranian Beech	Mahdi Shahverdi, Hadi Gholamiyan, and Elham Karami, University of Tehran, Iran	
Application of Nanotechnology in Improving the Performance of Solid Wood Products	Girma Kifetew, Växjö University, Sweden	
Development of a Carrier System for Cellulose Nanofibrils (CN) in Polymer Composites	Alper Kiziltas, Yousoo Han, Douglas J. Gardner and Jacques W. Nader, University of Maine, USA	
The Effect of Cellulose-Based Filler Type on Mechanical, Thermal and Rheological Properties of Thermoplastic Composites	Alper Kiziltas, Yousoo Han, Douglas J. Gardner and Jacques W. Nader, University of Maine, USA	
Organofunctional Silanes as Formaldehyde Free Adhesives for Fiberboards	Lars Kloeser, Georg-August-Universität Göttingen, Germany	
Nondestructive Evaluation of Wood Strand Mechanical Properties Using Near-Infrared Spectroscopy	Neil Kohan and Brian Via, Auburn University, USA	
Micro- and Micro Mechanical Properties of Red Oak Wood after Selective Removal of Hemicelluloses	Johannes Konnerth, BOKU University, Austria; Martina Eiser, Wood K plus GmbH; Andreas Jäger, Vienna University of Technology, Austria; Rupert Wimmer, Georg-August-Universität of Göttingen, Germany	
Best Practices in Quality Management for Innovation Performance	Scott Leavengood, Oregon State University, USA; Timothy R. Anderson, Portland State University, USA	
A Surface Antibacterial Wood Composite Decorated by Nano-sized Silver Melamine Impregnated Paper	Peng Li, Yubo Tao, Fenghu Wang, Northeast Forestry University, China	

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Title of Presentation	Authors and Affiliations	Student Poster
A Probabilistic Approach to the Simulation of Non-Linear Stress-Strain Relationships for Oriented Strandboard	Anthony McTigue and Annette Hart, NUI Galway, Ireland	
Optimization Methods for the Behaviour of Wood Elements on Exteriors	E. Morales Méndez and J. Ruiz, University of Seville, Spain	
Executive Perceptions of Certification Systems and Green Buildings: Implications for Future Supply of Certified Hardwoods	Judd Michael and Ruth Protpakorn, Pennsylvania State University, USA	
Study on Withdrawal and Shear Strengths with Hornbeam Dowel in Beech T Form Joint	Abdollah Najafi, Majtaba Soltani, and Koroush Mohammadpour, Islamic Azad University (Chalous Branch), Iran	
Investigation on the Properties of Cement Fiber Composite	Hamed Nasiri and Ali Varshoei, Islamic Azad University, Iran; Abolfazl Kargarfard, Research Institute of Forests & Rangeland, Iran	
Ecological Aspects of Aspen Timber Applications	Inger M. Norell, KTH Royal Institute of Technology, Sweden	
Health Benefits from Wood Interior in a Hospital Room	Anders O. Nyruud and Kristian Bysheim, NTI, Norway; Tina Bringslimark, Norwegian University of Life Sciences, Norway	
Interlaminar Fracture Mechanics Characterization of Surface Treatments for Wood Plastic Composites and Fiber Reinforced Polymer Composites Bonded Interfaces	Gloria S. Oporto, West Virginia University, USA	
Sustainability in the Development of Strategies for the Manufacturing Process of Wood-Based Composites	Azzeddine Oudjehane, Azzo & Associates Consulting, Canada	
Cellulose Nanofibrils Reinforced Inorganic Wood Composites	Yucheng Peng, Yousoo Han, and Douglas J. Gardner; University of Maine, USA	
Changes to California's Building Code for Construction in Wildfire Prone Areas: Impact on Wood and Wood-based Materials	Stephen L. Quarles, University of California Cooperative Extension, USA	
Decay Resistance of Maple ( <i>Acer Insigne</i> ) Wood Against White Rot in Natural State and Treated	Vahid Tazakor Rezaei, Islamic Azad University of Chalus, Iran	
Establishing Kiln Drying Schedule for Beech ( <i>Fagus Orientalis</i> ) at 7.5 cm Thickness from Kelardasht Region	Vahid Tazakor Rezaei, Islamic Azad University of Chalus, Iran	
Nanocomposites Based on Natural Rubber and Cellulose Nanocrystals from Coconut Fibers	Morsyleide F. Rosa and Men de sa M. de Souza Filho, Embrapa Agroindústria Tropical, Brazil; Eliton S. Medeiros, Delilah F. Wood, William J. Orts, and Syed H. Imam, ARS-USDA, USA; José A. Malmonge, UNESP-São Paulo State University, Brazil; Luiz H. C. Mattoso, Embrapa Instrumentação Agropecuária, Brazil	
Seismic Resistance of Wood Framework on Mudejar Structures	Jonathan Ruiz and Antonio Jaramillo, University of Seville, Spain	
Effects of Hardener Type and Particles Size on Formaldehyde Emission of UF Bonded Particleboard	Mohsen Saffari, Komeyl Sajedi, Ramin Veysi, and Abdollah Hoseynzadeh; Islamic Azad University (IAU) Chalous Branch, Iran	
Evaluation of Test Methods for Determination of Formaldehyde Emission from Composite Wood Products	Mohamed Z. M. Salem, Martin Böhm, and Štefan Barčík, Czech University of Life Sciences, Czech Republic; Jaromír Srba, Research Timber Institute, Czech Republic	
Novel Laminated Composites from Heat-treated Wood for Green Construction	Milan Semek and Mirko Kariz, University of Ljubljana, Slovenia	
Effect of Wood Drying Conditions on Occurring of Collapse During Drying	Mahdi Shahverdi, Saeed Eshaghi, and Hadi Gholamiyan, University of Tehran, Iran; Ali Haji Mirza Tayeb, Islamic Azad University, Iran	

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October 11–14, 2010  
 October 15, 2010 Industry Tour (*optional*) organized by SWST  
*Palais des Nations, Geneva, Switzerland*



Title of Presentation	Authors and Affiliations	Student Poster
Multi-layered Lightweight Panels made by In-process Foaming: Comparison of Core Materials	Ali Shalbatan and Jan Luedtke, University of Hamburg, Germany; Johannes Welling, Johann Heinrich von Thuenen-Institute (VTI), Germany; and Heiko Thoemen, Bern University of Applied Sciences, Architecture, Wood and Civil Engineering, Switzerland	
An Investigation on Some Mechanical Properties of Wood Plastic Composites Made from the Flour of MDF and Reed and Waste Polypropylene	M. Shams, Ramin Vaysi, S. Hossinzadeh, Islamic Azad University of Chalous, Iran	
Impact of Hot-pressing Parameters and Climate Conditions on Formaldehyde and VOCs Emission from Particleboard	Jun Shen and Jingxian Wang, Northeast Forestry University, China	
A Chemical Process for Preparing Cellulose Nanowhiskers (CNW) from Kenaf Bast Fibers for Polymer Composites	Jinshu Shi, Sheldon Shi, H. M. Barnes, Charles Pittman; Mississippi State University, USA	
Traditional Furniture Joinery from the Point of View of Advanced Technologies	Milan Simek and Vaclav Servera, Mendel University Brno, Czech Republic	
Skeleton Chair – CNC Technology in New Context	Adam Koreny and Milan Simek, Mendel University Brno, Czech Republic	
Ramie and <i>Luffa Cylindrica</i> Nanowhiskers as Reinforced Phase in Polycaprolactone	Gilberto Siqueira, Aparacido Junior de Menezes, Julian Bras, and Alain Dufresne, Grenoble Institute of Technology, France	
Fast Curing of Adhesive in Acetylated Wood Base Composite	Mojtaba Soltani, Amir Homan Hemasi and Habib Khademi-Eslam, Islamic Azad University, Iran; Behbood Mohebbi, Tarbiat Modares University, Iran	
Analysis of the Volatile Organic Compounds Emissions from Different Processing Particleboards	Shijing Sun, Jun Shen, Zhiming Liu, and Yu Liu, Northeast Forestry University, China	
The Effect of Lamina Configurations of Glue Laminated Timber on the Modulus of Elasticity and the Modulus of Rupture	Bambang Suryoatmono and Rendi Peterson, Parahyangan Catholic University, Indonesia	
Study on Load Carrying Capacity and Stiffness of Curved Glulam Beam	Bambang Suryoatmono and Adhi Bukhari, Parahyangan Catholic University, Indonesia	
The Investigation of Effective Factors on Supply and Demand of Particleboard in Iran	Ajang Tajdini, Amir Tavakkoli, Ahmad Jahan Latibari and Mehran Roohnia; Islamic Azad University, Iran	
The Effect of Nano Particles and Common Furniture Paints on Water Resistance Behavior of Poplar Wood ( <i>P.nigra</i> )	Hadi Gholamiyan, Asghar Tarmian, and Mahdi Shahverdi, University of Tehran, Iran; Hamidreza Pirayesh, University of Gorgan, Iran	
Tracking and Simulation of Dry Shell Formation in a Wood Drying Process by X-ray Spectroscopy	Mahdi Shahverdi, Hadi Gholamiyan, and Asghar Tarmian, University of Tehran, Iran; Mohammad Ali Hossein, Islamic Azad University, Iran	
Multi-storey Timber Houses in Urban Regions in Austria	Martin Teibinger, Holzforschung Austria, Austria	
Bamboo in Green Construction in Ghana: the Studies of Selected Anatomical Properties	Stephen Lartey Tekpetey, K. Frimpong-Mensah, and Akwasi Acheampong, Kwame Nkrumah University of Science and Technology, Ghana	
Investigation on the Brightness Reversion of Horn Beam CMP Pulp Following Accelerated Irradiation Aging	Ramin Vaysi, Islamic Azad University, Iran; S. A. Mirshokraie, Payame-Noor University, Iran	
Investigation on the Production Possibility of NSSC Pulp and Fluting Paper from Poplar	Ramin Vaysi and R. Frozanfar, Islamic Azad University, Iran	
Potential of Using the NSSC Pulp for Production Fluting Paper from Kiwi Residues in Mazandaran Wood and Paper Industries	Ramin Vaysi, Islamic Azad University (Sama Organization) of Chalous Branch, Iran	

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October 11–14, 2010  
 October 15, 2010 Industry Tour (*optional*) organized by SWST  
*Palais des Nations, Geneva, Switzerland*



Title of Presentation	Authors and Affiliations
Durability of High Wood-Content WPCs	Magnus E. P. Wälinder, B. Kristoffer Segerholm and Mats Westin; SP Träteknik, Technical Research Institute of Sweden, Sweden
Application of Fractal Theory in Wood Science Research	Fenghu Wang, Mingying Zhen, Xiaodong Zhu, Northeast Forestry University, China
Optimization of Process Parameter of Wheatstalk/Polystyrene Composite	Min Xu, Lijuan Wang, Jian Li, Weilun Sun, Northeast Forestry University, China
Discoloration Occurrence and Durability Improvement of Cedar Wood through High-temperature and Hot-water Treatments	Ki-young Son, Chang-Deuk Eom, In-Gyu Choi, and Hwanmyeong Yeo, Seoul National University, Korea
Evaluation of Energy Consumption During Drying of Pitch Pine Lumber and Center-Bored Timber	Jun-Ho Park, Yoon-Seong Chang, Joon-Weon Choi, In-Gyu Choi, Jun-Jae Lee, Hwanmyeong Yeo; Seoul National University, Korea
Evaluation of Thermal Environment in Wooden House Heated by Floor Heating System	Yoon-Seong Chang, Chang-Deuk Eom, Jun-Ho Park, Jun-Jae Lee, Hwanmyeong Yeo; Seoul National University, Korea
Evaluation of Moisture Transfer on the Surface of Wood Using NIR Spectroscopy During Drying	Chang-Deuk Eom, Jun-Ho Park, Yoon-Seong Chang and Hwanmyeong Yeo, Seoul National University, Korea
From Laboratory Corrosion Tests to a Corrosion Lifetime: Progress and Challenges	Samuel L. Zelinka and Samuel V. Glass, USDA Forest Products Laboratory, USA; Dominique Derome, EMPA, Switzerland
Value-added Exterior Particleboard Panels Manufacturing and Impact Assessment from Eastern Redcedar	Difei Zhang and Salim Hiziroglu, Oklahoma State University, USA
Considering Reversible Variations in Wood Properties: Possible Applications in the Choice of the Tree-Felling Date?	Ernst Zürcher and Christian Rogenmoser, Bern University of Applied Sciences BFH, Switzerland

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## **SWST 2014 INTERNATIONAL CONVENTION - CALL FOR PROPOSALS**

SWST is issuing a Call for Proposals for co-hosting our 2014 International Convention. We will be holding it outside of North America and any interested person, company, or university that would like to co-host in their city please submit a proposal and contact Vicki Herian at SWST:

P.O. Box 6155

Monona, WI 53716-6155

PH: 608-577-1342

Fax: 608-467-8979

Email: [vicki@swst.org](mailto:vicki@swst.org).

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## CAPTION CONTEST

Steve Quarles sent this in with the challenge to come up with a caption.



The Atlantic, May 2010, 305(4):44

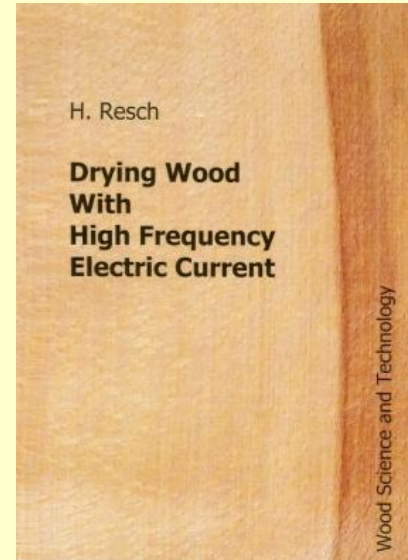
Mojgan A. Nejad [m.nejad@utoronto.ca]: I heard that fast growing trees are stronger than old ones, but I did not see anywhere in the article how long should I wait.

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# DRYING WOOD WITH HIGH FREQUENCY ELECTRIC CURRENT

by Helmuth Resch

This monograph aims at providing understanding of the many ways to employ special drying methods using high frequency electric currents for wood and wood products. It offers a broad coverage of research and development over many decades from the original concept to industrial applications. The physical process of dielectric heating has advantages of rapid and relatively uniform heat transfer, resulting in high drying rates and avoidance of various drying defects, including any significant casehardening and oxidative discoloration of wood. Heat transfer to and evaporation of moisture from wood is shown in dependence on the dielectric properties of materials. Because wood is heterogeneous, these properties vary not only with the frequency of the current and the field orientation, but also with the moisture content, temperature, and density of wood. Considering these parameters and the specific heat of the material, the selection of a frequency can be made for heating specific products and the power absorption and feasibility of a system can be estimated.



The text traces the historical roots of using high frequency current for heating and drying of wood. Principles of and formulas describing dielectric heating and the dielectric properties of wood give a background useful for understanding parameters of specific applications, energy transfer, and power consumption. Early equipment development for continuous and batch dryers using radio frequencies and microwaves is reported from work in Russia, USA, Canada, Japan, and Europe. The greatest emphasis is placed on the method of combining radio frequency heating with vacuum drying. Research during the last decades lead to industrial installations designed mainly for drying of lumber and timbers in vacuum kilns. This development provided a positive picture for higher value products. On the other hand, the continuation of research with microwaves promises to make use of their unique properties. Some ideas are advanced on achieving rapid and economic drying by combining other heat transfer methods with high frequency heating along production lines. Finally, the present understanding of the drying mechanism, the technical feasibility, and economics are considered. A broad listing of relevant literature provides the reader with a multitude of references. Data are presented in international and American units.

University of Natural Resources and Applied Life Sciences, Vienna, Austria  
Society of Wood Science and Technology, Madison, Wisconsin, USA  
ISBN 978-0-9817876-1-9

Cost: \$30 (Check payable to SWST; Visa, Mastercard)

Order from: SWST, P.O. Box 6155, Monona, WI 53716-6155; email: [vicki@swst.org](mailto:vicki@swst.org); Phone: 608-577-1342; Fax: 608-467-8979

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## **EDGAR MCGINNES JR., 1926 – 2010**

This announcement appears at <http://www.columbiatribune.com/news/2010/jul/25/edgar-mcginnes-jr-1926-2010/>

Dr. Edgar Allen McGinnes Jr., 84 of Fulton passed away Thursday, July 22, 2010.



Private family services will be held.

Edgar was born Feb. 15, 1926, in Chestertown, Md., to Edgar Allen McGinnes Sr. and Emily Francis Howard.

He served as a staff sergeant in the U.S. Army during World War II in the Pacific Campaign and was awarded a Victory Medal, Good Conduct Medal, American Campaign Medal and Atlantic-Pacific Campaign Medal.

He was a professor of forestry at the University of Missouri, retiring in 1988. He was named professor emeritus.

He received national honors and was named a fellow by the Society of American Foresters for his contributions to the society and forestry. Mr. McGinnes was an accomplished pianist and an outdoor enthusiast.

Survivors include a son, Jeffrey Thomas McGinnes of Barnard; two daughters, Christine Borgmeyer and husband Garrett of New Bloomfield, and Karen Tervo and husband Bill Zeaman of Holts Summit; three grandchildren, Kenna Tervo, Andrew and James Wieschhaus; three stepgrandchildren, Ryan Borgmeyer, Renee Perrine and Rachel Bush; and five great-grandchildren.

He was preceded in death by his parents and his wife, Jean.

Memorials may be given to the American Cancer Society.

Online condolences may be left at [www.parkerfuneralservice.com](http://www.parkerfuneralservice.com).

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## **GLOBAL COMPETITIVENESS OF HARDWOOD PRODUCTS: STRATEGIES FOR SUCCESS IN A CHINESE MARKET**

The conference “Global Competitiveness of Hardwood Products: Strategies for Success in a Chinese Market”, which is sponsored by West Virginia University Division of Forestry and Natural Resources and the USDA Forest Service, explores the opportunities and barriers confronting the US hardwood market in an increasingly challenging global economy. Industry leaders from both the US and China will converge to discuss strategies to improve trade relationships and eliminate common trade barriers. This conference will be held on August 22<sup>nd</sup> to 24<sup>th</sup> at Lansdowne Resort, Lansdowne, VA. Please find more information about the conference at <http://www.wdscapps.caf.wvu.edu/trade/>.





August 22<sup>nd</sup>- August 24<sup>th</sup>, 2010 • Lansdowne, VA

This conference explores the opportunities and barriers confronting the US hardwood market in an increasingly challenging global economy. Industry leaders from both the US and China will converge to discuss strategies to improve trade relationships and eliminate common trade barriers.

### CONFERENCE LOCATION

Lansdowne Resort  
44050 Woodridge Parkway  
Lansdowne, Virginia 20176  
877-509-8400

<http://www.lansdowneresort.com/>

### TOPICS COVERED

- US-China Trade Barriers
- Lacey Act
- Residential Housing Market Outlook
- Increasing Global Competiveness
- Forest Product Certification
- Marketing Strategies in a Down Market

### MORE INFORMATION?

For more details, or to register for the conference, please visit our website:

[www.wdscapps.caf.wvu.edu/trade](http://www.wdscapps.caf.wvu.edu/trade)

### FEATURED SPEAKERS

Representatives from the following organizations:

- American Hardwood Export Council
- Armstrong World Industries Inc.
- Center for International Trade in Forest Products
- China Flooring Holding Company, Ltd.
- China Forest Industry Association
- China Wood International
- Environmental Investigation Agency International
- China National Furniture Association
- Hardwood Review Weekly
- US China Build
- USDA Animal & Plant Health Inspection Service (APHIS)
- USDA Foreign Agricultural Service (FAS)
- USDA Forest Service
- Virginia International Terminals, Inc
- World Resources Institute
- World Wildlife Fund (WWF) -Global Forest & Trade Network (China & North America)
- Zhejiang Jiusheng Wood Co., Ltd.

### NETWORKING OPPORTUNITIES

- Hardwood Marketing Roundtable Session
- Display Opportunities for Conference Attendees

Conference Organized/Sponsored by:



## **W&FS EDITOR**

The Society of Wood Science and Technology is seeking interested applicants for Editor of Wood and Fiber Science (WFS). The duties of the Editor include all aspects of managing the review process for manuscripts submitted to the journal, eg, identifying reviewers, relaying the reviewer's comments to the authors, and determining the suitability of the final manuscript. The Editor will work with the Editorial Assistant to assure that manuscripts comply with the proper format and style of WFS, and are grammatically and technically correct. The Editor is assisted by an Editorial Advisory Board in reviews and policy development as needed. The Editor prepares regular reports to the SWST Executive Board and oversees the web-based information for WFS. Experience in writing and reviewing manuscripts, and editing journals or other publications is preferred. Computer literacy is required. Ideally, the Editor would be newly retired at the time of appointment. The Editor receives an honorarium of \$8500 and traveling expenses to two board meetings and the Annual Convention. The starting date is flexible, but is preferable in the beginning of 2011. Please forward your statement of interest and CV to Victoria Herian at [Vicki@swst.org](mailto:Vicki@swst.org)

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## **SWST CONFERENCE CALL BOARD MEETING HIGHLIGHTS**

**July 7, 2010**

Members present on call: Adam Taylor, Alain Cloutier, Jim Funck, Bob Bush, Sheldon Shi, Steve Quarles, Sue Anagnost, Susan Diehl, Todd Shupe, Tom Gorman, Vikram Yadama, Jerry Winandy, Frank Beall, and Vicki Herian

A motion was made, seconded and passed to accept the minutes from the April 2010 Board Meeting.

### Accreditation

- The committee is working on suggesting changes to the standards based on current status of the programs and profession. Oregon State University submitted a request to extend the date of their next accreditation to late in 2012, and that their current accreditation be extended from 2011 to 2013. They have had a major change in their program, now offering a BS in Renewable Materials.

### Ad hoc Marketing Committee

- consisting of Jerry Winandy, Chair, Jim Armstrong, Doug Stokke, Bob Rice, Adam Taylor, Steve Quarles, and Todd Shupe should begin working on implementing the strategic plan, especially as it can relate to new accreditation standards.

### Marra Award

- The Marra Award Committee has made their decision. The winners will be announced at the Geneva meeting. The Volume 42, 2010 committee has been active and involved with reading the articles. They will include the special CORRIM issue also. The committee is Kurt Bigbee, Chair, William Tze, Rupert Wimmer, and World Nieh.

The SWST Facebook is now linked to the SWST webpage. There are 57 Facebook group members as of July 1, compared to 49 on April 5. Among other things posted are announcement of the SWST call to donation to Universidad del Bio-Bio.

#### Past Presidents' Council

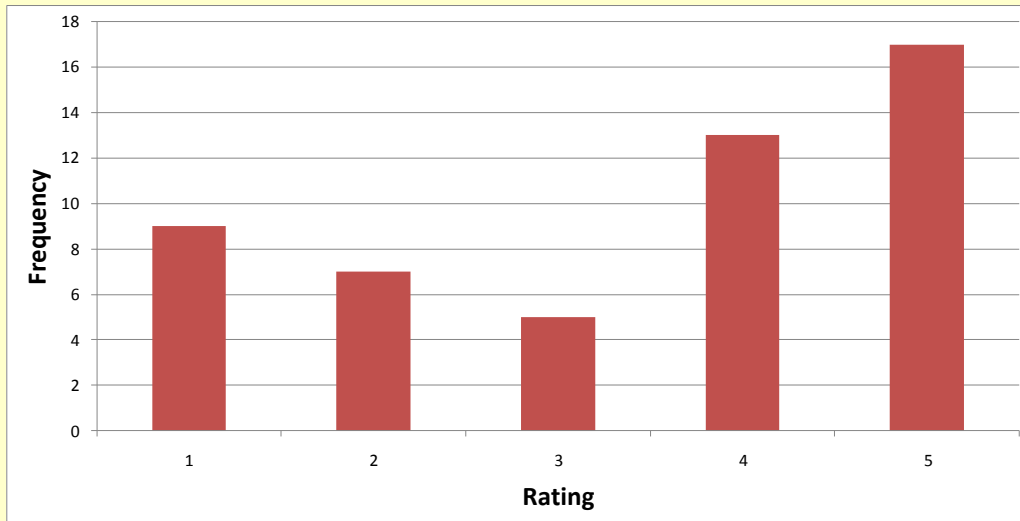
- Jerry polled the past presidents about how they felt about getting together at annual meetings. The consensus was that they wanted to get together in some format. .

#### Policy and Critical Issues

- Received some suggestions from SWST board for revising the position papers on hazardous fuels reduction and biomass fuels. A motion was made, seconded and passed to accept the two statements. They should be posted on the website for a 30-day comment period by the members. Vicki will also send out in an email announcement.
- Adam Taylor has planned with Jim Bowyer to start writing a white paper on "carbon footprint" in September.
- Discussion was begun between Steve Q and Adam T to summarize SWST National Research Needs Assessment. No action taken.

#### Visiting Scientist Program - *Results from survey regarding the interest level of Wood Scientists Without Borders*

- During the spring meeting, the SWST board asked the Chair of the Visiting Scientist Committee (Vikram Yadama & Brian Via) to send a survey to all members of SWST regarding the interest level of the proposed program "*Wood Scientists without Borders.*" The response to question number one can be seen in Figure 1. There were 54 respondents out of 441 total people contacted (12.2% response rate). The average rating was 3.4 and the distribution was non-normal.



**Figure 1:** A histogram of the response to the question, “What is your level of interest in “Wood Scientists Without Borders,” where 1 = a low level of interest and 5= a high level of interest?”

- There were 13 volunteers to serve on an ad hoc committee. There were several suggestions for case studies that could be pursued

#### Wood and Fiber Science

- In order to do a complete analysis of the impact of reduced page charges, we need a decision to go to electronic only publication, and then investigate an alternative means of manuscript preparation.
- Barb Hogan (former FPL editor) has agreed to start as Editorial Assistant on 1 September. I met with her at the Lab in June and was impressed with her enthusiasm.
- 42/3 (Jul) will issue with 15 research papers and 3 Technical Notes. We have 28 manuscripts being processed: 8 in review, 5 being revised after review, and 14 essentially completed or moving ahead to or in galley-proof.
- The Impact Factor was just issued for 2009. We are still next to last among these journals, and decreased 7% from 2008. Wood Science and Technology continues to have about the best longer term performance. The poorest performers in the group are IAWA (-18%) and FPJ (- 23%).

	2007	2008	2009	5-yr
BioResources			1.406	1.426
Cellulose	1.406	1.844	2.156	2.257
Holzforschung	0.811	1.278	1.236	1.329
Wood Science and Technology	0.691	1.460	1.737	1.611
IAWA Journal	0.687	1.000	0.825	1.123
Wood and Fiber Science	0.555	0.702	0.654	0.786
Forest Products Journal	0.351	0.550	0.426	0.530

- Below is the number of manuscripts received. The “+” indicates TN. Over the last four quarters, we are averaging 20 papers submitted each quarter (including TN). Considering those that are

rejected or withdrawn, we should be able to continue to publish about 18 per month; of course, depending on the flow in the next quarter.

(20) July: 9; Aug: 2; Sep: 9  
(17) Oct: 9 + 2; Nov: 4; Dec: 1 + 1  
(19) Jan: 2 + 1; Feb: 7 + 2; Mar: 7  
(25) Apr: 11 + 1; May: 6 + 1 ; Jun: 5 + 1

#### Newsletter

- David Jones will take over from Adam Taylor at the Newsletter Editor starting in January 2011

#### Executive Director's Report

##### **Current Paid Members as of 7/1/10**

Full members	313
Student members	54
Retired members	39
Emerging Full	10
Emerging Student	<u>8</u>
<b>TOTAL</b>	<b>424</b>

USA members	265
Canada members	53
Mexico members	1
Overseas members	105

##### **Paid Members as of 6/1/09**

Full Members	297
Student members	72
Retired members	39
Emerging Full	9
Emerging Student	<u>5</u>
	<b>422</b>

##### **Current Paid Subscribers as of 7/1/10**

Subscribers	174
USA	71
Canada	12
Mexico	0
Overseas	91

##### **Paid Subscribers as of 6/1/09**

Subscribers	189
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#### **Delinquent Members**

Delinquent members as of 7/1/10 for 2010 dues: total 72 – 30 full, 30 student, 2 retired, 7 emerging full, 3 emerging student.

Compared to delinquent members as of 6/1/09 for 2009 dues: 71 total – 36 full, 32 student, 3 retired

Delinquent subscribers for 2010 as of 7/1/10: 43 total (23 USA, 2 Canada, 18 foreign)

Compared to delinquent subscribers for 2009 as of 6/1/09: 36 total (14 USA, 22 foreign)

### **Vanguard Accounts and CD's**

The balance in the Vanguard funds was \$102,336.51 on December 31, 2009 (the date of the last statement). The current balance for the Vanguard Index Fund (student poster money) is \$14,269.38. The CD balance as of was \$60,214.33. The savings balance is \$60,675.27.

### **Checking Account**

The balance in the checking account as of March 31, 2010 is \$81,743.44.

### **Student Poster Competition Fund History and Status**

Contributors are: APA – The Engineered Wood Association, Asian Woods Company, Balazs Zombori, California Cedar Products, Entwood LLC, FPInnovations - Forintek, Iowa State University, Louisiana State University, Mississippi State University, North Carolina State University, Oregon State University, Pennsylvania State University, State University of New York (SUNY) ESF, Virginia Tech, University of British Columbia, University of Idaho, Washington State University, and Willamette Industries.

### **2010 Annual Conference**

The 2010 International Convention will be held in Geneva, Switzerland October 11-15, 2010, at the Palais des Nations, in conjunction with the UNECE/TC meetings. The general theme is “Innovative Wood Products are the Future”. We have received 132 abstracts from 29 different countries. The speakers have all been chosen and the rest will be posters. We have 36 speakers and 96 posters. A written paper will be required of all, with a proceedings available at the time of the meeting. We will end the week with a tour of CERN, Ecole Polytechnique Federale de Lausanne (where they are working on innovative building designs with wood), and the Sauvabelin Tower. We will have a banquet on Thursday evening that week at the Hotel Edelweiss, ending the meeting on a typical Swiss note. There will be no registration fee, but a fee will be assessed for the banquet (\$50) and tour (\$75). IUFRO Division 5 has agreed to co-sponsor this meeting and the 2012 meeting as well. Other sponsors are Maney Publishing, Centre de Recherche sur le Bois and Université Laval, FPInnovations, and Surface Measurement Systems. Information can be found on our website at <http://www.swst.org/meetings/AM10>

### **2011 International Convention**

The 2011 Convention will be cosponsored by Forest Products Society in Portland, Oregon, June 22, 2011, at the Doubletree Hotel in Portland, Oregon.

### **2012 International Convention**

We plan to hold the meeting August 27-31, 2012, in possible conjunction with Chinese Society of Wood Industry (CSWI) and/or Chinese Society of Wood Science. We will co-host the

meeting with the International Center for Bamboo and Rattan and hold the meeting at their hotel, The ICBR Tower. Possible Session Titles were: 1) reducing carbon emissions and the 2) energy used to convert wood products to user products and to promote 3) bio-based energy and 4) resource sustainability. Others might be: Global Trade, Fundamentals of Wood Science, Advanced Processing, Sustainability and the Change Forest Resource. We continue to work on the planning of this meeting.

## **Miscellaneous**

SWST began selling Helmuth Resch's book on "Drying wood with high frequency electric current". The book sells for \$30 plus shipping. So far we have sold 22 copies. For each copy that is sold, SWST makes \$1.

As of July 7, 2010, the following is the status of delinquent page charges. They have been sent 2<sup>nd</sup> and 3<sup>rd</sup> email notices.

42(1) \$1000.00 Brown, Ruffing, Shi, Smith; Penn State University  
\$1000.00 Lee, et al; Seoul National University  
\$1200.00 Lee, et al; Seoul National University  
\$1100.00 Drouin, Beauregard, Duchesne; Universite Laval

42(3) and 42(4) has been invoiced and 11 of 22 payments received.

2012 Convention – Sheldon Shi, Jerry Winandy, and Vicki Herian met with Madame Jiang and Benhua Fei in Madison at FPL on June 23. Madame Jiang wants to have one day of our meeting be a 1-day seminar with the Forest Service. Details haven't been worked out yet, but we will work with Dr. Fei to do. The convention will be August 27-31, 2012 at ICBR in Beijing.

2013 Convention – Nothing scheduled yet by FPS. Vicki offered Board-suggested ideas to Stefan.

2014 Convention – Some proposed sites are: University of Brazil Sao Paolo; Scion in New Zealand; University of Zvolen in Slavakia (coop with AIWS); possible cooperator in India; possible cooperator in Ireland

UBB Donation – Vicki transferred \$3500 to Universidad del Bio-Bio that was collected from SWST members to help them rebuild after the earthquake.

SAF Letter on Carbon Neutrality – A motion was made, seconded and passed to send this request to the members, with a short introductory note from Steve and Adam. Sue A. will sign the letter for the Society.

Next meeting – Conference call on September 30. Vicki will set up a conference call and webinar. Timing will be 11:00 to 3:00 central time.

Budget planning and Salaries – Vicki got off the call and the rest of the Board discussed her salary. They approved an increase in salary from \$11400 to \$15000.

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## ABOUT SWST

The SWST Newsletter is published six times a year by the Society of Wood Science and Technology, SWST, P.O. Box 6155 Monona, WI 53716-6155 PH: 608-577-1342 Fax: 608-467-8979.

Items for the Newsletter may be sent to Adam Taylor, at: [AdamTaylor@utk.edu](mailto:AdamTaylor@utk.edu)

The Society of Wood Science and Technology is a technical and professional organization for scientists and engineers working in academia, government, consulting and the forest-products industries and is dedicated to providing education and expertise regarding better ways to use and produce wood products.

E-mail: [Vicki@swst.org](mailto:Vicki@swst.org)

Web site: <http://www.swst.org>

### *Society of Wood Science and Technology*

President:	James Funck
Past President:	Jerrold Winandy
President Elect:	Susan Anagnost
Vice President:	Todd Shupe
Executive Director:	Vicki L. Herian
Directors:	Vikram Yadama (2008)
	Robert Bush (2008)
	Steve Quarles (2009)
	Sheldon Shi (2009)

Wood and Fiber Science Editor:	Frank Beall
Newsletter Editor:	Adam Taylor

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## POTENTIAL SWST VISITING SCIENTISTS

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email: mnacda@yahoo.com

**Specialty:** Termite biology and control.

**Will Discuss Formally and Informally:** Above specialty.

**ANDERSON, MATTHEW**, Wood Advisory Services, Inc. 3700 RT. 44, Suite 102, Millbrook, NY 12545 (845-677-3091) (FAX 845-677-6547) email: matt@woodadvisory.com

**Specialty:** Wood science consulting and applied research.

**Will Discuss Formally and Informally:** Assessment of wood frame buildings (destructive and nondestructive); Evaluations of marine and foundation pilings; Investigation of construction related deficiencies; Microbiological evaluations (wood fungi, mold, bacteria).

**ARMSTRONG, JAMES P.**, Associate Professor, West Virginia University, P.O. Box 6125, Morgantown, WV 26506-6125 (304-293-2941, ext. 2486) (FAX 304-293-2441)  
email: jarmstro@wvu.edu

**Specialty:** Wood anatomy and physical properties; Contemporary issues in forest resources and the wood products industry.

**Will Discuss Formally:** Various topics related to forest resources in U.S. history (see: [http://www.wdsc.caf.wvu.edu/otherwebs/wdsc\\_100.htm](http://www.wdsc.caf.wvu.edu/otherwebs/wdsc_100.htm).); Eco-terrorism--Its causes and impacts.

**Will Discuss Informally:** Any of the above; Education in WS&F; The enrollment problem in WS&T.

**BARNES, H. MICHAEL**, Thompson Professor of Wood Science and Technology, Forest Products Laboratory, Mississippi State University, Box 9820, Mississippi State, MS 39762-9820 (662-325-3056) (FAX 662-325-8126) email: mbarnes@cfr.msstate.edu

**Specialty:** Wood deterioration and preservation.

**Will Discuss Formally and Informally:** Wood Treatments, Treatment Mechanics, Wood Deterioration & Preservation and Composite Durability.

**BEALL, FRANK C.**, University of California Berkeley, College of Natural Resources, 1301 South 46th Street, Richmond, CA 94804 (510-665-3536) (FAX 510-665-3427)  
email: frank.beall@nature.berkeley.edu

**Specialty:** Nondestructive evaluation of wood and wood-based materials.

**Will Discuss Formally:** Ultrasonics for NDE; Future of NDE; Use of project value assessment to evaluate the value of a research project; Program at UCFPL.

**Will Discuss Informally:** All of the above plus most topics in wood physics; Research management; Organization of research papers; The patent process.

**BOWYER, JIM L.,** Director, Responsible Materials Program, Dovetail Partners, Inc., 528 Hennepin Avenue, Suite 202, Minneapolis, MN 55403 and Professor Emeritus, Department of Bioproducts and Biosystems Engineering, University of Minnesota, St. Paul, MN (651-490-7688) (FAX 612-333-0432)  
email: jimbowyer@comcast.net

**Specialty:** Responsible consumption, environmental implications of biomaterials and bioenergy production and use.

**Will Discuss Formally:** Environmental aspects of forestry, timber harvest and wood use; Environmental life cycle assessment; green building programs; U.S. environmental policy; Responsible consumption; The role of wood in the growing bio-energy industry; environmental education of children; The tropical deforestation problem.

**Will Discuss Informally:** Almost anything.

**BUSH, ROBERT,** Professor, Dept. of Wood Science and Forest Products, Virginia Tech, Blacksburg, VA 20461-0503 (540-231-8834) (FAX 540-231-8868) email: rbush@vt.edu

**Specialty:** Forest products marketing and management

**Will Discuss Formally:** The marketing of forest products in the U.S.; Strategic decision-making in wood-based industries; New forest products marketing research in the U.S. and the United Kingdom.

**Will Discuss Informally:** The above topics in addition to research to help improve student recruitment in Wood Science.

**BRYANT, BEN S.,** 4102-51st Ave., NE, Seattle, WA 98105 (206-522-6273) (FAX 206-522-6273)  
email: fibrobb@hotmail.com

**Specialty:** How we can use the 5 elements of wood science (the mechanical, physical, chemical and biological properties of wood and wood structure and anatomy) to solve problems in wood technology and critically analyze new products as well as new building systems.

**Will Discuss Formally:** in two or more illustrated seminars—for grad students and faculty preferably—with handouts and outlines. These will emphasize the importance of understanding wood anatomy and structure (including the submicroscopic nature of the cell wall).

**Will Discuss Informally:** Will ask students to try to critically analyze, in light of the above, at least 6 “new products” of my own invention and explain why more of them failed than succeeded to reach commercialization. (I’ll show samples of these and/or photographs and diagrams re how I used an understanding of wood science to develop these products. We will also discuss the reasons for failure and/or success of inventions coming from federal laboratories, academic laboratories and industry research departments (including machinery and resin suppliers), and summarize what general lessons can be learned from these case histories.

**CHEN, ZHANGJING, DR.,** 506 Alleghany Street, Blacksburg, VA 24060 (540-231-4962)  
(FAX 540-231-8868) email: chengo@vt.edu

**Specialty:** Wood drying.

**Will Discuss Formally and Informally:** Above specialty.

**CHOW, POO**, 2406 Burlison Drive, Urbana, IL 61801 (217-333-6670) (FAX 217-244-3219)  
email: pchow@uiuc.edu

**Specialty:** Physical, mechanical and chemical properties of wood-based materials.

**Will Discuss Formally:** Hardwood composites; Durability of wood for structural uses.

**Will Discuss Informally:** Durability of wood-base materials; Utilization of non-wood plant fiber.

**COOPER, PAUL**, Associate Professor, Forestry Department, University of Toronto,  
33 Willcocks Street, Toronto, Ontario, CANADA M5S 3B3 email: p.cooper@utoronto.ca

**Specialty:** Wood deterioration and protection.

**Will Discuss Formally:** Interaction with chemicals with the wood cell wall; CCA fixation;  
Environmental impacts of treated wood over the full life cycle; Recycling/reuse of treated wood.

**Will Discuss Informally:** Collaborative research; Graduate student recruitment;  
Teaching methods.

**CUTTER, BRUCE**, Associate Professor, University of Missouri, 124 A-BNR, Columbia, MO 65211  
(573-882-5191) (FAX 573-884-2636) email: cutterb@missouri.edu

**Specialty:** Tree growth, wood quality.

**Will Discuss Formally:** Eastern red cedar as a biogeochemical monitor; General tree growth;  
Wood quality; Agroforestry.

**Will Discuss Informally:** Eastern red cedar as a biogeochemical monitor; General tree growth;  
Wood quality; Behavior of wood in fire situations.

**DeBONIS, A. L.**, President, Wood Advisory Services, Inc., P.O. Box 1322, Millbrook, NY 12545  
(914-677-3091) (FAX 914-677-6547) email: ald@woodadvisory.com

**Specialty:** Wood engineering.

**Will Discuss Formally and Informally:** Design properties of lumber; Grading of structural lumber  
(visual and/or MSR); Reliability-based design; The role of consultants in the forest products field;  
Heavy timbers in residential and commercial construction; Hardwood structural lumber.

**DOLAN, J. DANIEL, Dr.**, Professor, Washington State University, P.O. Box 642910,  
Pullman, WA 99164-2910 (509-335-7849) (FAX 509-335-7632) email: jddolan@wsu.edu

**Specialty:** Timber engineering; Structural performance; Wood mechanics; Connections.

**Will Discuss Formally and Informally:** All specialties.

**FLYNN, KEVIN**, Flynn & Associates, Wood Science & Technology, P.O. Box 805,  
El Cerrito, CA 94530 (510-758-4686) (FAX 510-758-4893) email: k\_flynn@sbcglobal.net

**Specialty:** Wood performance; Problem analysis.

**Will Discuss Formally:** Durability; Degradation; Protection.

**Will Discuss Informally:** Any related issues.

**FUNCK, JAMES W.**, Manager, Lumber & Wood Science, Weyerhaeuser Company, WTC 2B2,

P.O. Box 9777, Federal Way, WA 98063-9777 (253-924-6826) (FAX 253-924-4239)

email: jim.funck@weyerhaeuser.com

**Specialty:** Optical and dielectric scanning for surface defects and roughness; Process modeling and simulation (lumber and plywood); Process control.

**Will Discuss Formally:** Above listed specialties.

**Will Discuss Informally:** Above listed specialties; Education - graduate and undergraduate.

**GARDNER, DOUGLAS J.**, University of Maine, 208 AEWB Building, Orono, ME 04469

(207-581-2846) (FAX 207-581-2074) email: douglas.gardner@umit.maine.edu

**Specialty:** Wood adhesion; Wood composites.

**Will Discuss Formally:** Wood adhesion; Wood surface chemistry; Wood/plastic composites.

**Will Discuss Informally:** Anything.

**GLASSER, WOLFGANG G.**, Professor of Wood Chemistry, Virginia Polytechnic Institute and State University, Department of Wood Science & Forest Products, 210 Cheatham Hall,

Blacksburg, VA 24061 (540-231-4403) (FAX 540-231-7664) email: wglasser@vt.edu

**Specialty:** Polymer and materials science aspects of forest products; Biobased materials from wood; Steam explosion.

**Will Discuss Formally:** Structure--property relationships of cellulose, xylan and lignin and their derivatives; Cellulosic thermoplastic polymers and composites; Lignin chemistry.

**Will Discuss Informally:** The Carbohydrate Economy: Technical, economic social .

**GOODELL, BARRY, Ph.D.**, University of Maine, Wood Science and Technology Dept., 5755 Nutting

Hall, Orono, ME 04469-5755 (207-581-2888) email: goodell@umit.maine.edu

**Specialty:** Biodeterioration; Bioprocessing and bioconversion of wood.; Nanotechnology: Producing carbon nanotubes from wood; Biocomposites and polymer matrix composites: ComPRIS.

**Will Discuss Formally:** Any of the above topics as well as an overview of Wood Utilization Research (WUR) Center activities at the University of Maine or nationally.

**Will Discuss Informally:** Any of the above. See <http://woodscience.umaine.edu/goodell/> for more information on my research, or <http://www.woodutilization.org> for information on WUR.

**GUPTA, RAKESH.**, Oregon State University, Department of Wood Science & Engineering,

114 RH, Corvallis, OR 97331 (541-737-4223) (FAX 541-737-3305)

email: rakesh.gupta@oregonstate.edu

**Specialty:** Wood engineering/Mechanics; Mechanical properties/behavior of wood.

**Will Discuss Formally:** Above listed specialties.

**Will Discuss Informally:** Above listed specialties.

**IFJU, GEZA**, Department of Wood Science & Forest Products, Virginia Polytechnic and State University, 210 Cheatham Hall, Blacksburg, VA 24060-0323 (540-231-8215)

(FAX 540-231-8868) email: ifju@vt.edu

**Specialty:** Quantitative wood anatomy; Structure-property relationships.

**Will Discuss Formally and Informally:** Above specialty.

**JAGELS, RICHARD**, Professor, Department of Forest Ecosystem Science, University of Maine, 5755 Nutting Hall, Orono, ME 04469 (207-581-2884) (FAX 207-581-2889)  
email: Richard.Jagels@maine.edu

**Specialty:** Wood structure; Wood quality.

**Will Discuss Formally:** Morphometric analysis applied to wood structure and wood quality studies; Wood analysis of wet-site archaeological finds.

**Will Discuss Informally:** Environmental influences on wood production and wood quality; Conservation of waterlogged wood; Technology transfer; Health hazards of wood.

**JELLISON, JODY**, Professor of Biology, University of Maine, 313 Hitchner Hall, Orono, ME 04469 (207-581-2995) (FAX 207-581-2969) email: jellison@umit.maine.edu

**Specialty:** Biodegradation of wood; Fungal metabolism.

**Will Discuss Formally:** Biological degradation of wood.

**Will Discuss Informally:** Interdisciplinary studies.

**KAMKE, FREDERICK A.**, Endowed Chair-JELD-WEN, Oregon State University, Dept. Wood Science & Engineering, 104 Richardson Hall, Corvallis, OR 97331 (541-737-8422) (FAX 541-737-3385) email: fred.kamke@oregonstate.edu

**Specialty:** Wood physics and composites.

**Will Discuss Formally:** Rotary dryers; Heat and mass transfer during flakeboard manufacture; Viscoelastic behavior of wood.

**Will Discuss Informally:** Heat and mass transfer in wood and wood products

**KIM, MOON J.**, Department of Forest Products, Mississippi State University, Mississippi State, MS 39762-9820 (662-325-3109) (FAX 662-325-8126)  
email: mkim@cfr.msstate.edu

**Specialty:** Wood Adhesives; UF resins; PF resins, PRF resins.

**Will Discuss Formally and Informally:** Above specialty.

**KLINE, D. EARL**, Assistant Professor, Virginia Polytechnic Institute and State University, Department of Wood Science and Forest Products, 210 Cheatham Hall, Blacksburg, VA 24061-0323 (540-231-8841) (FAX 540-231-8868) email: kline@vt.edu

**Specialty:** Industrial systems engineering of wood products processing and manufacturing; Operations research; Process control and automation.

**Will Discuss Formally:** Computer simulation and optimization methods; Machine vision applications in wood products processing; Artificial Intelligence applications in wood science.

**Will Discuss Informally:** Any of the above; Computer spreadsheet development for quality control and process control; Computer programming.

**LACHENBRUCH, BARBARA**, Associate Professor, Oregon State University, Dept. of Forest Products, 118 Richardson Hall, Corvallis, OR 97331 (541-737-4213) (FAX 541-737-3385)

email: barb.lachenbruch@oregonstate.edu

**Specialty:** Wood quality/silviculture interactions; Tree physiology.

**Will Discuss Formally:** Effects of tree biology on wood quality; Tree water relations and biomechanics as related to xylem structure.

**Will Discuss Informally:** Dual-career, women and family issues in grad school and academics.

**LAMB, FRED M.**, Fred Lamb Consulting, Inc., 325 Tomahawk Drive, Christiansburg, VA 24073 (540-231-7256) (FAX 540-231-8868) email: fml195@vt.edu

**Specialty:** Wood processing; Furniture manufacturing processes.

**Will Discuss Formally:** Furniture manufacturing technology; Industrial noise; Wood machining (Theory and Industrial Practices); Technology transfer (Theoretical Models and Current Practices).

**Will Discuss Informally:** Same as above; Lumber drying and wood deterioration.

**LITTLE, ROBERT L.**, Armstrong Wood Products, 498 Salt Street, Winston-Salem, NC 27101 (336-406-1746) (FAX 336-703-1808) email: r\_little@bellsouth.net

**Specialty:** Drying of hardwood lumber.

**Will Discuss Formally:** Automated control of hardwood dry kilns, Control of corrosion in dry kiln buildings, General drying practices for hardwood lumber, and Kiln design considerations.

**Will Discuss Informally:** General wood technology.

**LOFERSKI, JOSEPH R.**, Associate Professor, Virginia Polytechnic Institute and State University, Department of Wood Science and Forest Products, Brooks Forest Products Center, Blacksburg, VA 24061-0503 (540-231-4405) (FAX 540-231-8868) email: jloferski@vt.edu

**Specialty:** Wood engineering, Design of wood structures, Long-term performance of buildings, Historic buildings

**Will Discuss Formally or Informally:** Preservation of historic wood structures; Long-term performance of wood structures; Building systems; Deterioration of wood building materials.

**MALONEY, THOMAS M.**, Retired, Washington State University, Pullman, WA 99164-1806 (509-335-4916) (FAX 509-335-5077) email: tmaloney@pullman.com

**Specialty:** Composition and composite wood products.

**Will Discuss Formally and Informally:** Any aspect of particleboard, flakeboard, fiberboard, and composites; The board industry in other parts of the world.

**MARRA, ALAN**, Professor (retired, University of Massachusetts), 444 Old Montague Road, Amherst, MA 01002 (413-549-6910).

**Specialty:** Wood gluing; Reconstituted products.

**Will Discuss Formally:** Wood technology in the forest enterprise; Technology in the glue line.

**Will Discuss Informally:** R&D in WS&T; Fiddling with education.

**McLAIN, THOMAS E.**, Professor of Timber Engineering and Department Head, Oregon State University, 119 Richardson Hall, Corvallis, OR 97331-5751 (541-737-4257)

(FAX 541-737-3385) email: Thomas.McLain.oregonstate.edu

**Specialty:** Engineering properties of wood and wood-based materials; Design of wood structures; Structural mechanical connections; Role of wood in modern society; Forest products/wood science academic, extension and research program administration.

**Will Discuss Formally:** Why Wood Engineering? The role of wood in modern society; Integrating extension in research and teaching; Pacific Northwest forest conflicts.

**Will Discuss Informally:** Above topics and most anything else.

**MORRELL, JEFFREY J.**, Professor, Department of Forest Products, 230 Richardson Hall, Oregon State University, Corvallis, OR 97331-5751 (541-737-4222) (FAX 541-737-3385) email: Jeff.Morrell@oregonstate.edu

**Specialty:** Wood microbiology; Biodeterioration; Preservation.

**Will Discuss Formally:** Remedial control of decay in wood structures; Proper use of wood in adverse environments; OSU's cooperative pole research program.

**Will Discuss Informally:** Biodeterioration and biological interactions; Treatability of refractory wood species.

**O'HALLORAN, MICHAEL R.**, President, Western Wood Products Association, 522 SW 5th Street, Suite 500, Portland, OR 97204-2122 (503-224-3930) (FAX 503-224-3934) email: mohalloran@wwpa.org

**Specialty:** Wood engineering, mechanics, wood structures, codes, standards, research management.

**Will Discuss Formally:** Structural panel industry (Plywood, OSB, waferboard) status, markets, uses, standards, engineering design, LRFD design; Glued laminated timber; Structural composite lumber.

**Will Discuss Informally:** Trade associations; Structural panel topics; International markets; above topics.

**PARIDAH, MD. TAHIR.**, Associate Professor Dr., Universiti Putra Malaysia, Institute of Tropical Forestry and Forest Products, Serdang, Selangor, MALAYSIA 43400 (608-89472186) (FAX 608-89472180) email: parida\_introb@yahoo.com

**Specialty:** Bonding of tropical wood and non-wood materials; Kenaf as raw material for composite products.

**Will Discuss Formally:** On MOU between UPM and host University: 1) establish student exchange program; 2) R&D collaboration..

**Will Discuss Informally:** Post graduate studies at UPM.

**SHALER, STEPHEN**, Professor, University of Maine, 5755 Nutting Hall, Orono, ME 04469-5755 (207-581-2886) (FAX 207-581-2875) email: Steve.Shaler@umit.maine.edu

**Specialty:** Wood mechanics and composites.

**Will Discuss Formally:** Wood fiber properties; Computer and imaging applications; Experimental mechanics.

**Will Discuss Informally:** Hybrid wood composites.

**SHI, SHELDON QIANG**, Mississippi State University, Forest Products Department, Box 9820,

Mississippi State, MS 39762-9820 (662-325-3110) (FAX 662-325-8126)

email: sshi@cfr.msstate.edu

**Specialty:** Wood (Wood-plastics) composites, wood adhesion, moisture related properties of wood and wood composites.

**Will Discuss Formally:** Recycling of polymer fluff in wood composites; Contact angle determination of particles.

**Will Discuss Informally:** Moisture related properties of wood composites; Student recruitment issue.

**SMITH, BOB**, Associate Professor/Extension Specialist, Virginia Tech, 1650 Ramble Road, Mailcode 0503, Blacksburg, VA 24061 (540-231-9759) (FAX 540-231-8868)

email: rsmith4@vt.edu

**Specialty:** Forest products marketing; Professional sales in the forest products industry; Markets for wood in the U.S. infrastructure; Markets and perceptions of timber by engineers.

**Will Discuss Formally:** Marketing forest production; Perceptions of wood in the U.S. infrastructure; Educational needs in the forest products industry.

**Will Discuss Informally:** Timber bridges; Wood science and forest products at VPI; The Center for Forest Products Marketing and Management.

**SMITH, W. RAMSAY**, Arch Wood Protection, Inc., 3941 Bonsal Road, Conley, GA 30288 (404-362-3970) (FAX 404-363-8585) email: wrsmith@archchemicals.com

**Specialty:** International trade in forest products; Hardwood exports; Wood quality influences on product acceptance in foreign markets.

**Will Discuss Informally:** Graduate programs in wood science and in international trade; Views of the future of the forest products industry; other topics as desired.

**SMULSKI, STEPHEN, Ph.D.**, President, Wood Science Specialists, Inc., 453 Wendell Rd., Shutesbury, MA 01072 (413-259-1661) (FAX 413-259-1610) email: woodsci@crocker.com

**Specialty:** In-service performance of wood and wood-base products in residential, commercial and industrial construction; Preventing degradation of wood in service.

**Will Discuss Formally:** Moisture problems and durability of wood-frame houses; Forensic application of wood science and technology

**Will Discuss Informally:** Consulting opportunities in wood science and technology; Career opportunities in wood science and technology.

**STOKKE, DOUGLAS D.**, Assistant Professor, Iowa State University, Dept. of Nat. Res. Eco. & Mgt., 339 Science II, Ames, IA 50011-3221 (515-294-2115) (FAX 515-294-2995)

email: dstokke@iastate.edu

**Specialty:** Wood structure and properties, wood quality, light and electron microscopy.

**Will Discuss Formally:** Wood micro- and ultrastructure; Applications of microscopy to wood products research; Birdseye maple; Color analyses of wood products; SWST international visitation trip to China.

**Will Discuss Informally:** Microstructure of wood and polymer composites; Education in wood



science and technology.

**SUN, DR. RUN-CANG**, Beijing Forestry University, College of Material Science and Technology, Beijing, CHINA 100083 email: rcsun3@bjfu.edu.cn

**Specialty:** Straw/wood fiber chemistry.

**Will Discuss Formally and Informally:** Utilization of straw fiber as novel materials for industries.

**TANG, R. C.**, Professor, School of Forestry, Auburn University, Auburn, AL 36849-5418 (334-844-1088) (FAX 334-844-4221) email: tangrc@auburn.edu

**Specialty:** Mechanics and physics of wood and wood composites.

**Will Discuss Formally:** Long-term performance of wood composite structures; Creep models of wood composites under various environmental conditions; Elastic behavior of wood fibers; Dimensional stability and engineering reliability of wood composite structures; Duration of load behavior of lumber under changing environments; Effect of flake-cutting pattern and resin content on the mechanical and physical properties of flakeboard.

**Will Discuss Informally:** Undergraduate and graduate programs in forest products and wood science at Auburn; Mathematical models and simulation in forest and wood science.

**TEKLEYOHANNES, Anteneh Tesfaye**, University of British Columbia, Dept. of Wood Science, 2424 Main Mall, Vancouver, BC, CANADA V6T 1Z4 (604-822-8203) (FAX 604-822-9195) email: anteneht@interchange.ubc.ca

**Specialty:** Wood products engineering--basic wood processing, Sawmilling; Drying and preservation; Composite materials and furniture.

**Will Discuss Formally:** Environmental aspects of wood products.

**TICHY, ROBERT J.**, President, TM & I, 27013 Pacific Highway S, #179, Des Moines, WA 98198 (253-529-0900) (FAX 253-529-1326) email: bobtichy@msn.com

**Will Discuss Formally:** Nonresidential construction; Load and resistance factor design; Structural composites.

**Will Discuss Informally:** Above topics. Total quality concepts in R&D; Product and market development.

**VLOSKY, RICHARD P.**, Director & Professor of Forest Products Marketing, Louisiana State University, LA Forest Products Development Center, School of Renewable Nat. Res., Baton Rouge, LA 70803-6202 (225-578-4527) (FAX 225-578-4251) email: [vlosky@lsu.edu](mailto:vlosky@lsu.edu); website: [www.rnr.lsu.edu/lfpdc](http://www.rnr.lsu.edu/lfpdc)

**Specialties:** Forest Products Marketing; Forest-sector Business and Economic development; eBusiness; Certification; International Marketing Development. Will Discuss all specialties formally or informally

**WANG, XIPING**, USDA Forest Service, Forest Products Laboratory, 1 Gifford Pinchot Drive, Madison, WI 53726-2398 (608-231-9461) (FAX 608-231-9508) email: xwang@fs.fed.us

**Specialty:** Nondestructive evaluation (NDE) of wood; NDE of wood structural members/systems;

Wood drying.

**Will Discuss Formally:** NDE of trees, logs, lumber; NDE of structural members/systems.

**Will Discuss Informally:** Dry kiln control.

**WIEDENBECK, JANICE K.**, Project Leader, USDA Forest Service, Northeastern Forest Experiment Station, 241 Mercer Springs Road, Princeton, WV 24740 (304-431-2708)

(FAX 304-431-2772) email: [jwiedenbeck@fs.fed.us](mailto:jwiedenbeck@fs.fed.us)

**Specialty:** Secondary wood products processing; Manufacturing system simulation modeling; Production control.

**Will Discuss Formally:** Research pursuits and accomplishments of Princeton WV's work unit "Improved Processing Technology for Hardwoods" including gang-rip-first research and application programs; Rough mill simulation models; Yield improvement research; New hardwood lumber processing systems and technologies, etc.

**WINANDY, JERROLD**, 9227 Katzenbuechel Road, Mazomanie, WI 53560 (608-231-9316)

(FAX 608-231-9582) email: [jwinandy@wisc.edu](mailto:jwinandy@wisc.edu)

**Specialty:** Engineered wood composites; Durability; Composites as tool for sustainable forestry.

**Will Discuss Formally:** Composites; Preservation; Property effects; Enhancing durability.

**Will Discuss Informally:** Standards; Codes; Physical/mechanical properties.

**WILCOX, W. WAYNE**, 4830 Faber Road, Shingle Springs, CA 95682 (530-677-2280)

email: [wayne@wwwilcox.biz](mailto:wayne@wwwilcox.biz)

**Specialty:** Wood biodeterioration; Microscopical diagnosis of decay.

**Will Discuss Formally:** Nature and biology of wood decay; Wood-inhabiting fungi; Decay in wood structures due to design and construction deficiencies; Hawaii and pest control.

**Will Discuss Informally:** Teaching wood performance to architecture students.

**YAN, NING**, Assistant Professor, University of Toronto, Faculty of Forestry, 33 Wilcocks St., Toronto, Ontario CANADA M5S 3B3 (416-946-8070) (FAX 416-978-3834)

email: [ning.yan@utoronto.ca](mailto:ning.yan@utoronto.ca)

**Specialty:** Material science.

**Will Discuss Formally:** Wood composites performance; Adhesive-wood interactions; Wood/natural fiber plastic composites; Pulp and paper.

**Will Discuss Informally:** Durability and weathering of forest products.

**YOUNGS, ROBERT L.**, Professor, Department of Wood Science and Forest Products, VPI & SU, Brooks Forest Products Center, Blacksburg, VA 24061-0503 (540-231-7673)

(FAX 540-231-8868) email: [ryoungs@vt.edu](mailto:ryoungs@vt.edu)

**Specialty:** International forestry; Wood technology.

**Will Discuss Formally:** IUFRO and forest products research; Forest products and international development; Drying stresses in wood.

**Will Discuss Informally:** Any of the above; New developments in forest products; World forestry.

**ZERBE, JOHN I.**, 3310 Heatherdell Lane, Madison, WI 53713 (608-274-0714)

email: jzerbe@fs.fed.us

**Specialty:** Wood as a source of energy and petrochemical substitutes; Use of wood to combat global climate change.

**Will Discuss Formally:** Conversion of wood to improved fuels; Wood as a raw material for alcohol production; Reduction of atmospheric carbon dioxide through wood utilization by conservation, sequestration and substitution.

**Will Discuss Informally:** History of the forest resource as a source of fuel; Current thinking on wood as a source of energy; Impact of energy usage on the future of our economy; Impacts of atmospheric carbon dioxide increase.