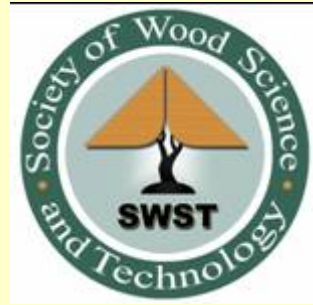


# SWST Newsletter

~ February 2007 ~



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## **Note from the Editor**



The SWST invites you to submit proposals for visits to any Canadian or US forest products institute, university, or corporation under the visiting scientist program. Application details can be found on the SWST website: <http://www.swst.org/vsp.html> A list of the [potential visiting scientists](#) can be found at the end of this newsletter.

Please send your comments, and content for future editions of the Newsletter, to me at [AdamTaylor@utk.edu](mailto:AdamTaylor@utk.edu). The next edition will come out in April.

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## **LSU AgCenter Gets \$790,000 Grant for Research on Natural Composites**

The grant is one of 17 given nationally for biomass research, development and demonstration projects, said Dr. Qinglin Wu, project leader in the School of Renewable Natural Resources.

The LSU AgCenter grant is for research designed to enhance creative approaches in developing next generation advanced technologies. The project aims to find technologically feasible and economically acceptable solutions for using wood and other natural fibres together with commingled waste plastics, Wu said.

"Because of a continuing proliferation of plastic resin types, the recycling industry cannot sort out all the contaminants – making more plastic waste," Wu said. "Combining waste plastics with natural fibres to produce high-quality industrial products provides a prospective solution for using biomass resources and leading to new economic development in an environmentally friendly manner."

The resulting fibre-reinforced plastic composites could be used to make weather-resistant products such as roofing shingles, patio furniture, decking and other structural materials. Other uses could be for bumpers, dashboards and similar components for automobiles and other power equipment.

Wu said the grant will allow the research to move to a larger scale by investing in machines that can make extruded or molded fiber-plastic materials in larger sizes and quantities. "We want to create a process that can be commercialized," Wu said.

The researchers also are looking at nano particles – such as nanoclays – to improve the bonds between the plastics and the natural fibres. "The polymer molecules can then penetrate into the layered clays to form stronger bonds, leading to enhanced composite properties," Wu said. "The bond between wood and plastic is not a true chemical bond but a physical bond. We're looking at nano technology using nanoclays with a new generation of coupling agents to create chemical bridges or bonds between them. The agents attach with chemical bonds to both the plastics and the wood fibres. Then their chemical properties create a stronger composite material."

For more information, visit <http://www.netcomposites.com/news.asp?4144>

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## **International Academy of Wood Science (IAWS) Meeting, *Wood science and technology in 2100*, Melbourne, Australia, November 13 – 16, 2006**

Frank Beall, University of California at Berkeley; Barbara Lachenbruch (formerly Gartner), Oregon State University; Bob Myer, SUNY College of Environmental Science and Forestry; and Howard Rosen, US Forest Service joined 40 other participants from around the world to represent the United States at the 2006 Academy Meeting in

Melbourne, Australia. Ted Hillis, one of the earliest fellows of IAWS, was honored at the meeting and presented the Academy Lecture on “Wood Science in the Future.” Twenty two other talks discussed various aspects of future trends in wood science and forest products.

The 2007 meeting will be in Kyoto, Japan from October 25-27, just before the IUFRO All Division 5 conference in Taipei, Taiwan.



*Several of the participants at the meeting venue, St. Hilda's College, including all four United States attendees.*

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### **SWST Membership Cards**

We now have SWST Membership Cards. If you have paid your 2007 dues and would like one, please contact the Executive Office:

Victoria L. Herian  
Executive Director  
SWST  
One Gifford Pinchot Drive  
Madison, WI 53726  
Phone: 608-231-9347  
Fax: 608-231-9592  
E-mail: vherian@fs.fed.us



**Society of Wood Science and Technology**  
One Gifford Pinchot Drive, Madison, WI 53726-2398  
PH: 608-231-9347  
FAX: 608-231-9592  
Website: [www.swst.org](http://www.swst.org)

**Your Name**  
**ID #001138**

**Member in Good Standing – 2007**

*Victoria L. Heron*  
Executive Director

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### **International Wood Composites Symposium**

The 41<sup>st</sup> International Wood Composites Symposium & Technical Workshop will take place March 26-28, 2007 at the Red Lion Hotel in Seattle, WA.

More Information & Program Agenda at [www.woodsymposium.wsu.edu](http://www.woodsymposium.wsu.edu)

Or contact:

Vikram Yadama  
Assistant Research Professor and Extension Specialist  
Wood Materials & Engineering Laboratory  
Washington State University  
509-335-6261

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### **Call for Papers**

#### **International Panel Products Symposium**

The International Panel Products Symposium (IPPS) will be held this October 2007. If you would like to submit your paper please ensure you return it to us by 28th February 2007.

Please feel free to contact our team should you require any further information or assistance.

Best Regards,  
BC - IPPS Team

<http://www.bc.bangor.ac.uk/ipps/index.html>

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**Assistant/Associate Professor Packaging Science-Wood Science**  
**DEPARTMENT OF WOOD SCIENCE AND FOREST PRODUCTS**  
**Structural Design of Wood Pallets, Containers, and Packaging Systems**

The Department of Wood Science and Forest Products at Virginia Tech is seeking applications for the position of assistant or associate professor in the area of solid wood packaging science.

**Position Description:** The tenure-track position will be at the Assistant or Associate Professor level and will be an academic year appointment. The position will be split approximately as 60% applied and/or fundamental research and 40% teaching. The department will provide summer salary for the first year of the appointment and a start up package to the successful candidate. The successful candidate is expected to develop an internationally recognized research and graduate education program in structural design of wood pallets, containers, and packaging systems from renewable resources, with major focus on wood and woody fiber resources. Research areas to include, but not limited to, development of technologies which improve distribution packaging and unit load performance efficiencies with a focus on the design of wood fiber based packaging: pallets, wood crates and containers. The successful candidate will work cooperatively with the staff and facilities of the Center for Unit Load Design ([www.unitload.vt.edu](http://www.unitload.vt.edu)), and the external advisory board of the Center. Service responsibilities will include consulting with members of the Center for Unit Load Design as well as participating in workshops, short courses, and other outreach programs of the Department. Teaching responsibilities will include two undergraduate courses and one graduate course in the related areas of expertise. Opportunities to develop new courses in the area of expertise will be encouraged. The position will be in support of our new undergraduate degree option in packaging science, and the new packaging science minor now available to all students on the Virginia Tech campus. The successful candidate will be expected to obtain extramural funding, publish in refereed journals, participate in local, regional and national meetings of professional societies, serve as major professor for graduate students, and serve on graduate committees. Cooperation and collaboration with other scientists in the department and across our campus is expected. The position reports administratively to the Head of the department.

**Qualifications:** Candidates will have a Ph.D. in wood science, mechanical engineering, packaging science, or closely allied fields. The successful candidate must be able to communicate effectively with people at all levels in university, industry and other private sectors.

**Preferred Qualifications:** In addition to the above required qualifications, the candidate would have history of collaboration with colleagues on and off campus, experience reaching out to business, industry and government agencies and ability to be a good departmental, college, and university citizen; collegiality.

**Application:** Application materials should include a current vitae, official transcripts for all degrees at all institutions, the names, addresses, phone numbers and email addresses of five professional references. The applicant should address his or her interest in the position by preparing a written statement of interest that addresses the matching of personal skills and education with the position description. All materials must be submitted electronically with exception of official transcripts, which must be mail. Submit on-line at [www.jobs.vt.edu](http://www.jobs.vt.edu), referring to posting No. 061339. Review of candidate files will begin February 22, 2007 and continue until a suitable candidate is identified.

**Inquiries:** Dr. Paul M. Winistorfer, Professor and Department Head  
Department of Wood Science and Forest Products  
College of Natural Resources, Virginia Tech Mail Code 0323  
Blacksburg, VA 24061  
Phone 540-231-8853 or email [pstorfer@vt.edu](mailto:pstorfer@vt.edu)

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### **Graduate Fellowships in Nanoscale Engineering of Lignocellulosic Materials**

The Pennsylvania State University invites prospective Ph.D. students to apply for prestigious graduate fellowships in the fields of Biochemistry & Molecular Biology, Forest Resources, Agricultural & Biological Engineering, Geosciences, and Materials Science & Engineering. These candidates will study aspects of cellulose assembly and disassembly for innovative, value-added applications. Participants will receive free tuition plus an annual stipend of \$24,000/year for 3 years, and will be a part of an exciting new biomaterial research program at Penn State. Interested candidates are encouraged to send a statement of interest, transcript, and a resume (with the names of 3 references) to Dr. Nicole Brown ([NRB10@PSU.EDU](mailto:NRB10@PSU.EDU)). Applicants must be U.S. Citizens. Females and minorities are encouraged to apply. Fellows should be prepared to begin the Ph.D. program at Penn State in the Fall of 2007 or Fall of 2008.

#### **Potential Research Projects**

For more information, visit: <http://www.nanobioresources.psu.edu/>

- Nanotechnology in wood and paper coatings
- Biomedical tissue scaffolds
- Materials assembly using protein-based motors
- Innovative uses of cellulose binding domains
- Understanding molecular aspects of cellulose assembly
- Bioenergy from cellulosic materials
- Theoretical molecular modeling of cellulose interactions

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SWST SNAPSHOT



<b>Membership as of February 8, 2007</b>			
Full members - Paid	227	Full members – Not paid	70
Student members - Paid	28	Student members – Not paid	40
Retired members - Paid	44	Retired members – Not paid	5
W&FS Subscriptions - Paid	164	W&FS Subscriptions – Not Paid	68
<b>Financial</b>			
Savings	\$53,211.97	Investments	\$129,669.56
Checking Account	\$91,001.15		

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## ABOUT SWST

The SWST Newsletter is published six times a year by the Society of Wood Science and Technology, One Gifford Pinchot Drive, Madison, WI 53705, USA.

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.

Phone: (608) 231-9347

Fax: (608) 231-9592

E-mail: [vherian@fs.fed.us](mailto:vherian@fs.fed.us)

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

### *Society of Wood Science and Technology*

President: Paul M. Smith  
 Past President: Audrey Zink-Sharp  
 President Elect: Douglas Gardner  
 Vice President: James P. Armstrong  
 Executive Director: Vicki L. Herian  
 Directors: Robert Beauregard (2006)  
 Jerry Winandy (2006)  
 Donald A. Bender (2007)  
 Alain Cloutier (2007)

*Wood and Fiber Science*

Editor: Geza Ifju  
Associate Editor: Audrey Zink-Sharp  
Editorial Assistant: Carol B. Ovens

*SWST Newsletter*

Editor: Adam Taylor

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**WOOD AND FIBER SCIENCE REPORT**

February 19, 2007

January Issue (printed)	18 manuscripts
Under review	21
Under revision by authors	12
Accepted	25
Rejected	9
Withdrawn	2
In process in Ed. Office	<u>7</u>
Total	94

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**2005-2006**

**LIST OF POTENTIAL SWST VISITING  
SCIENTISTS**

**ANDERSON, MATTHEW.**, 3700 RT. 44, Suite 102, Millbrook, NY 12545 (845-677-3091)  
(FAX: 845-677-6547) email: m.anderson@verizon.net

**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%20100.pdf>); Eco-terrorism--Its causes and impacts.



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

**BABIAK, MARIAN**, Professor, Dr.h.c. RNDr. PhD, Technical University in Zvolen, T.G.Masaryka 24, 96053 Zvolen, Slovak republic (+421 45 5206 350) (Fax: +421 45 5330027)  
email address [babiak@vsld.tuzvo.sk](mailto:babiak@vsld.tuzvo.sk)

**Specialty:** Wood Structure and Properties

**Will Discuss Formally:** Wood Physics and Mechanics

**Will Discuss Informally:** Wood – Water Relations; Rheology of Wood; Transport Processes in Wood.

**BARNES, H. MICHAEL**, Professor, 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](mailto:mbarnes@cfr.msstate.edu)

**Specialty:** Wood deterioration and preservation.

**Will Discuss Formally and Informally:** Wood science education; wood preservation.

**Will Discuss Informally:** Same as above.

**BOWYER, JIM L.**, Professor, Department of Bio-based Products, University of Minnesota, 2004 Folwell Avenue, St. Paul, MN 55108 (612-624-4292) (FAX: 612-625-6286) email: [jbowyer@umn.edu](mailto:jbowyer@umn.edu)

**Specialty:** Environmental implications of biomaterials and bioenergy production and use.

**Will Discuss Formally:** Environmental aspects of forestry, timber harvest and wood use; The role of wood in the growing U.S. bio-energy industry; The Wood Science profession - Past, Present & Future; Environmental life cycle analysis; Life cycle inventory; Environmental education of children; The tropical deforestation problem.

**Will Discuss Informally:** Almost anything.

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**BUSH, ROBERT**, Professor, Dept. of Wood Science and Forest Products, Virginia Tech, Blacksburg, VA 20461-0323 (540-231-8834) (FAX 540-231-8176) email: [rbush@vt.edu](mailto:rbush@vt.edu)

**Specialty:** Forest products marketing and management

**Will Discuss Formally:** The marketing of forest products; Strategic planning and decision-making in wood-based industries; Forest products marketing research.

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

**Bryant, Ben S., Professor Emeritus**, CEO of Appropriate Technology Briquettes, Inc. (ATBI). Seattle WA, (206-522-6273) email: [atbi@comcast.net](mailto:atbi@comcast.net)

**Specialty:** Wood science and physics.

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

**CHEN, ZHANGJING**, 506 Alleghany Street, Blacksburg, VA 24060, (540-552-8592) email: [chengo@vt.edu](mailto:chengo@vt.edu)

**Specialty:** Wood drying.

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

**CHOW, POO**, Professor of Wood Science, Department of Forestry, University of Illinois, W-503 Turner Hall, 1102 South Goodwin, Urbana, IL 61801 (217-333-6670) (FAX: 217-244-3219)  
email: [p-chow@unic.edu](mailto:p-chow@unic.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**, Professor, Forestry Department, University of Toronto, 33 Willcocks Street, Toronto, Ontario, CANADA M5S 3B3  
email: [p.cooper@utoronto.ca](mailto:p.cooper@utoronto.ca)

**Specialty:** Wood deterioration and protection.

**Will Discuss Formally:** Interaction with chemicals with the wood cell wall; CCA and Copper amine 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**, Professor, University of Missouri, 203 A-BNR, Columbia, MO 65211  
(573-882-2744) (FAX: 573-882-1977) email: cutterb@missouri.edu

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

**Will Discuss Formally:** General tree growth; Wood quality; Agroforestry; Fuel loading in oak-hickory forests.

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

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

**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.

**Elder, Thomas**, Research Forest Products Technologist, USDA-Forest Service, Southern Research Station, 2500, Shreveport Highway, Pineville, Louisiana, 71360 (318-473-7008) (Fax: 318-473-7246) email: telder@fs.fed.us

**Specialty:** Wood chemistry.

**Will Discuss Formally:** Atomic force microscopy of wood and fiber surfaces; time-domain NMR of wood; fiber modification.

**Will Discuss Informally:** Molecular modeling of the chemical constituents of wood.

**FLYNN, KEVIN**, University of California Forest Products Lab., 1301 South 46th Street, Richmond, CA 94804 (510-215-4242) (FAX: 510-215-4299) email: [kevin.flynn@ucop.edu](mailto:kevin.flynn@ucop.edu)

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

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

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

**FUNCK, JAMES W.**, Associate Professor, Oregon State University, Forest Products Department, 134 Richardson Hall, Corvallis, OR 97331-5751 (541-737-4207) (FAX: 541-737-3385)  
email: Jim.Funck@orst.edu

**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, Advanced Engineered Wood Composites Center, Department of Forest Management, 231 AEWB Building, Orono, ME 04469 (207-581-2846) (FAX: 207-581-2074)  
email: doug\_gardner@umenfa.maine.edu

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

**Will Discuss Formally:** Wood adhesion; Wood surface chemistry; Wood/plastic Composites; Wood Science Education.

**Will Discuss Informally:** Anything.

**LACHENBRUCH, BARBARA**, Professor, Oregon State University, Dept. of Wood Science and Engineering,

118 Richardson Hall, Corvallis, OR 97331 (541-737-4213) (FAX: 541-737-3385)

email: Barbara.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.

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**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 .

**GREEN, DAVID W.**, Engineer, Forest Products Laboratory, One Gifford Pinchot Drive, Madison, WI 53726 (608-271-9261) (FAX: 608-231-9592) email: dwgreen@fs.fed.us

**Specialty:** Engineering properties of wood.

**Will Discuss Formally:** In-grade testing of lumber; Effect of moisture content on lumber properties; Engineering properties of wood research at the U.S. FPL; Structural properties of hardwoods.

**Will Discuss Informally:** Almost anything; The research environment -industry vs. university vs. government.

**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.

**HAMMETT, A.L.**, Associate Professor, Dept. of Wood Science & Forest Products, Virginia Polytechnic and State University, 210 Cheatham Hall, Blacksburg, VA 24061-0323 (540-231-2716) (FAX: 540-231-8176) email: himal@vt.edu

**Specialty:** Forest products marketing.

**Will Discuss Formally:** International issues related to forestry and forest products.

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

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

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

**Will Discuss Informally:** Interdisciplinary studies.

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**KAMKE, FREDERICK A.**, JELD-WEN Professor of Wood-Based Composite Science, Dept. Wood Science and Engineering, Oregon State University, 104 Richardson Hall (541-737-8422)(FAX: 541-737-3385)

email:fred.kamke@oregonstate.edu

**Specialty:** Wood-based and composites.

**Will Discuss Formally:** Heat and mass transfer during hot-pressing; adhesive penetration and distribution.

**Will Discuss Informally:** Composite processing and performance.

**(Newly added) Kasal, Bo**, Professor and Hankin Chair, Department of Civil and Environmental Engineering, Department of Architectural Engineering, Director of Research, Pennsylvania Housing Research Center, 219 Sackett

Building, University Park, PA 16802 (814 865 2341) (Fax: 814 863 7304) email: [buk13@psu.edu](mailto:buk13@psu.edu)

**Specialty:** Residential construction; Wood engineering.

**Will Discuss Formally:** Residential structures in natural disasters; in-situ evaluation of historic wood buildings; performance of laminated wood frames in earthquakes.

**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](mailto:mkim@cfr.msstate.edu)

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

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

**KODZI Jr, EMMANUEL T.**, Ph.D. CANDIDATE, PURDUE UNIVERSITY, 175 MARSTELLAR ST., WEST LAFAYETTE, IN 47907 (765-496-6127) (Fax: 765-496-1344) email: [ekodzi@purdue.edu](mailto:ekodzi@purdue.edu)

**Specialty:** MASS CUSTOMIZATION IN FURNITURE MANUFACTURING COMPANIES.

**Will Discuss Formally:** Linkages between Mass Customization and Competitiveness.

**Will Discuss Informally:** Critical Enablers of Mass Customization for Wooden Furniture Manufacturing Scenarios.

**LITTLE, ROBERT L.**, Ph.D., R.F. Senior Project Manager, Weyerhaeuser Company. Wood Science and Engineering R&D Mail Stop: WTC 2B2 P.O. Box 9777 Federal Way, WA 98063-9777 Office: (253)924-4269

Mobile: (336)404-2132

**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)

**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.

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**MATER, JEAN Dr.**, Vice President, Forest Products Marketing Division, Mater Engineering, 101 SW Western Blvd., Corvallis, OR 97333 (541-753-7335) (FAX 541-752-2952)

email: [Mater@mater.com](mailto:Mater@mater.com)

**Specialty:** Marketing forest industry policies; Forestry relations to public; Forest industry trends; Coordination of marketing and production; Forest industry and environment; Certification problems and opportunities.

**Will Discuss Formally:** All of the above.

**Will Discuss Informally:** Role of women in forest industry; Changing role of NIPFs.

**McLAIN, THOMAS E.**, Professor and Department Head, Department of Wood Science & Engineering, Oregon State University, 119 Richardson Hall, Corvallis, OR 97331-5751 (541-737-4224);

<http://woodscience.oregonstate.edu> (FAX: 541-737-3385) email: [Thomas.McLain@oregonstate.edu](mailto:Thomas.McLain@oregonstate.edu)

**Specialty:** Role of wood in a global economy; SWST Accreditation Standards; strategic planning for forest products/wood science programs; academic, extension and research program administration challenges.

**Will Discuss Formally:** Recruiting students into WST programs; Introductory courses in FP/WST; SWST Accreditation Standards; The changing roles of wood in modern society; Integrating extension into a research and teaching program; 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 (541-7737-4222) (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.

**No, Byung Young, PhD**, Resin Chemist, Hexion Specialty Chemicals, Inc. R&D lab, 610 south 2<sup>nd</sup> street, Springfield, OR 97477 (541-741-6663) (Fax: 541-747-3868) email: Byung.YoungNo@hexionchem.com

**Specialty:** UF and MUF resins for wood-based composite.

**Will Discuss Formally:** Hydrolysis resistant UF and MUF resins for particleboard and medium-density fiberboard.

**Will Discuss Informally:** UF and MUF resins for wood-based composites.

**O'HALLORAN, MICHAEL R.**, President, Western Wood Products Association, 522 SW 5th Street, Suite 500, Portland, OR 97204-2122 (503-224-3930) 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.

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**PATTERSON, DAVID W.**, Research Professor, Forest Products Utilization, Arkansas Forest Resources Center, P.O. Box 3468, Monticello, AR 71656 (870-460-1652) (FAX 870-460-1092) email: pattersond@uamont.edu

**Specialty:** Tree weights, Bulk Density, Small Log Utilization

**Will Discuss Formally:** Bulk Density Studies, Weight Scaling Factors, Inside Out Beams, Open Web Beams, Tree Growth and Wood Quality

**Will Discuss Informally:** Trip to Russia, 3 Trips to Guinea in West Africa, Old War Stories

**RICE, WILLIAM W.**, Professor of Wood Science and Technology (retired), 137 Pine Street, Amherst, MA 01002 (413-549-0795) (FAX: 413-549-8010) email: wrice@forwild.umass.edu

**Specialty:** Wood drying; Wood machining.

**Will Discuss Formally:** Quality control - log to rough mill; Predriers, kiln equipment and operation.

**Will Discuss Informally:** Wood technology program; Extension activities; New England Kiln Drying Association.

**ROSS, ROBERT J.**, Supervisory Research Engineer, Forest Products Laboratory, One Gifford Pinchot Drive, Madison, WI 53726 (608-231-9221) (FAX: 608-231-9592) email: rjross@fs.fed.us

**Specialty:** Wood engineering, nondestructive testing, structural composite

**Will Discuss Formally:** Nondestructive testing; Structural composites; Wood engineering.

**Will Discuss Informally:** Vitality of SWST and wood engineering; Educating wood engineers for the industry.

**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**, Assistant Professor, Box 9820, Mississippi State, MS 39762-9820 (662-325-3110) (FAX: 662-325-8126) email: [sshi@cfr.msstate.edu](mailto: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.

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**SMITH, BOB**, Associate Professor/Extension Specialist, Virginia Tech, 1650 Ramble Road, Mailcode 0503, Blacksburg, VA 24061 (540-231-5876) (FAX 540-231-8868) email: [rsmith4@vt.edu](mailto: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**, Global Research Manager, Arch Wood Protection, Inc., 3941 Bonsal Road, Conley, GA 30288 (404-362-3970) (FAX: 404-363-8585) email: [wrsmith@archchemicals.com](mailto: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](mailto: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.

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

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**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](mailto: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; Sawmilling; hydrothermal treatment of wood; and wood composite materials technology.

**VLOSKY, RICHARD P.**, Ph.D., FIWSc., Director, Louisiana Forest Products Development Center and Professor, Forest Products Marketing School of Renewable Natural Resources, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. Phone: (225) 578-4527; Fax: (225) 578-4251; Cell: (225) 223-1931; Email: vlosky@lsu.edu; URL: www.rnr.lsu.edu/lfpdc

**Specialty:** Marketing; Forest Sector-Based Economic development.

**Will Discuss Formally:** Marketing Principles, Domestic and international wood products marketing and business development; Technology applications to improve business competitiveness; eBusiness, eCommerce; Marketing applications to economic development; Environmental certification and marketing; Value-added product opportunities.

**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

**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**, Project Leader-Engineered composites. USDA Forest Service, Forest Products Laboratory, One Gifford Pinchot Dr., Madison, WI 53726-2398 (608-231-9316) (FAX: 608-231-9582) email: 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.

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**Wolcott, Michael P.**, Professor, Wood Materials and Engineering Lab, Civil and Environmental Engineering, Washington State University, Pullman, WA 99164-1806 (509.335.6392) (Fax: 509.335.5077)

**Specialty:** Wood-based composite materials; viscoelasticity; adhesion.

**Will discuss formally:** Composites design, manufacture, and application; Bioproducts and Nanotechnology in the wood industry.

**Will discuss informally:** Commercial developments; Building products trends; Adhesion.

**Yadama, Vikram**, Asst. Professor, Wood Materials and Engineering Lab, Civil and Environmental Engineering, Washington State University, Pullman, WA 99164-1806 (509.335.6261) (Fax: 509.335.5077), vyadama@wsu.edu

**Specialty:** Wood-based composite materials; viscoelasticity; adhesion.

**Will discuss formally:** Wood engineering and design, composites and their applications.

**Will discuss informally:** Building developments and construction technology.

**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

**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.

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

**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.

**Zhang, Jilei**, Associate Professor, Forest Products Laboratory, Mississippi State University, Box 9820, Mississippi State, MS 39762 (662-325-9413)

(FAX: 662-325-8126) email: jzhang@cfr.msstate.edu

**Specialty:** Furniture engineering.

**Will Discuss Formally:** Strength design of furniture; furniture performance tests and standards; evaluation of wood and wood composites as furniture stock; computer-aided to furniture design and structural analysis.

**Will Discuss Informally:** Computer-aided to furniture design, analysis, and manufacture; furniture package design and testing; nondestructive evaluation of furniture structural performance.