SWST Newsletter ~ June 2008 ~

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Composites Symposium in New Zealand Intl Panel Products Symposium in Finland Wood Composite Meeting in Maine **RFP** - Bioadhesion **Positions** Prof at Laval in 2nd Wood Processing MSc at UBC in Wood Preservation PhD at UBC in Wood Drying WVU Asst. Prof – Processing and Marketing Lumber Operations Manager SWST Jim Bowyer visits MSU Jerry Winandy visits WVU About SWST Executive Director's Report List of SWST Visiting Scientists

Note from the Editor

A reminder that the 2008 SWST Annual Meeting will be November 10-12th in Chile. Please visit <u>http://www.swst.org/meetings/AM08/about.html</u> for more information

Please send items for the August SWST Newsletter to me by the end of July. AdamTaylor@utk.edu

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SWST 51ST ANNUAL CONVENTION CONCEPCIÓN, CHILE

The first SWST international meeting outside of North America will be held on November 10-12, 2008 in Concepción, Chile at the Universidad del Bío-Bío, a cosponsor and co-organizer of the meeting. <u>Click here</u> to see other sponsors.

There will be four sessions during the first two days dealing with (1) Timber Engineering, (2) Global Trade in Forest Products, (3) Wood Quality: Challenges in the 21st Century, and (4) Advanced Processing of Timber in the 21st Century. Each session has a North American and South American Co-Chair. The last day of the Convention will be a day-long tour of the area and the forest products industry, beginning with a visit to Nueva Aldea.

EXPOCORMA has meetings November 11-15, but is a separate convention. See <u>4th International Meeting on Forestry, Wood Products, Pulp and Paper</u>. For more information on the SWST meeting: <u>http://www.swst.org/meetings/AM08/about.html</u>

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STUDENT TRAVEL GRANTS FOR THE 2008 ANNUAL CONVENTION

The Society of Wood Science and Technology (SWST) is pleased to announce a Student Travel Grant Program to provide partial support for travel expenses to attend the 2008 SWST Annual Convention in Concepción, Chile, November 10-12. Students selected for support under this grant program will be expected to present a research poster at the Convention. Each grant will consist of an award of \$500 with up to ten grants to be awarded.

Application procedure: Any full-time student (undergraduate or graduate) enrolled in a University degree program in forest products, wood science, or closely related field may apply. Applicants must be Student Members of the Society of Wood Science and Technology upon application and receipt of the grant. Non-members may apply by submitting a membership application and dues at the time of application. In addition, each student is asked to pre-register for the Annual Convention

\$50. and the student registration fee of See to pay http://www.swst.org/meetings/AM08/registration.html for details. Each application will consist of a completed SWST Student Travel Grant Application Form and an abstract of 250 words or less describing the research topic to be presented at the Annual Convention. Abstracts will be evaluated for research hypothesis, scientific merit, organization and clarity of expression. Applications will be reviewed by the SWST Visiting Scientist Committee, with recommendations for funding made to the Executive Board of the Society.

Student posters may also be entered into SWST's annual Student Poster Competition for an opportunity to win an additional \$125, \$250, or \$500. Note that the Student Poster Competition is distinct from the Student Travel Grants program. See http://www.swst.org/meetings/AM08/StudentPoster.html for details.

Applications for Student Travel Grants must be received by the SWST Office in Madison by 5 p.m. Central Daylight time June 15, 2008. Applications will be reviewed by July 15, with recommendation to the Executive Board by July 30. It is anticipated that grant awards will be announced August 15, 2008. Grants will be made on a cost-reimbursement basis following the Annual Convention. Awardees of Student Travel Grants will receive funds upon submission of travel expense receipts to Vicki Herian, Executive Director, SWST, One Gifford Pinchot Drive, Madison, WI 53726-2398 USA, email vicki@swst.org.

Student Travel Grant Program Application Form Society of Wood Science and Technology 2008 Annual Convention November 10-12 Concepción, Chile

Name:
Address1:
Address2:
City:
State/Province:
Zip/Postal Code: Country:
Phone:
Email address:
University:
Department:
Degree Program:
Degree sought (B.S., M.S., Ph.D., other):
Are you a student member of SWST? YES NO
<u>Note</u> : Only Student Members of SWST are eligible for Student Travel Grants. If you are not a member, you may apply at the time of application for a travel grant to ensure consideration of your request. Annua student dues are \$25 U.S (\$5 for students from Developing Countries). See <u>http://www.swst.org/memapponline.html</u>
Have you registered for the SWST Annual Convention? YES NO
<u>Note</u> : In order to be eligible for a Student Travel Grant, you must register for the Annual Convention, gi a poster, and pay the student registration fee of \$50. See <u>http://www.swst.org/meetings/AM08/registration.html</u>
Academic Advisor/Major Professor:
Advisor/Professor's Email address:
Poster Title:
Advisor/Professor's Email address: Poster Title:

PLEASE ATTACH a 250-word Abstract of your research poster for presentation in Concepción. Your abstract will be

evaluated for research hypothesis, scientific merit, organization and clarity of expression. This evaluation will be used as the basis for selection of Student Travel Grant awards.

Applications must be received by the SWST Office, One Gifford Pinchot Drive, Madison, WI 53726 phone: 608-231-9347, Fax: 608-231-9592, email: <u>vicki@swst.org</u> by 5 p.m. Central Daylight time, June 15, 2008

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NATIONAL RESEARCH NEEDS ASSESSMENT (NRNA)

2008 National Research Needs Assessment in Wood Science and Technology

When June 25, 2008, immediately following the <u>FPS</u> Annual Meeting

Where St. Louis, MO, USA

Why To develop a unified and prioritized agenda for wood science and technology research needs and opportunities among industry, universities, and government agencies. A similar workshop will be conducted by the American Society of Civil Engineers in May at its 2008 World Structures Congress, Vancouver, BC, Canada. Information from both workshops will be assimilated into a cohesive research needs assessment.

Background: The primary motivation for the National Research Needs Assessment is to create a unified vision of research needs in wood science and technology (WS&T). This activity has been previously conducted under the auspices of a variety of organizations, especially <u>NAPFSC</u> and then <u>NAUFRP</u>, but has languished in recent years. To counter that loss, <u>ASCE</u> members decided to conduct a working conference related to wood engineering issues, but a broader effort is needed for all disciplines in wood science and technology. Therefore, this NRNA committee will conduct a similar working conference and then merge its outcomes with ASCE generated outcomes. For more information, please see the <u>link on the SWST website</u>.

Wood and Fiber Science

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Wood and Fiber Science, as the official journal of the Society of Wood Science and Technology, publishes papers with both professional and technical content.

Editorial Manager® is an online manuscript submission and review system. Authors may submit manuscripts and track their progress. Reviewers can download manuscripts and submit their evaluations to the editor.

Simply go to the above webpage, click on the "Register" link on the top of the page.

You type in your first name, last name, and email. It will bring you to a screen that allows you to enter your personal and institutional contact information. Then you "Select Personal Classifications" to identify your areas of interest and specialization. Finally, you assign a username. The editor will use this information to supplement the current database of potential reviewers.

Mississippi State University, College of Forest Resources announces a new distinguished professorship



Warren S. Thompon standing with H. Michael Barnes, recipient of the Warren S. Thompson Professor of Wood Science & Technology

H. Michael Barnes, a 37-year faculty member, is the new Warren S. Thompson Professor of Wood Science & Technology. A Baytown Texas native, Barnes holds bachelors and masters degrees from Louisiana State University and a doctorate from the State University of New York College of Environmental Science & Forestry. He is a Fellow of three international societies: the Society of Wood Science & Technology, International Academy of Wood Science, and the Institute of Wood Science. He has received numerous awards for research and service including the university's Ralph E. Powe Research Excellence Award, the American Wood-Preservers' Association Award of Merit, Forest Products Society's Gottschalk Award, and Railway Tie Association Award of Merit. Barnes currently serves as president of the Forest Products Society and is a past president of the Society of Wood Science & Technology.

RENEWABLE NATURAL RESOURCE FOUNDATION (RNRF) SPRING MEETING

May 19, 2008 at the American Geophysical Union, Washington, D.C.

Topic: Preparing for the Transition to a New Administration

Changes in administration in the Federal Government present opportunities for advancing new leadership and leadership policies. We discussed possible ways that RNRF and other member organizations can look for ways to influence the new administration in policies and priorities consistent with those of the member organizations. Casey Dinges, Senior Managing Director for Strategic and Public Affairs for the American Society of Civil Engineers (an organization with 140,000 members) talked about how we should identify professionals to be considered for high positions in natural resource management. He also discussed some of the better approaches to having impact on these decisions. Dick Engberg, Techical Director for the American Society of Landscape Architects, also offered their perspectives on their organization's transition related activities.

Everyone agreed that nearly all natural resource government organizations are having significant problems with natural resource management because of reductions in funding and staff, and that the infrastructure of our country; including roads, bridges, damns, watersheds, forests, etc.; is being sorely neglected.

SWST needs to decide what it will do to move forward in the new Federal administration with its agenda for the "Use of Woody Biomass for Biofuels" and "Life Cycle Assessment and Inventory to Reduce Environmental Burdens."

Howard N. Rosen RNRF, SWST Representative

NEW WOOD PRESERVATION BOOK

NEW FROM OXFORD • SAVE 20%

Contents:

- 1. Introduction to Developing Wood Preservative Systems and Molds in Homes.
- 2. Fungal Decay of Wood: Soft rot Brown rot White rot.
- 3. Insects that Infest Seasoned Wood in Structures.
- 4. Molds and Stain Fungi.
- 5. Weathering and Photo-Protection of Wood.
- 6. Regional Biodeterioration Hazards in the United States.
- 7. Concepts in the Development of New Accelerated Test Methods for Wood Decay.
- 8. Evaluating the Durability of Wood-Based Composites.
- 9. Mold Growth in Structures: An Overview.
- 10. The Biology and Microscopy of Building Molds: Medical and Molecular Aspects.
- 11. Molds and Moldicide Formulations for Exterior Paints and Coatings.
- 12. The Changing Landscapes of Mold Litigation.
- 13. Wood Preservative Fungicides.
- 14. Bioactive Compounds to Prevent Insect Degradation of Wood.
- 15. Termite Control from the Perspective of the Termite.
- Improving the Performance of Organic Biocides by Using Economical and Benign Additives.
- 17. Biocide Depletion: Chemical, Physical and Photodegradation.
- The Role of Non-Decay Microorganisms in the Degradation of Organic Wood Preservatives.
- 19. Acetylation of Wood in Lumber Thickness.
- 20. Furfurylation of Wood.
- 21. Wood Protection with DMDHEU and its Derivatives.
- 22. Processes and Properties of Thermally Modified Wood Manufactured in Europe.
- The Process by which a new Wood Preservative System for Residential Exterior Applications is Developed: An Industrial Perspective.
- Wood Preservative Formulation Development and Systems: Organic and Inorganic Based Systems.
- 25. Copper-based Systems for Exterior Residential Applications.
- 26. Borate Wood Preservatives: The Current Landscape.
- 27. In-Process Protection of Wood Composites.
- 28. Organic Preservative Systems for the Protection of Wood Windows and Doors.
- Biological Degradation of Wood-Plastic Composites (WPC) and Strategies for Improving the Resistance of WPC against Biological Decay.
- The Federal Insecticide, Fungicide and Rodenticide Act and Its Impact on the Development of Wood Preservatives.
- 31. AWPA and Building Code Procedures for new Preservative Systems.
- 32. Environmental Regulations and the Wood Preserving Industry.
- 33. DISPOSAL Management of Preservative Treated Wood Products.
- 34. Wood Protection in Europe: Developments Expected up to 2010.
- 35. Wood Preservation Trends in North America.
- 36. Trends in Wood Protection: Asia and Oceania.

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(ACS Symposium Series 982) (An American Chemical Society Publication) 2008 674 pp.; 110 line illus. 978-0-8412-3951-7 cloth \$155.00/\$124.50

Tor P. Schultz, Professor, Mississippi State University

Holger Militz, Professor, University of Göttingen

Mike H. Freeman, Independent Wood Scientist, Consultant

Barry Goodell, Professor, University of Maine

Darrel D. Nicholas, Professor, Mississippi State University

COMMERCIAL TRADING IN FOREST-BASED CARBON CREDITS

ALBANY, Ga., May 15, 2008 - Trading in forest-generated carbon credits-a potential new market for tree farmers-is poised to begin in the U.S. in advance of likely passage in the next few years of mandatory controls on greenhouse gas emissions.

F&W Forestry Services, Inc., of Albany, Ga., one of the nation's oldest and largest forest consulting and management firms, announced it has been approved as a "carbon offset aggregator" by the Chicago Climate Exchange (CXX), clearing the way to begin trading on behalf of forestland owners. CXX began trading carbon credits in 2003 but until now mostly from non-forest sources.

F&W said it is working with several forestland clients to register their "managed forest projects" on the CXX as a prerequisite to marketing carbon credits from trees. As an aggregator, F&W will facilitate trading activities on behalf of forest landowners and bundle various sized projects into carbon marketing units.

The carbon credit market is now entirely voluntary in the United States, with buyers seeking credits to "offset" carbon dioxide emissions for a variety of reasons. Legislation with substantial bi-partisan backing is under consideration in Congress that would establish mandatory industrial emission limits implemented through a "cap-and-trade" system of carbon credits.

Under this system, "caps" are established for individual CO2 emitters (such as a coal burning power plant). If the emitter operates below its cap, it could sell its unneeded "credits" to another emitter that exceeds its cap, therefore establishing "trading" in carbon credits. Most "cap-and-trade" proposals would open the way for forestry participation.

Forests naturally capture and store atmospheric carbon through normal tree growth. Tree carbon can be quantified through forest management techniques and marketed in the form of carbon dioxide equivalents measured in tons on the CXX and other markets.

In mid-March, carbon credits were trading on the Chicago Climate Exchange at about \$5.30 per ton. In Europe, which operates under a mandatory cap-and-trade system, credits were trading in the same time period at \$35.47 (U.S.)

Under the present voluntary market in the U.S. and existing conditions, it is estimated that a well-managed stand of southern loblolly pine should produce a net annual income of \$10 to \$15 per acre.

CONFERENCE ON NANOTECHNOLOGY – CALL FOR POSTERS

TAPPI is seeking and inviting all students to participate in the 2008 International Conference on Nanotechnology for the Forest Products Industry poster competition. Student posters in any area/aspect of nanotechnology are eligible for the competition.

The top two student posters will be awarded \$500.

All undergraduate and graduate students attending the conference are encouraged to apply. Competition Guidelines and Procedures are listed below. The Student Application form, Poster Session Mailing letter and Poster details are located on the conference website <u>http://www.tappi.org/08nano</u>. Applications are due no later than May 28, 2008. Please see the "Student Poster Competition Guidelines and Procedures" on the subsequent page.

Also, please note that we are 99% sure that we will have student travel money for the conference. More to come....

Robert Moon Student Award Sub-Committee Chair

David Bell V.P. Corp. and University Relations and Marketing 770 209-7209

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STUDY ON WOOD-PLASTIC COMPOSITES IN EUROPE

Europe's wood-plastic composites market grew by 23% per year between 2003 and 2007; 10 times as fast as the markets for commodity polymers in Europe. Demand in Europe is no longer being driven mainly by the machinery producers and customers are starting to double their usual orders as the market gains its own momentum.

I wondered if our new detailed study on wood-plastic composites in Europe would be of interest to you or your colleagues. Further details can be found on our website (see below link)

http://www.amiplastics.com/ami/APproduct.asp?dept%5Fid=0&pf%5Fid=M105

The study also includes a spreadsheet breaking down wood-plastic composite economics and details of 36 wood-plastic composite producers making wood-plastic composites in Europe in 2008.

I also would like to take this opportunity to remind you about our conference Wood Plastic Composites 2008 which will take place from 14-16 October in Vienna. The event is now well-established as the leading European and international event and we expect participants from over 30 countries and 6 continents to attend, providing the most international context with which to understand the industry.

Further details are available on our website (see below link)

http://www.amiplastics.com/ami/AMIConference.asp?EventID=135

Please do not hesitate to contact me if you require any further information.

Kerry Satterthwaite Senior Research Editor ks@amiplastics.com

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THE STATE OF THE WOODY CELLULOSIC BIO-PRODUCTS INDUSTRY IN NORTH AMERICA

Request for Pre-Proposals RFP Number: 2008-001

Statement of Purpose

The U.S. Endowment for Forestry & Communities (the Endowment) is seeking pre-proposals from qualified service providers who can aid in the development of a state-of-the-issue report and a proposed information management system on bioproducts (chemicals, etc. with emphasis on bi0-energy) from wood and woody cellulose across North America (Canada and U.S.). The Endowment seeks to develop this information so that it might best determine places and means to target work to yield the greatest gain from potential future programmatic investments.

Background

Growing interest in and development of bioproduct markets for wood and wood-based cellulose offers the potential for new income streams for forest landowners and a potential outlet for lowquality wood that often exacerbates forest health issues. While there has been much in the media about potential liquid energy sources from cellulose, it is difficult to sort the hype from the reality. Too, emphasis on liquid fuels alone belies the use of wood in pellets or as direct fuels for heat and power much less the potential extraction of chemicals beyond the traditional terpines and tannins.

The positive spin and near weekly announcements of new facilities, while offering hope to some

beleaguered landowners, serves only to fuel fears of others of another boom-and-bust cycle that could be accompanied by unintended negative environmental impacts. A reasoned view of the potential as well as the downside of the bioproducts industry must begin with a sound assessment of the current state of the industry including facility distribution and sources of raw material.

Scope of Work

The successful vendor (*please note that we welcome team/collaborative efforts*). Rather than a simple "state-of-the-issue report" alone, the Endowment desires to create a system that will allow long-term tracking and information on an on-going basis to support the needs of individual producers and users as well as to support and allow local, state, regional and national resource planning and assessment. The successful vendor will s will develop a report(s) as follows: A state-of-the-issue report that will provide the following North American information: A literature review on the "state-of-the-science" on conversion of woody cellulose to bio-products with emphasis on bio-energy.

Define the current state of development of the woody cellulosic bio-products industry Number, location and types of existing industrial facilities that use and/or convert wood and wood-based cellulose to bio-products (chemicals, energy, etc.) along with their source of supply (e.g. logs; chips; bark and whether materials are internally- or externally generated/procured [e.g. waste or by-products from primary processing]) and total consumption by source of raw material.

Include facilities where wood and wood-based cellulose are one of multiple raw materials -e.g. wood chips in coal-fired facilities.

Include known/announced capacity not yet online by product and with planned sources of supply and consumption as well as timelines to production.

Include direct/indirect employment figures by type/size of facility.

State of research in pipeline and expectations for commercialization.

Provide case study summaries of best of class examples of each product type (e.g. wood to energy; wood to pellets; wood to liquid fuel; wood to chemical, etc.).

Provide background information on the "best of class" facilities worldwide that hold promise for North American application.

Provide information on estimated numbers and types of non-industrial (e.g. schools, communityscale facilities) using woody cellulose for energy by size of facility (e.g. energy produced) and type/source of raw material and provide case studies on "best of class" applications.

Identify opportunities to further sustainable market growth

Identify barriers to sustainable market growth

Develop an efficient, cost-effective, easy-to-update online database that would allow continual updating of woody cellulose bio-fuels users in a real-time system.

Determine the best technologies to gain needed information quickly and cost-effectively while protecting proprietary information.

Review options for "permanent homes" for the system and costs/means to sustain its operation.

Process Schedule

The Endowment will entertain "pre-proposals" -1-2 page summaries of a plan of work and expected outcomes and ask the prospective vendor(s) to complete a final proposal in greater

detail.

Commitments made in the pre-proposal stage should be viewed as "contract ready" with the exception of items where the Endowment and the vendor agree to project modifications that alter expected product outputs and timelines and therefore call for adjustment of timelines and cost. The Endowment would like to engage the successful vendor at the earliest possible time. Pre-proposals should be submitted within 21 days of the date of this notice of availability. Once a contract is let, all work and a final product would be expected in not more than 180-days if possible. (*A shorter turn-around is highly desirable*).

Outcome and Performance Standards and Deliverables

The successful vendor will work closely with the Endowment staff in the performance of this agreement to yield a report(s) that will be ultimately published by the Endowment for broader community use.

Work will progress from a detailed work plan agreed to by both the vendor and the Endowment followed by periodic updates on progress leading to a draft report(s). The vendor and the Endowment will work closely to develop revisions leading to a final PDF version acceptable to the Endowment.

Terms of Contract

The services agreement will be by written contract between the Endowment and the successful vendor.

Evaluation and Award Process

Proposal evaluation criteria. The Endowment will rate potential vendors on a range of criteria. Relevant work experience Quality of prior work Ability to meet timelines desired Proposed methods and products Total project price

Contact and Questions

For questions or clarifications contact <u>rfp@usendowment.org</u> You may wish to check our website frequently during the open call period for a complete listing of Questions and Answers generated by other potential respondents.

Pre-Proposal Process

The Endowment ONLY accepts Pre-proposals via its online process. To start a pre-proposal application use the following address or click on the link in the "Initiatives and Grants" section of the Endowment website and follow the link to "RFPs." http://www.GrantRequest.com/SID 841?SA=SNA&FID=35003

FAMILY FOREST CERTIFICATION

Family Forest Certification Moves Forward FSC-US and the FSC Family Forests Alliance Announce Next Steps in Standards Development Process

Minneapolis, MN - Forest product and forestland certification are rapidly gaining recognition in the marketplace as vehicles for rewarding responsible forest management practices. More than 250 million acres of forests are certified around the world under the Forest Stewardship Council (FSC) standard. Despite the growth in forest certification, it is often difficult for small ownerships and family forests to participate.

³Family forests are an important part of the landscape and provide critically important ecosystem services, such as carbon sequestration, water quality protection, and wildlife habitat,²says Corey Brinkema, President of FSC-US.

At meetings held in Minneapolis on April 7th and 8th, the FSC-US undertook the next steps for expanding family forest certification opportunities in the United States.

³In the U.S. almost 60% of the forests are privately owned and it is important to include these lands in forest stewardship efforts,² says Kathryn Fernholz, Executive Director of Dovetail Partners and Secretariat for the FSC Family Forests Alliance, a collaborative group that is advocating for expanded access to FSC certification opportunities for small privately owned forests.

The Forest Stewardship Council (FSC) is the fastest growing global forest certification program and the only one endorsed by the world¹s leading environmental and social non-governmental organizations. In the U.S, the FSC has developed a Family Forests Program to ensure small landowners will be able to receive the benefits of FSC certification and sell their products under the FSC label.

³Our Family Forests Working Group was brought together to complete a process of reviewing the existing FSC certification standards and to offer recommendations on how to more effectively engage small landowners,² says Brinkema.

The FSC-US¹s Family Forests Working Group includes representatives from the FSC Family Forests Alliance and other stakeholders.

³My hope, and the hope of other Working Group members, is to use our many years of experience working with family forest certification, and the lessons we¹ve learned to help make the program work better for everyone while still maintaining the high standards that are expected of FSC certification,² says John Gunn of the Trust to Conserve Northeast Forestlands, an Alliance core organizer.

Additional meetings of the working group are planned in May 2008, and a public review and comment period will be announced later this summer. The full standards review and approval process is anticipated to be completed before the end of the year.

For more information: <u>http://www.familyforestsalliance.org</u>

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LSU AGCENTER WOOD TESTING LAB GAINS ACCREDITATION

Louisiana companies that produce and market wood products now have an accredited testing facility available to them in the state.

The LSU AgCenter's Wood Durability Laboratory, part of the Louisiana Forest Products Development Center (LFPDC), recently received accreditation from three organizations that establish standards for testing wood products, according to the Dr. Todd Shupe who will be directing the lab.

"We passed a number of test standards," said Shupe, a professor in the LFPDC in the School of Renewable Natural Resources.

The lab now is accredited by the International Organization for Standardization, the world's largest developer and publisher of International Standards. The LSU AgCenter facility can now perform 13 ISO-certified tests recognized by the American Wood Protection Association, ASTM International and the Window and Door Manufacturers Association.

"Developing effective management approaches for termites has been a major goal of the Department of Entomology and in the Louisiana Forest Products Development Center," said Dr. David Boethel, vice chancellor of the LSU AgCenter. Dr. Richard Vlosky, Director of the LFPDC said "This accreditation resulted from the hard work and perseverance of Dr. Shupe and Dr. Qinglin Wu, another researcher at the LFPDC."

The laboratory personnel include members from the faculty in the LSU AgCenter's Department of Entomology and School of Renewable Natural Resources.

"We promote team approaches to problem-solving in the LSU AgCenter," Boethel said. "We applaud those efforts and the efforts of our scientists to achieve ISO accreditation."

Manufacturers use the test results from independent ISO labs to verify the efficacy of their products and to meet requirements for building-code approval, Shupe said.

The LFPDC has been providing testing for Louisiana wood products manufacturers for many years, but the results of those tests were not certified.

"This accreditation allows the AgCenter to provide a service to Louisiana manufacturers to help

them design and market products that meet building codes," Shupe said.

The ISO accreditation process included a complete audit of the laboratory facility to assure testing meets rigorous standards, he added.

"Now, Louisiana companies can be certain their data are of the highest quality possible," Shupe said.

The accreditation followed a visit by inspectors who were shown how tests are conducted, how operators are trained and how record keeping and security are maintained.

"Chain of custody of materials and data is extremely important," Shupe said. "These things have to be handled in a precise manner to assure efficacy of the process and avoid miscommunication."

The accreditation is subject to annual review, and inspectors look for constant improvement, Shupe said.

Shupe said the most important aspect of the accreditation process was developing a quality manual that "identifies who you are and how you operate."

Shupe said the Wood Durability Laboratory has long been the leading facility in the country for testing for termite resistance in wood products.

The basic test involves putting termites and wood in a jar of sand. After 28 days, researchers measure how much mass the wood lost, assign a visual rating and determine how many termites have died. The results indicate how effective a particular wood species or wood treatment is in repelling termites.

"No one in the country has run more of these tests than we have," Shupe said.

Shupe said the laboratory tests all sorts of wood products, including various species of solid wood as well as a variety of engineered wood products. In addition to termite resistance, the laboratory also tests wood for strength and for resistance to molds, fungus, corrosion and decay.

"We've had a lot of interest in mold testing," he said.

"This is a Louisiana lab that's doing something for Louisiana companies to find better products to fight termites," Shupe said.

LSU AGCENTER RECEIVES WOOD RESEARCH GRANT

The U.S. Department of Agriculture's Cooperative State Research, Education and Extension Service has awarded the LSU AgCenter a grant to become the country's11th Center for Wood Utilization Research.

The wood research centers conduct research and product development spanning a broad spectrum of activities, said Dr. Allen Rutherford, director and Bryant Bateman Professor of Renewable natural Resources in the LSU AgCenter's School of Renewable Natural Resources.

The 2008 CSREES grant provides funds for two LSU AgCenter projects:

-- Developing technologically feasible and economically acceptable solutions for using wood fibers and used plastics to manufacture durable building materials.

-- Developing a recycling system to reuse and recycle decommissioned treated wood and the chemicals used to preserve it.

Rutherford said the wood fiber-plastics grant will focus on long-term durability and performance of the products and the recycling system will emphasize an economically viable and environmentally friendly closed loop recycling system.

"Wood fiber-plastic composites are emerging as a viable alternative to glass fiber-reinforced composites in various applications," Rutherford said. "They offer some inherent technical advantages over conventional composites like low cost, light weight, competitive mechanical properties, reduced energy consumption and a 'green' concept."

Rutherford said researchers at the LSU AgCenter's Calhoun Research Station are working on methods for recycling preservative-treated utility poles to keep them out of landfills.

"A substantial amount of decommissioned wood could be reused to produce value-added, structural engineering components," he said.

In addition to Rutherford, who will coordinate the entire project, other center members include Dr. Richard Vlosky, Dr. Todd Shupe, Dr. Qinglin Wu and Dr. Cornelis de Hoop, all in the AgCenter's Louisiana Forest Products Development Center.

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Contact: Allen Rutherford at (225) 578-4187 or drutherford @agcenter.lsu.edu Writer: Rick Bogren at (225) 578-5839 or rbogren@agcenter.lsu.edu <<u>Back></u>

9TH PACIFIC RIM BIO-BASED COMPOSITES SYMPOSIUM

November 5th – 8th 2008 Rotorua, New Zealand

The 9th Pacific Rim Bio-Based Composites Symposium organizing committee would like to welcome the Pacific Rim Bio-Based Composites Symposium back to its birthplace. New Zealand was host to the inaugural Pacific Rim Bio-Based Composites Symposium in 1992. The theme of the 2008 Symposium is "Innovation and Challenges in Bio-based Composites – How Far to the New Frontier?"

The key objective of this international symposium is to provide a forum for discussion and to facilitate the exchange of ideas and information on the latest development and findings in biobased composites. Among the target groups are scientists and experts from the relevant industries, government agencies, universities and research institutions. In addition, this symposium will be a forum to promote and strengthen further cooperation and networking amongst the researchers, experts, manufacturers and machine suppliers for the development of bio-based composite industries.

Sponsors If you are interested in exploring sponsorship opportunities for the Symposium, contact Gordon Thomson on +64-7 921 1380 or <u>gordon.thomson@innovatek.co.nz</u>

Symposium Website www.biobased-composites.com

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INTERNATIONAL PANEL PRODUCTS SYMPOSIUM (IPPS)

Dipoli Conference Centre, Finland 24-26 September 2008

The provisional programme for the symposium is now available to download from the website <u>http://www.ipps.uk.com</u>. Sessions for this year include (1) Our Industry (2) Formaldehyde (3) Plywood (4) Resin Strenght and Quality (5) Resin Technology (6) Monitoring and Testing (7) Raw Materials / New Products.

CONFERENCE ON ADVANCED ENGINEERED WOOD & HYBRID COMPOSITES

The 4th International Conference on Advanced Engineered Wood & Hybrid Composites, July 6-10, 2008, in Bar Harbor, Maine, offers a comprehensive program covering major fields of advanced engineered wood & hybrids composites against the backdrop of one of the world's premier summer resorts.

In addition to sessions on adhesion and panels, composites for defense and homeland security, marine composites, modeling, wood and natural fiber plastic composites, and structural wood composites, a special half-day workshop is being offered in partnership with the Wood-Based Composites Center. This workshop - Trends in Green Building: Composite Materials - includes presentations on: the role of life cycle assessment in sustainable construction, trends in the green building movement, implications of green building on engineered wood, and the social footprint of current wood adhesive technologies.

Conference chairs are Doug Gardner, Professor of Wood Science and Technology, and Habib Dagher, Director, The AEWC Center. Keynote speakers are Tom Williamson of APA - The Engineered Wood Association and Josef Eberhardsteiner of the Institute for Mechanics of Materials and Structures, Vienna. The conference will also feature a business lunch with a talk "The State of the Composites Industry" by John Busel, Director of the Composites Growth Initiative, American Composites Manufacturers Association.

For more information about the conference or to register, go to http://www.aewc.umaine.edu/conference/

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BIOCOMPATIBLE ADHESION TECHNOLOGIES

Our client, a global medical device company, invites proposals for technologies or methods that will facilitate the adhesion of a known adhesive to wet cortical bone surfaces, and/or novel adhesion technologies. NineSigma has identified you as a party with the potential to respond to this request, or as a contact who might know of someone with expertise in this area.

This invitation is not a complete description of the project. More information is available in the Request for Proposal (RFP) document online at <u>http://www.ninesigma.com/mx/50734-1</u>. All responders MUST use the required Response Template to submit Proposal Abstracts by the final submission date of June 20, 2008.

If after reviewing the full RFP document you are interested in submitting a proposal or would like more information, please contact me by email and reference RFP# 50734-1 in the subject line.

Sincerely,

Stephanie Orellana, Ph.D. Program Manager NineSigma, Inc. 23611 Chagrin Blvd., Ste. 320 Cleveland, Ohio 44122-5540 PhD@ninesigma.com

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RESEARCH AND TEACHING POSITION IN SECONDARY WOOD PROCESSING

DÉPARTEMENT DES SCIENCES DU BOIS ET DE LA FORÊT FACULTÉ DE FORESTERIE ET DE GÉOMATIQUE UNIVERSITÉ LAVAL

Position description

As part of the Industrial Research Chair NSERC Program, the Department of Wood and Forest Sciences at Laval University is looking for a secondary wood processing specialist to assume responsibility for: **the administrative and scientific management of the** "*Industrial Chair for structural engineered and appearance wood products*"; the direction of research projects and the supervision of graduate students on subjects related to secondary wood processing; the participation in departmental, university and multisectoral (private and public sectors) committees; teaching undergraduate and graduate courses in the area of secondary wood processing and supervision of students.

Selection criteria - The candidate should:

- have a Ph.D. in wood science or in a related field;
- have a specific knowledge in one or several of the following areas : design and manufacturing of structural elements, design and manufacturing of appearance products (decorative wood, furniture components, flooring), utilization of wood-based composite panels in appearance and structural products;
- be well established in research, an experience in industry would be an asset; demonstrate the ability to manage a fundamental and applied research program in the areas mentioned above and be able to integrate multidisciplinary teams;
- be able to secure funding required for the operation of the Chair;
- be able to communicate in French or commit to acquire such skills within a year.

Salary: As per collective agreement in force.

Expecting starting date: December 2008, conditional to the approval of the Chair by the Natural Sciences and Engineering Research Council of Canada.

In compliance with its Employment Equity program, Université Laval intends to hire women in half of its vacant positions. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Applicants should send a résumé indicating their domain of expertise, copies of recent major publications, a brief description of the proposed research program, and three letters of recommendation no later than June 16, 2008 to:

Yves Fortin, directeur Département des sciences du bois et de la forêt Tél.: (418) 656-2181 Faculté de foresterie et de géomatique Fax : (418) 656-5262 Université Laval Québec (Québec) G1K 7P4 E-mail : <u>yves.fortin@sbf.ulaval.ca</u>

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M.SC. GRADUATE RESEARCH ASSISTANTSHIP

Location: <u>Department of Wood Science</u>, University of British Columbia, Vancouver, BC, Canada.

Project running title: Factors influencing the performance of carbon based wood preservatives.

Starting date: September 2008 or January 2009

Financial support: Full-time graduate research assistantship (GRA) for 2 to 2.5 years (yearly renewable upon satisfactory progress).

Qualifications: Degree in either Chemistry or Wood Science majoring in wood chemistry, with strong background in instrumentation.

Qualified applicants please send by email a letter of interest (describe relevant qualifications) and a copy of your CV to **Prof. John Ruddick** john.ruddick@ubc.ca

PH.D. GRADUATE RESEARCH ASSISTANTSHIP

Location: Department of Wood Science, University of British Columbia, Vancouver, BC, Canada.

Project running title: Fractal modeling of wood drying.

Starting date: January 2009

Financial support: Full-time graduate research assistantship for 3-4 years (yearly renewable upon satisfactory progress).

Qualifications: M.Sc. degree in Wood Science majoring in wood physics/drying or related Science/Engineering field with strong background in pertinent mathematics and physics.

Qualified applicants please send by email a letter of interest (describe relevant qualifications) and a copy of your CV to <u>stavros.avramidis@ubc.ca</u>

Dr. Stavros Avramidis, FIWSc, FIAWS Professor Department of Wood Science The University of British Columbia 2424 Main Mall Vancouver, BC, V6T1Z4 Canada tel: +1 604 8226153 fax: +1 604 8229159 web: <u>http://wood.ubc.ca</u>

ASSISTANT PROFESSOR OF WOOD SCIENCE AND TECHNOLOGY

Emphasizing Forest Products Processing and Marketing Division of Forestry and Natural Resources West Virginia University

Academic Rank and Salary: The Wood Science and Technology Program in the Division of Forestry and Natural Resources at West Virginia University is seeking to fill a nine-month, tenure track position at the rank of Assistant Professor. The position will begin August 16, 2008. Summer salary may be available initially in order to establish a research program contingent upon availability of funds.

Responsibilities: Responsibilities include the following: 1) teaching undergraduate courses in forest products processing and marketing and other classes, including the development of a graduate level course appropriate to the needs of the Division and the candidate's expertise, 2) planning and developing support for a research program focused on integrating forest product processing and marketing with emphasis on Appalachian hardwoods, and 3) service activities related to the forest products industries, specifically, marketing potentials and global competitiveness of the Appalachian hardwood products. The incumbent will be expected to attract and mentor graduate students, to acquire extramural funding, and to publish research results in refereed research journals.

Qualifications: An earned doctorate, with at least one degree in Wood Science and Technology is required. Experience in forest products processing and marketing is desired. Demonstrated ability to communicate with students, industry, the general public, and other scientists is essential.

Program: The Wood Science and Technology program at WVU is one of four program areas in the Division of Forestry and Natural Resources. The program offers degrees at the bachelor's, masters, and doctoral levels. The B.S. in Wood Science and Technology is accredited by the Society of Wood Science and Technology. The program has been working closely with the Appalachian Hardwood Center and offers numerous opportunities for collaboration between faculty and research staff. The recently established Biomaterials and Wood Utilization Research Center is affiliated with the program and has focused on developing new products, bio-fuels, and techniques that make better use of upland hardwoods.

Location: The West Virginia University main campus is located in Morgantown, a small city of 45,000 in the Appalachian Mountains on West Virginia's northern border adjacent to Pennsylvania. Morgantown was rated third in the United States among best metropolitan cities in which to live in The Rating Guide to Life in America's Small Cities, 1997 edition. West Virginia University is the state's major research, doctoral degree granting, land-grant institution. It serves over 22,000 students in 175-degree programs offered by 13 academic schools and colleges.

Application: Qualified applicants should submit an application letter, detailed curriculum vitae, transcripts, and a list containing at least three professional references that includes all necessary contact information (address, telephone number, and e-mail address). All correspondence must be sent to and inquiries directed to:

Dr. Joseph F. McNeel, Director Division of Forestry and Natural Resources West Virginia University P.O. Box 6125 Morgantown, West Virginia 26506-6125 <u>imcneel@wvu.edu</u> Phone (304) 293-2941 x 2471 FAX (304) 293-2441 Applications will be accepted until **May 15, 2008** or until the position is filled. West Virginia University is committed to enhancing its faculty diversity. Women and minority applicants are encouraged to apply. Web Site: <u>http://www.forestry.caf.wvu.edu</u>.

An Equal Opportunity/Affirmative Action Employer

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LUMBER OPERATIONS MANAGER

Base Salary to \$100,000 plus incentives. Progressive softwood dimension lumber firm Based in upper Midwest Seeking candidate with solid leadership and organizational skills 5-10 years of progressively successful mill supervisory experience in high-tech sawmill operations Firm plans to expand using high-tech log breakdown equipment focused on reducing labor and increasing productivity Selected candidate should also have a track record in mill modernization projects and solid written and verbal communication, and analytical leadership skills. Excellent future in a multi-plant firm with a solid raw material resource base and marketing / sales strengths. Reference Search Assignment # 6134CJ Carl Jansen **Owner & Principal Wood Products Recruiter** Mylinda Humble

Recruiting Assistant

SEARCH NORTH AMERICA, INC. Phone: 503/222-6461 Fax: 503/227-2804 www.searchna.com ~ mylinda@searchna.com

REPORT OF VISITING SCIENTIST TRIP TO MISSISSIPPI STATE UNIVERSITY

JIM L. BOWYER, APRIL 2008

I hadn't been to Mississippi State University for more than 20 years. Upon arrival last month one thing became immediately apparent: much has changed.

Among those changes are additions of several new structures to the Mississippi Forest Products Laboratory complex. One of these is the very impressive Franklin Furniture Institute building that encompasses offices, a state-of-the-art auditorium, exhibit spaces, and large-bay laboratories.

Changes are evident, too, in the research programs of the Department of Forest Products. Long a national and global leader in wood durability and preservative research, the department continues to maintain a strong fundamental and applied focus in this area, with current efforts centered on nonbiocidal properties of wood extractives that serve to inhibit wood-destroying organisms. Capitalizing on the strong analytical capabilities linked to its durability/preservatives program, several department faculty are now pursuing development of wood-derived bio-oil. Others are involved in late-stage process improvement work on Scrimber – work that will reportedly lead to near-term North American commercialization of this Australian invention. Still others are working on structural aspects of furniture design and on new strategies for coping with increased global competition in this industry. Within the past year the department has also recently hired its first-ever forest products extension specialist; this strengthens what was already a close working relationship with the state's forest products industry.

The occasion for this Earth-day 2008 campus visit was the Carlton Owen lecture series, an endowed series established in the College of Forest Resources in 1992 by the 1974 and 1976 MSU graduate for whom it is named. The program focuses on forest resource stewardship issues, with responsibility for the annual event rotating between the three departments in the College of Forest Resources. The Department of Forest Products sponsored the 2008 event, with the topic: "Bioenergy and Biochemicals Development and Potential Impacts on Global and Domestic Forests." The presentation examined global forest plantation trends; current national and global energy trends, including bioenergy; biochemicals potential; and important public policy and environmental considerations in bioenergy and biochemicals development.

Outstanding advance work by Department Head Rubin Shmulsky and his staff resulted in wide publicity of the event in local newspapers, TV coverage, and a great audience. The visit concluded with a dinner with the College leadership – a dynamic, enthusiastic group who appear committed to excellence in everything they do. I left MSU with an incredible impression of a University, College, and Forest Products program that are on the move.

Jim Bowyer SWST Visiting Scientist <Back>

SWST VISITING SCIENTIST TRIP REPORT

Dr. Jerrold E. Winandy SWST Visiting Scientist West Virginia University April 8-10, 2008

On Tuesday April 8th, I flew from Madison to Pittsburgh Airport and was picked up by Jeff Slahor of Appalachian Hardwood Center at WVU. We drove the scenic 1.5-hr drive South to Morgantown, WV. We toured the WVU campus and met Prof. James Armstrong. Jim then toured me around the Department of Forestry facilities in Percival Hall. From 3:30-4:45 pm, I spoke to Prof. Armstrong's Wood Science 100 class (History of Forestry in US, ~24-25 students) on *"History of the U.S. Forest Service and Forest Products Laboratory and the Development of Engineered Composites"*. Later that night I had dinner with Jim & Rose Armstrong at a local restaurant.

On Wednesday, April 9th, I had breakfast with Prof. Jim Armstrong and Dr. Joseph McNeel, Director of the Division of Forestry and Natural Resources of WVU School of Agricultural, Forestry and Natural Resources. We discussed development of enhanced linkages between WVU and FPL and other SWST-related issues concerning advancing the public perception and appreciation of the benefits of collaboration between wood science and forest management. From 9:00-9:50 am, I gave a lecture to Prof. Anderson's Wood Science 460 class (Industrial Processing and Manufacturing, ~20-25 students) on "Integrated biomass technologies: How biorefineries, biofuels, bio-based chemicals, advanced composites, and co-gen energy may all fit together in the near future". I then gave another lecture to Prof. Ben Dawson-Andoh's Wood Science 351 class (Wood Biology and Protection, ~18-19 students) on "Development of an accelerated laboratory method to assess decay effects on wood strength for solid-wood and composites" We then had an informal lunch of pizza and sodas with Wood Science graduate students to discuss their individual research areas. We discussed their needs for education and future responsibilities for leadership in vital research in our field. We also discussed employer expectations and what it is like in the outside world. Jim Armstrong and I then took a drive about 15 miles from Morgantown and toured the WVU Forest. At 4:30 pm I met informally with Student Chapter of FPS within the Department of forestry and Natural Resources at WVU. We discussed what it is like in the outside world and strategies for gaining as much as possible from their educational and research opportunities during their education at WVU. Finally, I had dinner that evening with Wood Science faculty (Profs. J.Armstrong, B.Anderson, B.Dawson-Andoh, and J.Saylor of the Appalachian Hardwood Center at WVU).

On Thursday, April 10th, I had breakfast with Shawn Grushecky, Director of the Appalachian Hardwood Center. Later that morning I met informally with the AHC staff. From 11:00-11:50 am I lectured to Prof. Armstrong's Wood Science 340 class in Wood Physics (~15 students) on *"Moisture and heat transfer interrelationships in wood."* At 1:00pm, I presented a Division of Forestry and Natural Resources Seminar, *"Wood composites as a tool for forest sustainability."*

Afterwards we had an open and informal chat with Department faculty on that issue. Later that night, Prof. Armstrong drove me back to a hotel near the Pittsburgh Airport and I flew home on Friday April 11th.

Dr. Jerry Winandy SWST Visiting Scientist West Virginia University April 8-10, 2008

Dr. Jerry Winandy visited West Virginia University from April 8-10 under sponsorship of the SWST Visiting Scientist Program. During his busy three days on campus, Dr. Winandy made four presentations to classes and gave a formal seminar for the Division of Forestry and Natural Resources. His visit also provided numerous opportunities to interact with our wood science faculty and students, and staff of the Appalachian Hardwood Center.

After arriving in Morgantown on April 8, Dr. Winandy gave a talk, "*History of the U.S. Forest Service and Forest Products Laboratory and the Development of Engineered Composites*" to the 90 students in Dr. Jim Armstrong's "Forest Resources in U.S. History" class. This course is part of the General Education Curriculum at WVU and includes students in numerous majors. As a result, his talk was most likely the first time many of the students ever heard of FPL or understood the breadth and environmentally-positive role of wood science research. Several wood science graduate students and faculty also sat in on this lecture.

On April 9, he met with two classes. He spoke to Dr. Bruce Anderson's "Plant Layout for Wood Industries" class on "Integrated biomass technologies: How biorefineries, biofuels, bio-based chemicals, advanced composites, and co-gen energy may all fit together in the near future." This is a small, capstone course in the WVU Wood Science curriculum, but "walk-ins" swelled the number in attendance to approximately 25 students, faculty, and staff. He also gave a talk on "Development of an accelerated laboratory method to assess decay effects on wood strength for solid-wood and composites" to Dr. Ben Dawson-Andoh's "Forest Products Protection" class. Approximately 30 undergraduate and graduate students, faculty, and staff attended this presentation.

On that day, he also held informal meetings with the program's graduate and undergraduate students. The session with seven graduate students focused upon areas of research but also included a pitch for grad students to attend the 2008 SWST Annual Convention in Concepcion. A late afternoon meeting with the student chapter of FPS was sparsely attended (six or seven students) but was a very interesting informal discussion over the future of the Forest Service, the national forest system, and how wood scientists need to be advocates of forest management as well as wood utilization. In what turned out to be a very busy day, he also spent a couple of hours touring the WVU Research Forest, the MeadWestvaco Natural Resources Center, and the adjacent Cooper's Rock State Forest east of Morgantown.

On Thursday, April 10, Dr. Winandy spent the morning in informal discussions with the staff of the Appalachian Hardwood Center at WVU. He spoke informally to Dr. Armstrong's "Physical

Properties" class on the topic of "*Moisture and heat transfer interrelationships in wood*." Fifteen students attended the talk.

The Division of Forestry and Natural resources hosted a seminar by Dr. Winandy on Thursday afternoon on *"Wood composites as a tool for forest sustainability."* Attendance was approximately 12-15 faculty and graduate students. (As a self-critique offered to other programs participating in the Visiting Scientist Program, we would not recommend scheduling a featured seminar as late in the visit as we did. If the seminar had been held Wednesday morning, we suspect that attendance would have doubled.)

The faculty, students, and staff of the Division of Forestry and Natural Resources at WVU wish to thank the Society of Wood Science and Technology and its Visiting Scientist Committee for making Dr. Winandy's visit possible. We especially thank Dr. Winandy for taking what turned out to be four days (thanks to flight cancellations) from his busy schedule for his informative and often motivational messages to our faculty, students, and staff.

Respectfully submitted,

James Armstrong, Assistant Division Director for Academics

Jingxin Wang, Program Coordinator, Wood Science and Technology

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: <u>AdamTaylor@utk.edu</u>

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. Tel: (608) 231-9347 Fax: (608) 231-9592 E-mail: <u>vherian@fs.fed.us</u> Web site: <u>http://www.swst.org</u>

Society of Wood Science and Technology

	0,
President:	James P. Armstrong
Past President:	Douglas Gardner
President Elect:	Jerry Winandy
Vice President:	James Funck
Executive Director:	Vicki L. Herian
Directors:	Nicole Brown (2009)
	Eva Haviarova (2009)
	Sue Anagnost (2008)
	Tony Zhang (2008)
Wood and Fiber Science	
Editor:	Frank Beall
Editorial Assistant:	Carol B. Ovens
SWST Newsletter Editor	Adam Taylor
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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

deficiences; Microbiological evalutions (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

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, Thompson Professor of Wood Sience & 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 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

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 **Specialty:** Forest products marketing and management

Will Discuss Formally: The marketing of forest products; Strategic planning and decisionmaking 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 Technolgoy Briquettes, Inc. (ATBI). Seattle WA, (206-522-6273) email: <u>atbi@comcast.net</u>
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
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
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 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 oakhickory forests.

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

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.

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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, Kevin Flynn, MS, Flynn & Associates, Wood Science & Technology P.O. Box 805 El Cerrito, CA 94530 (510) 758-4686 Voice (510) 758-4893 Fax) email: <u>kevin.flynn@ucop.edu</u>

Specialty: Wood performance; Problem analysis.

Will Discuss Formally: Durability; Degradation; Protection.

Will Discuss Informally: Any related issues.

FUNCK, JAMES W., Manager - Lumber and Wood Science, Weyerhaeuser Company, WTC 2B2, P.O. Box 9777, Federal Way, WA 98063-9777, Phone: 253-924-6826, Fax: 253-924-4239, E-mail: 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, Advanced Engineered Wood

Composites Center, Department of Forest Management, 231 AEWC 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.

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, Professor, 5755 Nutting Hall, Wood Science and Technology, University of Maine, Orono, ME 04469-5755. 207-591-2888. email: goodell@umit.maine.edu
Specialty: Biodeterioration, bioprocessing and bioconversion of wood. Nanotechnology: Producing carbon nanotubes from wood. Biocomposites and polymer matrix composites.
Will Discuss Formally: Any of 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 <u>http://woodscience.umaine.edu/goodell//</u> for more information on my research, or <u>http://www.woodutilization.org/overview.php</u> for

information on WUR.

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 specialities.

Will Discuss Informally: Above listed specialities.

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.

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.

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: <u>buk13@psu.edu</u>

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: <u>mkim@cfr.msstate.edu</u> **Specialty:** Wood Adhesives; UF resins; PF resins, PRF resins. **Will Discuss Formally and Informally:** Above specialty.

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KODZI Jr, EMMANUEL T., PhD. CANDIDATE, PURDUE UNIVERSITY, 175
MARSTELLAR ST., WEST LAFAYETTE, IN 47907 (765-496-6127) (Fax: 765-496-1344) email: 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.

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

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); <u>http://woodscience.oregonstate.edu</u> (FAX: 541-737-3385) email: 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@oregonestate.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.

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NO, BYUNG YOUNG, PhD, Resin Chemist, Hexion Specialty Chemicals, Inc. R&D lab, 610 south 2nd 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 mediumdensity 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.

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: <u>sshi@cfr.msstate.edu</u>

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

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

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.

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

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; 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.

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 Nanotechnolgy 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.

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YAN, NING., AssistantProfessor, 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.

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.