



SWST Newsletter

SOCIETY OF WOOD SCIENCE AND TECHNOLOGY
March/April 2005

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SWST Snapshot

SWST Membership	March 2005
Full members	271
Student members	42
Retired members	46
Affiliate members	4
Delinquent members	58
Fellows	2

Wood And Fiber Science Journal	March 2005
Subscribers	212
Delinquent Subscribers	40
Number of articles in 37(2)	17
<i>Currently in the pipeline</i>	
Ready for typesetting	38
Under revision by authors	19
Under review	31
Rejected	8



Rado Gazo, *Editor*

Financial	March 2005
Cash & Bank Accounts	\$160,087
Investments	\$63,463
Liabilities	\$1,449

Web Page	Dec. 2004
Number of unique visitors	1,759
Number of new visitors	1,060
Megabytes transferred	1,741
More data: http://www.swst.org/nettracker/reports/	

NEWS

SWST web page <http://www.swst.org> has been redesigned and updated. Thanks to Beth Smith.

SWST was accepted on the **Agenda 2020** Chief Technology Officers committee of the American Forest and Paper Association.

American Forest and Paper Association gave testimony to the House Appropriations Subcommittee on Agriculture, Rural Development, FDA, and Related Agencies. For more details see the entire testimony at the end of this newsletter.

2005 SWST Annual Meeting – Sunday Morning Session. June 19, 2005, Quebec City, Quebec, CANADA. “Nanotechnology for the Forest Products Industry”. For more details see <http://www.swst.org/annualMeeting.htm>

Research Roadmap to Nanotechnology in Forest Product. The nanotechnology task force headed by Ted Wegner of the US FPL, has completed the Research Roadmap to Nanotechnology in Forest Products. This roadmap is being distributed from a new website entitled <http://www.nanotechforest.org/> Please visit this website to view the hard work of many of our colleagues. SWST were directly represented by Tim Rials, Doug Stokke, and Mike Wolcott.

Bullets from Spring 2005 SWST Board Meeting

- Annual Convention (see <http://www.swst.org/annualMeeting.htm>)
- SWST was joined the AF&PA Agenda 2020 CTO (Chief Technology Officers) Committee on 3/8/05 as an Affiliate Technical Partner
- Wood and Fiber Science will now require manuscripts be submitted in electronic form
- Constitutional Amendment to clarify if a tie is found during an election of officers passed unanimously in mail ballot
- Accreditation visit made to Virginia Tech in February and upcoming visits planned at North Carolina State and University of Idaho in April
- Directory of Schools is being updated
- New membership survey is being formulated
- 2005 DSA Winner is Howard Rosen
- Publication Policy committee is investigating electronic publishing possibility
- 2004 Annual Meeting Proceedings is available online at <http://www.swst.org/meetings/AM04/proceed2004anmtg.html>
- Cellulosic Cell Wall Proceedings should be available sometime this year

CONFERENCES

FPS Great Lakes Section Seminar: Implementing Lean Manufacturing in the Wood Industry. Tuesday, May 10, 2005, Hudsonville, Michigan.

Lean is a philosophy that has been utilized by many globally competitive industries for the past several decades. Given the global competition for wood products, wood products manufacturers must adopt the Lean Manufacturing philosophy. Lean is the focus on value-added activities as perceived by the customer and the reduction of non-value added activities. Lean seeks to minimize unnecessary time, materials, efforts, and money expended during the manufacturing process. Our Lean Presenters will share with you their experiences and suggestions for turning your business into a competitive and lean enterprise.

Keynote Speaker:

Tom Dossenbach's consulting firm serves the furniture and woodworking industries globally. Areas of focus for the firm are on the implementation of lean manufacturing for companies to be globally competitive. In addition, he is Contributing Editor of *Wood & Wood Products Magazine* and writes a monthly column.

Julie Lang, Conferences & Meetings Director
Forest Products Society
2801 Marshall Court
Madison, WI 53705-2295
Phone: 608-231-1361, ext. 208
Fax: 608-231-2152
E-mail: conferences@forestprod.org

Analytical Methods for Wood-Based Composites R&D. A *Wood-Based Composites Center Workshop*. June 8-9, 2005. Virginia Tech, Blacksburg, Virginia.

This laboratory-intensive course introduces participants to the fundamentals underlying several different analytical tools and methods pertinent to polymers, adhesives, wood and wood-based composites. Participants will acquire the basic knowledge needed to appreciate how particular instruments operate, and what various methods will provide for the R&D professional. The objective will be to help participants learn how these various methods could benefit their R&D activities.

For more information, visit <http://www.wbc.vt.edu> or call (540) 231-7092.

48th Annual Convention - Society of Wood Science and Technology, June 19, 2005. Delta Quebec Hotel, Quebec City, Quebec, Canada.

University of Maine Conference on AEWCs. The 3rd International Conference on Advanced

Engineered Wood Composites to be held July 10 – 14, 2005 in Bar Harbor, Maine provides a focused venue for discussion of the commercial, scientific and engineering aspects of advanced engineered wood composites (AEWCs). Conference sessions cover a comprehensive program including major product and process areas in AEWCs - marine composites, codes and standards, wood plastic composites, adhesion, composites in construction, bio-composites, and FRP-reinforced bridge applications. This 3rd International Conference, like the 1st and 2nd conferences, will bring together an international mix of academics and industrial researchers in the areas of materials, wood science, structural and civil engineering, and polymer science at a scale that facilitates active involvement and networking for all participants.

The conference offers the opportunity to combine business with vacationing in one of the world's premier coastal settings. The conference site, the Harborside Hotel and Marina, provides a state-of-the-art meeting facility with a world-class destination. Throughout the conference, participants will be able to view the panorama of Frenchman's Bay. Whale watching, deep sea fishing, sea kayaking, shopping, and fine dining are within easy walking distance of the Hotel. Shuttle service to nearby Acadia National Park provides access to swimming, hiking, and world famous seascapes. The Hotel offers a variety of rooms and suites with prices starting at \$135. See <http://www.theharborsidehotel.com> for more information.

Conference sponsors include Applied Thermal Sciences, HAVCO Wood Products LLC, CARMANAH Design and Manufacturing, Inc., Jeld-Wen, Foard Panel, Correct Building Products, Intertech International, Gordon Composites, and IMERYS.

For more information or to register go to <http://www.aewc.umaine.edu/conference>

Lumber Drying Workshop - The Louisiana Forest Products Development Center will be hosting a comprehensive 3 day lumber drying workshop "Drying Lumber For Quality and Profit" on August 17-19, 2005. The workshop will be held at the LSU AgCenter School of Renewable Natural Resources on the LSU campus in Baton Rouge, LA. This workshop will thoroughly cover the lumber drying process from start to finish of hardwood and softwood lumber. In addition, participants will gain valuable hands-on experience in the laboratory periods. Some of the topics to be covered include wood-water relations, wood anatomy, EMC-temperature-RH, moisture meters, steam kilns and operation, kiln control principles, drying stress and degrade, statistical process control, trouble shooting, air drying and stain, and wood shrinkage. Contact Dr. Todd Shupe for more information at tshupe@agctr.lsu.edu or (225)578-6432.

The LSU AgCenter will be hosting the *Louisiana Natural Resources Symposium* on July 19-20 at the Lod Cook Conference Center and Hotel on the campus of Louisiana State University. For many years Louisiana State University hosted the premiere forestry education event in the U.S. South, then known as the LSU Forestry Symposium. A recent resurgence of interest in renewing the symposium has led to its revival. The new symposium has a new title that is more contemporary and reflective of the integration of all the natural resource disciplines.

Accordingly, the topics and sessions of the symposium have been selected to include the broad array of natural resource policy, management, and utilization issues that are critically important in the southeastern U.S. The symposium will feature papers from leading international experts covering cutting edge issues such as BMP effectiveness and water related issues, forest certification, estimation of forest carbon for large inventories, biomass utilization opportunities, new conservation programs, forest aesthetics, and much more. The target audience includes land managers, foresters, land owners, academicians, and those interested in the management and conservation of our great natural resources. A comprehensive and professional proceedings will be available to all registrants. The Symposium is being co-sponsored by the USDA Forest Service Southern Research Station; LSU School of Renewable Natural Resources; Boise Cascade, LLC; Louisiana Society of American Foresters; National Wetlands Research Center; Louisiana Forestry Association, The Nature Conservancy; Natchitoches Parish Forest Landowners Association; Southern Regional Extension Forester; and Mockler Beverage Budweiser. This program qualifies for 11 hours of Continuing Logger Education from the Louisiana Logging Council and for 7 hours of category 1 and 2.5 hours of category 2 continuing forestry education from the Society of American Foresters. For more information, please contact Todd Shupe at tshupe@lsu.edu or (225)578-6432 or Mike Dunn at mdunn@agctr.lsu.edu or (225)578-0344.

8th INTERNATIONAL CONFERENCE ON WOODFIBER-PLASTIC COMPOSITES (AND OTHER NATURAL FIBERS), Madison, Wis. – A conference on woodfiber-plastic composites and natural fiber composites will be held Monday, May 23, through Wednesday, May 25, 2005 at the Monona Terrace Community and Convention Center, Madison, Wisconsin, USA. The 3-day conference is the 8th in a series that has been held every other year in Madison. The conference is hosted by the USDA Forest Service, Forest Products Laboratory in cooperation with the American Institute of Chemical Engineers, the Norwegian University of Science and Technology, the University of Tennessee in conjunction with Oak Ridge National Laboratory, the University of Toronto and Materials & Manufacturing Ontario, and the Forest Products Society. The Monday evening reception is sponsored by Luzenac America.

For further information, contact the Conferences & Meetings Department, Forest Products Society, 2801 Marshall Court, Madison, WI 53705-2295 USA; Phone: 608-231-1361, ext. 208, Fax: 608-231-2152, E-mail: conferences@forestprod.org, <http://www.forestprod.org/confwoodfiber05.html>

Visit FPS on line at <http://www.forestprod.org/confwoodfiber05.html> to download the program/registration information, reserve exhibit space, or to submit a request for a poster presentation.

Expo 2005 Seminars FPS-Sponsored Technical Seminars at the Forest Products Machinery & Equipment Exposition, Georgia World Congress Center, Atlanta, Georgia, USA, June 23-25, 2005.

A comprehensive series of eight Seminars, sponsored by the Forest Products Society and the Southern Forest Products Association, will be offered in conjunction with EXPO 2005. These seminars are designed to complement the displays of equipment and machinery, offering practical information that can have a direct impact on your operation. There are six Technical Seminars and two Logging Seminars. Each seminar is repeated over a three-day period. The registration fee for each of the Technical Seminars (T1-T12) is \$55. Logging Seminars (L1-L4) are \$25 per seminar. Space is limited and registrations will be accepted on a first-come, first-served basis.

To view and print the publicity brochure and registration form (PDF format), please visit FPS on line at <http://www.forestprod.org/sfpa05bro.pdf>.

Call for Papers - Wood Adhesives 2005, November 2-4, 2005, Holiday Inn on the Bay, San Diego, California, USA. Sponsored by the USDA Forest Service, Forest Products Laboratory in cooperation with the Forest Products Society.

The eighth in a series of symposia sponsored every 5 years by the USDA Forest Service, Forest Products Laboratory designed to provide a comprehensive update of the science and technology of wood adhesives and bonded wood products. Information transfer during the 3-day symposium will take place via a workshop, technical and poster presentations, tabletop exhibits, and a discussion forum.

For more information, complete and submit the on line form at <http://www.forestprod.org/adhesives05callforpapers.html>. As additional information on the program is developed, it will be available at <http://www.forestprod.org/conf2005.html>.

The Second European Conference on Wood Modification (ECWM) will take part on 6th/7th October 2005 in Goettingen. The web-address is: <http://www.ecwm.uni-goettingen.de/home/>

Polymer Sourcing 2005 - Changing dynamics in global supply and demand. 5-7 April 2005, Radisson SAS Hotel, Hamburg, Germany. Organized by Applied Market Information Ltd.

Polymer Sourcing 2005 is a new conference looking specifically at the latest developments that will influence the whole European polymer supply chain.

<http://www.amiplastics.com/ami/Images/General/Conferences/Polymer%20sourcing/Polymer%20sourcing%20brochure.pdf>

The event will highlight the effect of geographical changes in polymer production on polymer trading and distribution in Europe. An Asian perspective on changing global patterns of polymer demand and a review of the likely impact of the new LME futures contracts on polyolefin sales will also be discussed.

Wood-Plastic Composites 2005 - The international business conference & exhibition for wood-plastic composites industry 5-7 December 2005, Austria Trend Eventhotel Pyramide, Vienna, Austria Organized by Applied Market Information Ltd. <http://www.amiplastics.com>

EMPLOYMENT OPPORTUNITIES

Professor and Head of the Department of Wood & Paper Science, College of Natural Resources, North Carolina State University, Raleigh, NC, USA.

Available: July 1, 2005

Application Deadline: Application review will begin March 1, 2005 and will continue until a suitable candidate is hired.

Position and Responsibilities:

The College of Natural Resources, North Carolina State University, invites applications for the position of Department Head of Wood & Paper Science. The successful applicant must demonstrate outstanding leadership and interpersonal skills and have a distinguished record in research and education. It is expected that the successful candidate will promote the vision and provide the administrative leadership needed to facilitate the department's research, teaching and extension missions.

The Department of Wood & Paper Science has 21 faculty that are internationally recognized for their research, teaching and extension activities. The Department offers undergraduate and graduate degrees through the Ph.D., and currently enrolls 144 undergraduate and 31 graduate students. Undergraduate curricula include Wood Products and Paper Science and Engineering, providing a talented and educated, professional workforce to meet industry needs. There are active research programs with historical strengths or emerging initiatives in wood and paper physics/chemistry; pulping, bleaching, papermaking and process engineering; bio-polymer material science and chemistry; recycling, wood machining and tooling; innovative housing technologies; composites formulation and properties; and forest biomaterials and biotechnology. North Carolina State University is a land-grant institution with strong research, teaching, and extension programs. Current enrollment is approximately 22,000 undergraduate and 6,000 graduate students. Additional information about the department can be found at

<http://natural-resources.ncsu.edu/wps/>.

The Department Head plays a key role in the recruitment and development of faculty, staff and students; oversees planning and evaluation of the department's academic, research and extension

programs; and is responsible for managing the department's budgets. The Head will work closely with industry, foundations, government and international agencies and be actively involved in fund raising to support the department's teaching, research and extension activities. He/she will represent the department and promote collaborations and partnerships with other departments in the college and university.

Qualifications:

- Ph.D. in Physical, Chemical and/or Biological Sciences and/or Engineering, or a related field of study
- Experience and qualifications for appointment to the rank of professor
- Strong organizational, leadership, team-building interpersonal and communication skills
- Commitment to teaching, research, extension, and service
- A record of obtaining funding: e.g. grants, contracts, or gifts
- Experience managing budgets with diverse sources of revenue
- Commitment to fostering diversity and a global perspective within the department
- Active involvement in discipline-related organizations
- Experience working with the wood products or paper industry.

Employment Status, Salary, and Benefits:

The position will be a full-time tenured appointment. Salary will be competitive and commensurate with qualifications and will include an administrative stipend. Benefits include employee/employer contributory retirement program; health insurance; workers' compensation; paid vacation and sick leave, and other optional benefit programs.

Applications: A letter of application, curriculum vitae and the names, titles, addresses, email addresses, and telephone numbers of at least three references should be mailed to: Dr. Barry Goldfarb, WPS Head Search Committee, Department of Forestry, Campus Box 8008, 3120 Jordan Hall, NC State University, Raleigh, NC 27695-8008. For more information, please contact Barry Goldfarb, Chair of the Search Committee (telephone: 919-515-4471, fax: 919-515-6193, email: barry_goldfarb@ncsu.edu).

NCSU is an EO/AA employer. In addition, NCSU welcomes all persons without regard to sexual orientation. For ADA accommodations, contact Barry Goldfarb. Proper documentation of identity and employability in the United States will be required.

Masters Student Assistantship, Forest Sector Certification.

The Forest Products Marketing Program/Louisiana Forest Products Development Center in the School of Renewable Natural Resources at the Louisiana State University Agricultural Center is soliciting candidates to pursue a M.S. degree in forestry with an emphasis in Certification.

Contingent on final funding approval, we are seeking to fill one available position for Summer Semester 2005.

In addition to a 2-year graduate assistantship, financial assistance for thesis research will be provided to the successful candidate. The research project objectives are 1) to better understand current and future acceptance of forest certification systems by major home retail centers and forest landowners and 2) better inform private, non-industrial forest landowners of certification so they can make decisions on which certification system, if any, is appropriate for their forestland.

Interested parties should email a Letter of Interest, Resume, and 3 references to Dr. Richard Vlosky, Director and Professor of Forest Products Marketing, email: Vlosky@lsu.edu; phone: (225) 578-4527; fax: (225) 578-4251, 227 School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA 70803

STUDENT PROFILE --- Kristin DuChateau



Kristin DuChateau is a Graduate Research Assistant working at the Wood Materials & Engineering Laboratory at Washington State University. As part of the Civil and Environmental Engineering Department, she began her work under a Weyerhaeuser Fellowship. Now nearing the completion of her master's degree work under the direction of Dr. Dan Dolan and Dr. Michael Wolcott, Kristin is demonstrating applications utilizing extruded wood plastic composites as a structural element for wood-frame construction. The prototype wood composite sill plate system aims to improve wall performance under lateral loads from earthquakes and hurricanes, along with improving moisture resistance and constructability in low-rise buildings. Development of this material application has required investigating formulations, section designs, and machining methods, as well as analyzing behavior of the improved shear wall system.

Kristin completed her bachelor's degree in civil engineering at Michigan Technological University in Houghton, Michigan, in May 2003.

DOUG'S AMUSEMENTS CORNER

Subject: Y-UP

You lovers of the English language might enjoy this . . .

There is a two-letter word that perhaps has more meanings than any other two-letter word and that is "UP."

It's easy to understand UP, meaning toward the sky or at the top of the list, but when we awaken in the morning, why do we wake UP? And then we get UP.

At a meeting, why does a topic come UP? Why do we speak UP? And why are the officers UP for election and why is it UP to the secretary to write UP a report?

We call UP our friends. We use it to brighten UP a room, polish UP the silver; we warm UP the leftovers and clean UP the kitchen. We lock UP the house and some guys fix UP the old car.

At other times the little word has real special meaning.

People stir UP trouble, line UP for tickets, work UP an appetite, and think UP excuses. To be dressed is one thing but to be dressed UP is special.

And this UP is confusing:

A drain must be opened UP because it is stopped UP. We open UP a store in the morning but we close it UP at night.

We seem to be pretty mixed UP about UP! To be knowledgeable about the proper uses of UP, look the word UP in the dictionary. In a desk-sized dictionary, it takes UP almost 1/4th of the page and can add UP to about thirty definitions.

If you are UP to it, you might try building UP a list of the many ways UP is used. It will take UP a lot of your time, but if you don't give UP, you may wind UP with a hundred or more.

When it threatens to rain, we say it is clouding UP. When the sun comes out we say it is clearing UP. When it rains, it wets the earth and often messes things UP. When it doesn't rain for awhile, things dry UP.

One could go on and on, but I'll wrap it UP, for now, my time is UP,so..... Time to shut UP....!

Oh...one more thing:

What is the first thing you do in the morning and the last thing you do at night? U-P

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 Rado Gazo, at: gazo@purdue.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.

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Society of Wood Science and Technology

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SWST Newsletter

Editor:	Rado Gazo
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Testimony Submitted to the House Appropriations Subcommittee on Agriculture, Rural Development, FDA, and Related Agencies

John Heissenbittel
Vice President, Forest & Wood Products Division
American Forest and Paper Association¹

April 8, 2005

The American Forest and Paper Association² (AF&PA) supports sustainable forest management on all forest lands and encourages funding for research programs that advance sustainable forestry. In particular, there is a need to focus resources on research that addresses forest productivity, wood utilization, inventory, and conversion of wood to produce bioenergy/bioproducts. The following recommendations concern Fiscal Year (FY) 2006 appropriations for the U.S. Department of Agriculture.

Cooperative State Research, Education, and Extension Service Programs

There is a critical need for practical research and outreach designed to produce and measure healthier, faster-growing forests. The USDA Cooperative State Research, Education, and Extension Service (CSREES) and the universities that partner with the agency play a key role on-the-ground in meeting this need.

Cooperative Forestry Research (McIntire-Stennis) Program: AF&PA recommends funding of \$22.2 million, keeping it at the FY 2005 enacted level. This program is the foundation of forest resources research and scientist education efforts at universities. It provides cutting-edge research on productivity, technologies for monitoring and extending the resource base, and environmental quality. The program is a federal-state-university partnership and one that has been highly effective in leveraging the federal investment and producing results; in fact, program funding is matched more than three times by universities with state and nonfederal funds. The Administration's FY 2006 budget request would cut program funding by 50 percent compared to FY 2005. Proceeding with the Administration's request would devastate our national forestry research capacity; thus, we strongly urge restoring funding to the FY 2005 enacted level.

National Research Initiative (NRI) Competitive Grants Program: AF&PA supports the President's request of \$250 million, provided at least 10 percent of the total is directed towards

¹ In accordance with clause 2(g)(4) of House Rule XI regarding disclosure of amount and source of Federal grants or contracts, AF&PA is hereby informing the Subcommittee of two current fiscal year federal grants from the USDA Foreign Agricultural Service. One is through the Market Access Program for \$8.8 million and a second is through the Foreign Market Development program for \$3.8 million.

² AF&PA is the national trade association of the forest, paper and wood products industry. AF&PA represents more than 200 companies and related associations that engage in or represent the manufacture of pulp, paper, paperboard and wood products. The forest products industry accounts for approximately 7 percent of total U.S. manufacturing output, employs 1.3 million people, and ranks among the top ten manufacturing employers in 42 states.

forestry research. These NRI grants are a significant source of funding for basic and applied research on forest resources, including their management and utilization. Last year, less than 6 percent of the \$180 million funding was allocated to forestry research proposals. Given the considerable potential of the program to contribute to the nation's sustainable forestry research needs, that percentage should be increased to a minimum of 10%, with specific focus on grants that support forest productivity, wood utilization, and biorefining technologies.

Renewable Resources Extension Program (RREA): AF&PA supports the President's request of \$4.1 million funding, a slight increase over the FY 2005 funding level. This program provides the foundation for extension and outreach efforts delivered to private landowners through universities. Cutting-edge forestry research is of limited benefit unless it can be effectively delivered to the nation's forest landowners.

Agenda 2020

Agenda 2020 began in 1994 as a partnership between the forest products industry and the Department of Energy's Forest Products Industry of the Future program to accelerate the research, development, and deployment of new technologies in the industry. This collaborative research is focused on forest productivity, and developing processes and technologies that can cut energy use, minimize environmental impacts, and improve overall productivity in the industry to make it more globally competitive. The partnership has expanded to include USDA.

Biomass Research and Development Initiative: AF&PA recommends \$15 million, with increased focus on production and management of forests and the efficient conversion of forest biomass into energy. USDA funding for this initiative supports key components of Agenda 2020 research, development, and demonstration for the integrated forest products biorefinery (IFPB): cultivation and production of high-quality feedstocks engineered for both bioenergy/bioproducts and traditional forest products; and conversion technologies to produce bioenergy/bioproducts at several points during the traditional harvest and manufacturing process. This IFPB research helps ensure sustained, healthy forest productivity as the industry evolves into a producer of high-valued, renewable, carbon-positive bioenergy and bioproducts.

Conclusion

AF&PA appreciates the chance to provide the Subcommittee with testimony regarding FY 2006 appropriations for the U.S. Department of Agriculture. The funding levels proposed for the programs listed above will help promote sustainable forest management on our nation's public and private lands.