

# SWST Newsletter

## ~ April 2009 ~



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### **Note from the Editor**



Did you know that SWST has a [Code of Ethics](#)? That Code, and everything else related to the Society, is available on the [web](#).

Please send items for the June 2009 SWST Newsletter to me by the end of May.  
[AdamTaylor@utk.edu](mailto:AdamTaylor@utk.edu)

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## **SOCIETY OF WOOD SCIENCE AND TECHNOLOGY CODE OF ETHICS**

The Code of Ethics Canons are adopted by the Society of Wood Science and Technology and are intended to guide the professional conduct of members of the Society in their relations with the public, their employers, and each other. Compliance with these canons helps to assure just and honorable professional and human relationships, mutual confidence and respect, and competent service to society.

### **CANONS**

1. Members will strive to protect the safety, health and welfare of the public in the performance of professional assignments.
2. Members will inform the public truthfully about wood, the wood-based industries, and the profession of wood technology, and will discourage misrepresentation.
3. Members will base public statements, including those made as an expert witness, on knowledge or honest opinion and will indicate sources of information when necessary. Furthermore, the member will indicate on whose behalf the statements are made.
4. Members will support the conservative use of natural resources and will strive for increased efficiency within the industry.
5. Members must avoid conflicts of interest and will inform an employer of possible conflicts with vendors, contractors or consulting clients, and will avoid double payment for the same service.
6. Members will not disclose the business affairs or processes of present or past employers without proper consent.
7. Members will perform only those services for which they are qualified. members will engage, or advise employers to engage, other experts and specialists in Wood Science and Technology or related fields whenever the employer's interest would be best served by such action, and members will work cooperatively with other professionals.
8. Members who become aware of activities which deviate from accepted professional standards must advise the appropriate people of the consequences of such deviation.
9. Members will support the profession by sharing information and experiences with other members through attendance at technical meetings, publication, participation in SWST affairs and cooperation with educators.
10. Members will properly assign credit for original work and will give credit for the methods, ideas or assistance obtained from others.
11. Members in competition for supplying services will encourage the prospective employer to base selection on comparison of qualifications and negotiation of fee or salary. A member will not endeavor to supplant another known to have been engaged.
12. Members will not by false statement or dishonest action injure the reputation or professional associations of another members.

*Adopted June 1993  
Last updated: 5/3/00*

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# 2009 SWST ANNUAL CONVENTION

Check the website for complete information: <http://swst.org/meetings/AM09/index.html>



## 2009 SWST International Annual Convention

Wednesday, June 24, 2009  
Laurel Room at the Doubletree Hotel Boise-Riverside  
Boise, Idaho, USA  
In Cooperation with Forest Products Society

### Topic: The Role of Wood in our Green Future

- 7:30–9:30 a.m. Student Poster Competition (*Juniper Room*)
- 7:30–8:00 a.m. Registration and Coffee
- 8:00–8:30 a.m. Opening Remarks and Introductions  
Jim Funck
- 8:30–9:15 a.m. Biomaterials Consumption and our Ecological Footprint - a Sobering Comparison - Jim L. Bowyer, Director, Responsible Materials Program, Dovetail Partners, Inc, and Professor Emeritus, University of Minnesota, Department of Bioproducts and Biosystems Engineering, Minneapolis, MN
- 9:15–10:00 a.m. Life Cycle Analysis of the Forest Products Industry  
Bruce Lippke, Professor/Director, Rural Technology Initiative, University of Washington, Seattle; and James Wilson, Professor Emeritus, Oregon State University, Corvallis, OR
- 10:00–10:15 a.m. Break
- 10:15–11:00 a.m. Materials Are Green Only in Relationship to Each Other - LEED/USGBC Issues  
Jeff Howe, CEO of Fullerton Companies and Chairman of the Board, Dovetail Partners, Inc., Minneapolis, MN
- 11:00–11:45 a.m. Why Efficient Manufacturing Is the Essence of Sustainability  
Rick Fisch, Director, Innovation and Productivity Center, Northwest Food Processors Association, Portland, OR
- 11:45 a.m.–1:30 p.m. Lunch and Annual Business Meeting
- 1:30–2:15 p.m. Forest Certification - What it Really Means  
Catherine Phillips, Vice President, Sustainable Forestry, Weyerhaeuser Company, Federal Way, WA
- 2:15–3:00 p.m. Wildfires and Insects Threaten Future Timber Supplies and Our Climate  
Thomas Bonnicksen, Professor Emeritus, Texas A&M University, College Station and Visiting Scholar, California Forest Foundation, Auburn, CA
- 3:00 p.m. Closing remarks  
Jim Funck
- 3:00–6:00 p.m. Poster Session/Cash Bar (*Juniper Room*)





## Registration Form



**2009 SWST International Annual Convention**

**Wednesday, June 24, 2009**

**Laurel Room at the Doubletree Hotel Boise-Riverside  
Boise, Idaho, USA**

In Cooperation with Forest Products Society

Name: \_\_\_\_\_

Name for Name Badge: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_

Country: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: (        ) \_\_\_\_\_

Fax: (        ) \_\_\_\_\_

Email: \_\_\_\_\_

### Registration Costs\*

#### Before May 15

Attendees: \$150

Students and Retired: \$50

Exhibit Forum Participant: \$300

*(for table and one individual registration)*

#### After May 15

Attendees: \$175

Students and Retired: \$75

Exhibit Forum Participant: \$325

*(for table and one individual registration)*

\*Includes coffee break, lunch, and poster reception

Credit Card #: \_\_\_\_\_

*(VISA or MasterCard only)*

Expiration Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**OR**

Please make check payable to: Society of Wood Science and Technology

Hotel: [http://doubletree1.hilton.com/en\\_US/dt/hotel/BOIR-DT-Doubletree-Hotel-Boise-Riverside-Idaho/index.do](http://doubletree1.hilton.com/en_US/dt/hotel/BOIR-DT-Doubletree-Hotel-Boise-Riverside-Idaho/index.do)

**Doubletree Hotel Boise-Riverside**

2900 Chinden Boulevard, Boise, Idaho, United States 83714

Phone: 1-208-343-1871 • Fax: 1-208-344-1079

Room Rate: \$126 plus taxes *(includes complimentary airport shuttle)*

Mention Group Code: Forest Products Society

Room Block only held through May 27, 2009. All reservations must be guaranteed with a major credit card.

This deposit is not refundable if cancelled after 3:00 p.m. the day prior to arrival.

### Return by May 15, 2009 to:

Vicki Herian

Executive Director

Society of Wood Science and Technology

One Gifford Pinchot Drive

Madison, WI 53726-2398

Phone: 608-231-9347 • Fax: 608-231-9592 • Email: [vicki@swst.org](mailto:vicki@swst.org)

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## SWST AWARDS ANNOUNCED

The most recent **Distinguished Service Award** recipients are **Tom McLain** and **Carol Ovens**.

**Douglas Stokke** has been elected as a **Fellow** in the Society of Wood Science and Technology.

The Winners of the **George Marra Award for Excellence in Writing** are

1<sup>st</sup> Place – **Heiko Thoemen** and **Christian Ruf**. 2008. Measuring and simulating the effects of the pressing schedule on the density profile development in wood-based composites W&FS 40(3):325-338

2<sup>nd</sup> Place – **Brad Jianhe Wang**, **Chunping Dai** and **Steve Wharton**. Impact of mountain pine beetle-attacked lodgepole pine logs on plywood manufacturing. W&FS 40(3):412-426

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## SWST STUDENT POSTER COMPETITION

The deadline of April 1 is almost here to submit your application and abstract for the 2009 SWST Student Poster Competition in Boise, Idaho on June 24, 2009. Don't let your students miss the opportunity to win \$500, \$250 or \$125 for their poster and research. For more information, go to

<http://www.swst.org/meetings/AM09/StudentPoster.html>

Please pass on to all of your students, even if they are not currently SWST members. They can join and then participate in the competition.

Victoria L. Herian  
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## **SWST POSITION ON USE OF WOODY BIOMASS FOR BIOENERGY**

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A Position Paper Submitted by the Policy and Critical Issues Committee – September 2008

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### **The Issue**

Moving towards a non-fossil energy resource is likely to be one of the most important issues of the 21<sup>st</sup> century. About 85% of the global energy needs are currently produced from dwindling fossil fuel resources and the production and consumption of these fuels emits about 6.3 billion metric tons of carbon (carbon dioxide equivalent) into the atmosphere per year, adding significantly to greenhouse gas emissions. The issue is particularly important in the United States, a major energy consumer that uses about 25% of all the energy generated in the world.

The worldwide demand for energy continues to grow at a rate of about two percent per year. The rapidly expanding and developing economies of India and China and to a lesser extent many other developing countries guarantee that the global energy consumption will continue to grow at a greater rate than the US (2.6% vs. 0.8%).<sup>1</sup> These facts lead to the conclusion that the search for alternative energy resources will continue far into the future. Woody biomass has some distinct advantages as an alternative energy feedstock. Not only is wood a renewable resource, but also replacing fossil-based energy resources with biomass-based energy resources will reduce the CO<sub>2</sub> component of greenhouse gas. Therefore, increasing the proportion of global energy produced from biomass can aid in bringing the global carbon flux into equilibrium and help ensure that energy needs are met in the global economy.

Wood scientists, with their specific knowledge of wood properties and conversion technology are uniquely positioned to be leaders in the emerging bioenergy technology and policy efforts. SWST needs a policy that encourages research into woody biomass utilization.

### **Background**

Wood has always been an important energy feedstock. Not only does a ton (907 kg) of bone dry woody biomass produce about 13 million Btu (13,800 MJ) of usable energy in a commercial boiler, but also wood has the advantage of being renewable and carbon neutral. Woody biomass is expected to become an even more competitive feedstock for energy products as global concerns related to green house gas emissions and fossil fuel availability increase. At present, about 3% of the US energy and 12% of global energy is produced from woody biomass. Recent estimates suggest that the US energy production from current levels of available woody biomass could be increased to about 6% of the demand using existing technology and perhaps as high as 10% with significant improvements in the biomass handling infrastructure, and conversion

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<sup>1</sup> International Energy Outlook 2007. US Dept. of Energy. Energy Information Administration. Report DOE/EIA-0484.

technology and efficiency<sup>2</sup>. Useful energy is extracted from biomass through many processes that may have application in different locations with different needs. The combustion process produces useful energy for heat or to power steam-driven generators that produce electricity.

Alternative processes involve an intermediate step to produce a liquid or gaseous fuel that will later be used in a combustion process to deliver the energy to an end use. These alternative processes include both biochemical and thermochemical methods of breaking down wood into constituents that can produce a variety of liquid fuels such as ethanol, butanol, diesel, and bio-oil and gaseous fuels such as producer gas, synthesis gas, methane, and hydrogen. Many of these products themselves can be the feedstock for higher value bio-products with additional processing. One example is the Fisher-Tropsch process, a well known industry method of catalytic conversion of a synthesis gas into liquid hydrocarbon transportation fuels such as synthetic diesel or ethanol.

Nordic countries are ahead of the US in collecting and using biomass for energy; however, the substantial underutilization in some regions of the US provides a major new opportunity for development. While the increased use of woody biomass as a feedstock for bioenergy may place greater demands on timberland and other wood markets, it will also open up new opportunities. The search for finding the best uses for all wood products and their resources will become increasingly important and will create new opportunities for studying wood properties, genetic improvement, species selection, tree/biomass plantations, collection methods and processing technologies.

### **Challenges**

Whether the increase in the use of wood for bioenergy, biofuels, and biobased products is rapid or sluggish depends on some artificial and institutional deterrents as well as economics and environmental concerns. Some important challenges to growth in use of wood for bioenergy, biofuels and biobased products are:

- Cost of procuring and processing woody biomass feedstock can be high
  - Harvesting, transporting, processing, and marketing woody biomass requires new infrastructure
  - Available supply is often distant from the customer
  - Concerns about supply sustainability discourage investment
- Nutrients are depleted from the soil by the removal of woody biomass
- Lack of understanding exists concerning the environmental benefits of wood, especially mitigation of carbon emissions
- Marketing of bioenergy, biofuels and biobased products is insufficient to generate new demand
- Energy industry is reluctant to invest in facilities based on nontraditional fuel sources
- Competition exists for woody biomass resources from existing woody biomass users who are not using woody biomass for bioenergy

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<sup>2</sup> Biomass as Feedstock for a Bioenergy and Bioproducts Industry: The Technical Feasibility of a Billion-Ton Supply. US April 2005. Dept. of Energy. Oak Ridge National Laboratory.

Each of these challenges is also an opportunity for fostering research that will advance science-based decisions needed to move toward a non fossil fuel-based energy society.

### **Specific Actions to Encourage Bioenergy Development**

Growing public interest in developing non-fossil fuel based energy policies is providing new opportunities to support research and development of a viable, sustainable, and competitive bioenergy industry. For example the US Energy Policy Act of 2005, provides authorization for grants to owners or operators of facilities that use biomass as a raw material to produce electricity, sensible heat or transportation fuels, and for research opportunities to improve the use of, or add value to, biomass. Research focused on selecting the best feedstock, improving energy conversion efficiency, finding new conversion pathways and reducing the processing costs will continue to increase the production efficiencies of biomass-based energy products. The science and technology needed to advance the utilization of woody biomass for bioenergy when combined with public commitment will result in an increase the energy independence of nations and will have positive global environmental benefits.

Our society now needs to take an advocacy position on the effective use of woody biomass if energy independence and greenhouse gas reduction objectives are to be achieved. SWST should take a leadership role in encouraging the development of novel energy generation processes from woody biomass. Specific recommendations include:

- Support an increase in government and private funding of woody biomass research
- Encourage collaborative research and education projects that focuses on woody biomass based products
- Encourage identification of sustainable biomass supplies from public and private forests
- Encourage innovative research on the use of woody biomass as a feedstock for value-added products
- Educate the public, private enterprise, and the policy makers on the value of managing a sustainable woody biomass resource for products beneficial to society's needs

### **POSITION STATEMENT**

Woody biomass will play a substantial role in a global energy future. SWST supports the increased utilization of biomass for sustainable energy production. Members of SWST have unique expertise in the utilization and processing of woody biomass. SWST and its members can help to support the development of woody biomass based energy systems and to develop advocacy positions to this end by building a science-based argument in support of woody biomass for bioenergy. Wood scientists will advocate for wood-derived bioenergy, transfer knowledge to industry and the public, and educate students about the use of woody biomass for energy.

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## **NEW FPS EXECUTIVE VICE PRESIDENT**

The Forest Products Society is pleased to announce that Stefan Bergmann has accepted the position of Executive Vice President and will begin managing the affairs of the Society on April 20, 2009.

Bergmann comes to the Society with seven years of non-profit association experience related to important forestry and forest products issues at the national level, as well as in the northeast and midwest regions. In Washington, DC, he worked on forest policy issues for the National Association of State Foresters. Following that, he served as the first staff for the Northeastern Area Association of State Foresters. He also has work experience in forestry extension and outreach at the University of Wisconsin-Madison. Most recently, Bergmann served as Executive Director of the Great Lakes Forest Alliance, an international organization that facilitates cooperative efforts to enhance management and sustainable use of forest lands in the three Lake States and the Canadian province of Ontario.

Bergmann's background provides him with a uniquely broad perspective on both non-profit management and forest product issues. His M.S. degree in Forest Resources from Oregon State University combined with his expertise in research, extension and outreach, executive management, forest policy, and his demonstrated effectiveness in working with a volunteer Board of Directors sets the stage for a promising future for the Society.

"I am excited to join the Forest Products Society team, and I am looking forward to helping strengthen the Society and chart its course for the future," said Bergmann.

The Forest Products Society Board and Staff are looking forward to the new directions in which Bergmann's leadership will take the Society and extend him a warm welcome.

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## **RENEWABLE NATURAL RESOURCE FOUNDATION (RNRF) ROUND TABLE ON PUBLIC POLICY**

February 11, 2009 at the Rayburn House Office Building, Washington, DC

Topic: Recommendations for National Water Resources Policy Updates or Changes – A Report on the American Water Resources Association Policy Dialogue Series

A panel of representatives from the sponsoring organizations of the American Water Resources Association's (AWRA) Fourth National Water Resources Policy Dialogue held in Washington, DC, September, 2008 discussed recommendations for changes in US water resources policy. The recommendations were provided to the Obama Administration's transition team. The panel was chaired by Richard A. Engberg, AWRA Technical Director, and panelists, Gerald E. Galloway, Glenn L. Martin Institute Professor of Engineering, University of Maryland; Kyle E. Schilling, Director of the U.S. Corps of Engineers Institute of Water Resources; and David Conrad, Senior Water Resources Specialist, National Wildlife Federation.

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, dams, watersheds, forests, etc., is being sorely neglected. Implications to forestry and forest products are significant; including home loss to flooding and fire, wetlands restoration, and forestland management decisions. A lively discussion on many aspects of water resource policy among the approximately 40 attendees followed the panel presentations.

Howard N. Rosen  
RNRF, SWST Representative

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## **4<sup>TH</sup> EUROPEAN CONFERENCE ON WOOD MODIFICATION**

Conference Website: <http://www.ecwm4.com/>

The next conference will be held in Stockholm, Sweden, on April 27-29, 2009, hosted by EcoBuild, an Institute Excellence Center at SP Technical Research Institute of Sweden ([www.ecobuild.se](http://www.ecobuild.se)), in cooperation with KTH, division of Building Materials.

Previous conferences were held in Ghent in 2003 (ECWM1), Göttingen in 2005 (ECWM2) and Cardiff in 2007 (ECWM3). The conference provides a forum for members of research organisations and companies to exchange experiences and ideas about the latest developments in this rapidly changing field. The conference will cover chemical, thermal, oleothermal, and mechanothermal modifications, as well as other potential technologies. Concerning wood modification applications, issues as gluing, coatings and composites technology, testing methods and standards, and environmental issues will be presented and discussed.

There will be opportunities for companies to showcase their new technologies and products to an international audience.

A large number of abstracts have been submitted, which points in the direction of a record number of participants. Enter the dates for this event in your diaries! Stay alert for the registration that will open soon! Come to Stockholm for a fruitful meeting with key researchers and industries in this exciting field at the forefront of wood technology!

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## **WOOD PROTECTION MEETING**

International Research Group on Wood Protection, 40th Annual meeting, 24-28 May 2009, Jiuhua Spa and Resort, Beijing China (go to [www.irg40.com](http://www.irg40.com) for details)

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## PRIVATE FOREST LANDOWNERS GUIDE TO CERTIFICATION IN THE SOUTH

Below is the link to a handbook jointly written by Dr. Glenn Hughes at Mississippi State University and Drs. Mike Dunn and Rich Vlosky at the LSU AgCenter titled "Private Forest Landowners Guide to Certification in the South." This was one of the Extension outputs from a multi-state SARE competitive grant. Feel free to disseminate and post the link on websites.

<http://msucares.com/pubs/publications/p2447.pdf>

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## INTERNATIONAL CONFERENCE ON WOOD ADHESIVES 2009

Co-sponsored by the Society of Wood Science & Technology

September 28-30, 2009  
Harveys Resort Hotel & Casino  
Lake Tahoe, Nevada, USA

<http://www.forestprod.org/confadhesives09.html>

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## AWPA ANNUAL MEETING IN SAN ANTONIO

Pre-registration closes on April 3. All forms and information are posted to the San Antonio Meeting website:

<http://www.awpa.com/meetings/annual/sanantonio.asp>

Here are few items and deadlines:

**Spouse Program:** The 2009 Spouse Program includes tours of the Riverwalk, San Jose Mission, King William District, the historic Guenther House and the Alamo. An overview has been posted to the website for download. **Register for the spouse program by Friday, March 13** for discounted fees – pre-registration closes on April 3. The spouse program highlights are found on the meeting web page.

**Hacker's Classic Golf Tournament:** The Quarry Golf Club in San Antonio, Texas has been selected to host the "AWPA Hackers Classic" Golf Tournament on Sunday, April 19, 2009. The Quarry will challenge and reward you in many ways. Golf registration fee includes transportation

to and from the hotel, golf cart rental, greens fees and lunch. Corporate hole sponsorship means that many prizes will be awarded. Register by April 3rd.

**Supplier's Showcase:** If your company is interested in having a booth or exhibit at the meeting, send in the Supplier's Showcase Registration Form by **March 13**.

**Pickler's Prance:** The 5K Fun Run/Walk will take place near the Riverwalk in San Antonio.

**Banquet Tickets:** There are still tables left for the Annual Banquet, so you may **contact AWPA to purchase tables** for your organization. If you wish to purchase individual tickets, you should wait until you arrive in San Antonio, as we can usually find you a place at the banquet without purchasing a ticket. If, however, you wish to ensure a ticket in advance, please contact us to purchase individual tickets. **REMEMBER:** The banquet is on Monday Night this year due to the River Parade that evening. We strongly suggest attending the banquet, since transportation and dining options will be extremely limited in downtown San Antonio that evening.

**Technical Committee Meetings:** Technical Committees will be meeting on Wednesday, April 22. Please check the website for the final meeting schedule.

**Fiesta:** The Annual Meeting will be during Fiesta, which is the biggest event of the year in San Antonio. There's something for everyone to do in San Antonio since the city is one of the top destinations in the U.S. due to its rich cultural traditions, theme parks, dining and nightlife, and shopping galore. Find out more about San Antonio at [www.visitsanantonio.com](http://www.visitsanantonio.com) and Fiesta at [www.fiesta-sa.org](http://www.fiesta-sa.org).

All information is updated on the meeting website. Please review it often for the most current information:

<http://www.awpa.com/meetings/annual/sanantonio.asp>

If you need any additional information, please contact us:

American Wood Protection Association

Telephone: 205-733-4077

Facsimile: 205-733-4075

[email@awpa.com](mailto:email@awpa.com)

[www.awpa.com](http://www.awpa.com)

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## **10TH INTERNATIONAL CONFERENCE ON WOOD & BIOFIBER PLASTIC COMPOSITES**

May 11-12, 2009  
Monona Terrace Community & Convention Center  
Madison, Wisconsin, USA

Exhibit space is available for \$695 USD (exhibit space only) or \$995 USD (exhibit space + one 2-day registration). Exhibit space includes an 8' x 10' draped display area, one 6-foot skirted display table, one chair, one exhibitor identification sign. Exhibitors may either use tables provided by Valley Expo, or bring their own stand or display. To reserve exhibit space, please visit <http://www.forestprod.org/composites09exhibits.html>.

For program and registration information, please visit <http://www.forestprod.org/confcomposites09.html>.

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### **OTHER NEW FPS EVENTS**

[FPS Midwest and Upper Mississippi Valley Sections Webinar - Woody Biomass Opportunities in the Upper Midwest - Pellets, Fuels for Schools and Electrical Generation](#)

April 16, 2009, 1:00-2:15 pm Central

[FPS Eastern Canadian Section Annual General Meeting - Innovations and Student Research - Growing the Future of the Forest Products Industry](#)

May 6, 2009, Video-Conference

[FPS Great Lakes Section Seminar - The Edge of Ingenuity - "Survival Skills for this Economy"](#)

May 12-13, 2009, Crowne Plaza Hotel, Grand Rapids, Michigan, USA

[FPS 63rd International Convention WEBINARS](#)

June 22, 2009, Join selected IC Technical Sessions via an Interactive Distance Webcast

[International Conference on Woody Biomass Utilization](#)

August 4-5, 2009, Bost Conference Center, Mississippi State University, Mississippi, USA

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## **NEWS FROM J.D. FLOWERS AND ASSOCIATES**

J.D. Flowers and Associates, The Woodproduct Group, is pleased to announce the beginning of our seventh year in business. In preparation of new opportunities, we have expanded our business presence by hiring two experienced, motivated recruiters; Jenny Morris and Daniel Guerrero, to serve our clients. On February 9, The Woodproduct Group opened a new office to meet the demands of our changing market place.

Jenny Morris brings four years of sales and marketing experience within the agricultural and industrial supply industries to the Wood Product Group. She has served as a Crop Insurance Agent and Loan Officer for First Ag Credit; a branch of the Farm Credit Bank of Texas, and as an Outside Sales Representative for Fastenal Industrial & Construction Supply Company. Jenny's competence in communications, relationship development, sales negotiations, marketing, customer service and training has cultivated her passion to help people and build relationships. She is an enthusiastic individual who will go the extra mile for her clients.

Jenny has devoted her life to agriculture, having been involved in 4-H and FFA for over 10 years. She showed poultry, lambs and steers; was a member of various FFA teams, and held several officer positions. She is a 2005 graduate of Texas A&M University, earning her Bachelor of Science degree in Animal Science. Jenny gained extensive experiences in cotton and corn production research and meat science technology while attending Texas A&M. During the summer of 2004, she was a Marketing Intern for John Deere Company where she developed her marketing and sales training talent. Jenny is currently involved in the Comal County Fair Association and the Wurstfest Association.

Daniel Guerrero brings eight years of recruiting and client relationship management experience to The Wood Product Group. He has served as a diversity recruiter and client manager for INROADS, Inc in Austin, Texas, where he was focused on placing talent within the manufacturing, engineering and IT industries. He is experienced in identifying premier talent for manufacturers of food and beverage products, semiconductor components, renewable energy solutions, oil/gas and construction materials.

Daniel also carries a passion for career coaching, training and leadership development into every relationship. He takes great pride in helping candidates produce high-quality resumes and prepare for client interviews.

Daniel received his undergraduate degree in Mass Communications from Texas State University - San Marcos and is currently pursuing a Master of Science degree in Organizational Leadership and Ethics from St. Edward's University in Austin, Texas. Daniel is active in his community having formerly served on the San Marcos City Council and as the current chairman of the Hays Central Appraisal District.

Jeff Flowers, owner and sole proprietor, is embarking into his 12th year as a wood products recruiter. His passion for the industry is reflected in his boisterous personality, immense

investment in his business and involvement in numerous industry associations. Jeff has participated in national conferences and association meetings to demonstrate his commitment to the industry's talent needs.

Jeff is the consummate relationship builder who pours himself into the lives of his clients and candidates. His infectious enthusiasm and optimism continues to drive The Woodproduct Group towards its vision. Jeff is recognized and respected by industry professionals who continue to seek his expertise.

With fresh ideas and added resources, we have broadened our horizons into innovative industry solutions. While our industry focus will continue to be wood products manufacturing, The Woodproduct Group recognizes the need to expand our professional specialties, to embrace agriculture and renewable energy technologies.

Our staff's confidence, industry experience, recruiting proficiencies, business savvy and focus on customer service will be reflected in the satisfaction of our clients and candidates. The Woodproduct Group will meet your organizations core recruiting and human resources needs.

Jenny Morris  
Project Coordinator  
Wood Product Group  
(866) 200-8717  
[www.woodproductgroup.com](http://www.woodproductgroup.com)

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### 3<sup>RD</sup> LOUISIANA NATURAL RESOURCES SYMPOSIUM

The LSU AgCenter will be hosting the third *Louisiana Natural Resources Symposium* on July 16-17, 2009 at the Lod Cook Conference Center and Hotel on the campus of Louisiana State University. The theme of the symposium is "Bioenergy Opportunities for Louisiana." The registration brochure and other information is available at [www.lsuagcenter.com/lhrs](http://www.lsuagcenter.com/lhrs) for easy registration. The 2009 symposium will feature papers from leading international experts from academia and private industry covering issues related to bioenergy. The target audience includes land managers, foresters, land owners, entrepreneurs, academicians, and those interested in this emerging opportunity. A comprehensive and professional proceedings will be available to all registrants. Early bird registration ends on July 2. Booth space and sponsorships are available for interested companies and associations. This program qualifies for 9 hours of Continuing Logger Education from the Louisiana Logging Council and for 6.5 hours of category 1 and 1.5 hours of category continuing forestry education from the Society of American Foresters. For more information, please contact Todd Shupe at [tshupe@agcenter.lsu.edu](mailto:tshupe@agcenter.lsu.edu) or (225)578-6432.

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## **RAGON JOINS LSU WOOD DURABILITY LAB**

The Louisiana Forest Products Development Center, School of Renewable Natural Resources, Louisiana State University AgCenter in Baton Rouge, La is pleased to announce that Dr. Kevin W. Ragon was added to its staff as Postdoctoral Research Scientist. Ragon has 10 years of experience, both industrial and academic, in the forest products industries where he has multiple publications and patent applications. He holds degrees in Forestry, Environmental Science, and Forest Products. Ragon completed his Ph.D. in Wood Science from Mississippi State University in 2007 where his research was focused on the Formosan subterranean termite. During his doctoral program he was selected as the Ph.D. student of the year in 2007 for his body of work during his tenure. He also received the Ron Cockcroft award from the International Research Group on Wood Protection, an outstanding service award for recovery efforts after Hurricane Katrina, and received the inaugural Thad Cochran Entrepreneurial Award for entrepreneurial work with his intellectual property.

Also during his doctoral work Ragon assisted with laboratory testing for wood product durability using International Accreditation Service (IAS) testing lab requirements, operated a pilot wood treatment plant, performed wood deterioration field tests and data analysis for all wood destroying organisms in accordance with numerous standardized and non-standardized test protocol. Kevin also has previous industrial experience servicing wood treating facilities, softwood and hardwood sawmills, and technical sales of remedial wood treatments to private companies and associated public utilities.

In his current position, Ragon will be directing laboratory and field testing for the LSU AgCenter's Wood Durability Lab (WDL) which functions as IAS Testing Lab #350. According to Dr. Todd Shupe who is the Director of the WDL, "Kevin's educational and employment background makes him uniquely qualified to help expand our testing capabilities and improve our service to our clients." Companies are urged to contact Ragon at [kragon@agcenter.lsu.edu](mailto:kragon@agcenter.lsu.edu) or (225) 578-4476 to see what testing services we can provide for your company.

The Wood Durability Lab at the LSU AgCenter became an ISO/IEC 17025:2005 Testing Laboratory through the International Accreditation Services (IAS) accreditation system on March 1, 2008. Additional test standards were added by IAS to the WDL approved scope of services on July 24, 2008 (Table 1). The lab essentially has been operating under ISO 17025 Guidelines for over five years.

The test standards cover a broad range of important wood durability areas such as testing for termite, mold, and fungi resistance to strength and even corrosion of fasteners in contacted with preservative-treated wood.

The Wood Durability Lab is now accredited by the International Accreditation Services to perform testing for ASTM D 143, D 1037, D 1413, D 1758, and D 3345. The approved American Wood Protection Association (AWPA) tests include E1, E7, E10, E11, E12, E16, E22,

E23, E24. The WDL is also certified to perform TM-1 and TM-2 of the Window and Door Manufacturers Association.

For more information concerning this article contact:

Dr. Todd F. Shupe, Professor

Louisiana Forest Products Development Center

School of Renewable Natural Resources

Louisiana State University AgCenter

Room 111 Renewable Natural Resources Building

Baton Rouge, LA 70803

Phone: (225) 578-6432 (Office)

Phone: (225) 578-4255 (Secretary)

Facsimile: (225) 578-4251

Email: [tshupe@agcenter.lsu.edu](mailto:tshupe@agcenter.lsu.edu)

Website: <http://www.rnr.lsu.edu/Faculty/Shupe,%20Todd.htm>

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### **XIII WORLD FORESTRY CONGRESS**

The XIII World Forestry Congress will be held from 18 to 23 October 2009 . This change is due to national legislative elections which will be taking place on Sunday 25 October.

The period for abstract submission has ended. The XIII WFC General Secretariat thankfully acknowledges the participation of the whole forestry community through the submission of more than 2500 abstracts.

We inform that, due to the extension of the deadline for submission and because of the great number of abstracts received we are compelled to extend the reviewing process up to March 31st. All of those who have submitted their abstracts will receive their results before that date.

- If you are interested in receiving further information from us, please complete the following contact form.
- If you wish to collaborate in spreading the news about this prestigious Congress by recommending our web page, please insert name and e-mail of addressee here.
- If you are not interested in receiving further information from us, please click here.
- If you wish to include our digital announcement in your electronic publication, please download it from here.

<http://pic.elpixel.com/link.php?M=42084&N=8&L=14&F=H>

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## IUFRO TREE BIOTECHNOLOGY CONFERENCE 2009

June 28 - July 2, 2009  
Whistler, BC Canada

[www.treebiotech2009.com](http://www.treebiotech2009.com)

<http://www.treebiotech2009.com/registration.html>> CALL FOR ABSTRACTS - OPEN

[https://events.iconsweb.net/ei/getdemo.ei?id=37&s=\\_0640V5MEP](https://events.iconsweb.net/ei/getdemo.ei?id=37&s=_0640V5MEP)> ON-LINE  
REGISTRATION

<http://www.treebiotech2009.com/location.html>> ON-LINE ACCOMMODATION  
RESERVATIONS

### IMPORTANT CALL FOR ABSTRACT DATES

Call for Papers Opens            March 5, 2009  
Call for Papers Submission Deadline        April 3, 2009  
Notification of acceptance        April 24, 2009  
WORD COUNT: Abstracts = 250

Conference Secretariat:  
International Conference Services Ltd.  
2101 – 1177 West Hastings Street  
Vancouver, BC Canada V6E 2K3  
Phone: +1-604-681-2153  
Fax: +1-604-681-1049  
E-mail: [treebio2009@meet-ics.com](mailto:treebio2009@meet-ics.com)

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## GRADUATE RESEARCH ASSISTANTSHIP UNIVERSITY OF MINNESOTA

The position, funded by a 4-year Andrew W. Mellon Foundation grant, is in the field of microbial ecology. The successful candidate will utilize classical mycological approaches and modern molecular tools to study plant-fungi interactions in the lab and in the field. Our focus is on large, long-lived fungi that decompose wood in northern forests. We aim to use molecular tools to resolve beyond presence/absence 'fingerprints' of a microbial community to connect unique and consequential aspects of biodegradation to individual wood-degradative species. The student will work within a collaborative and multidisciplinary setting, including soil microbial ecology, plant pathology, and wood microbiology. The student will have the option of obtaining



their degree through one of several tracks.

Website: <http://www.bbe.umn.edu/faculty/schilling>

Inquire to:

Dr. Jonathan Schilling  
108 Kaufert Lab  
Bioproducts & Biosystems Engineering  
University of Minnesota  
Saint Paul, MN 55108  
[schilling@umn.edu](mailto:schilling@umn.edu)

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## **PH.D. POSITION - WOOD PHYSICS/MECHANICS - ETH, ZURICH, SWITZERLAND**

<http://www.ifb.ethz.ch/wood/jobs>

A Ph.D. student position is currently available in the Wood Physics group ([Prof. Niemz](#)). The project is entitled “Design, construction and experimental application of mechanical testing equipment for in-situ tomographies on miniature wood specimens at the synchrotron beamline "TOMCAT" (PSI, Villigen)”.

In this project, tomographic in-situ synchrotron studies will be carried out at the TOMCAT beamline of the Swiss Light Source ([Paul Scherrer Institute](#)). These studies will provide an experimental basis to derive structure-property relationships for wood at the micro or sub-micro scale. The project is organised in two stages. In the first stage, a testing device adapted to the TOMCAT beamline will be developed. This device shall allow to apply a mechanical load and to change the ambient atmosphere of the specimens while tomographies of the samples are generated. In the second stage, the custom equipment will be employed to analyse effects of wood microstructure of the mechanical and failure behaviour. The main focus will be on hygro-mechanical and time-dependent aspects.

We expect

- a good to excellent degree in wood science, wood technology, civil engineering, or mechanical engineering,
- interest in scientific work,
- reliability and ability to work in teams,
- proficient MS office usage,
- preferably CAD basic knowledge.

The project has to be completed within three years. The salaries more or less comply with the [guidelines of the Swiss National Science Foundation](#). In case you are interested, please contact

[Prof. Dr. P. Niemz](#) or [Dr. D. Keunecke](#). Of course you can also send your application with supporting documents by regular mail to Prof. Niemz.

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## ABOUT SWST

The SWST Newsletter is published six times a year by the Society of Wood Science and Technology, One Gifford Pinchot Drive, Madison, WI 53705, USA. Items for the Newsletter may be sent to Adam Taylor, at: [AdamTaylor@utk.edu](mailto:AdamTaylor@utk.edu)

The Society of Wood Science and Technology is a technical and professional organization for scientists and engineers working in academia, government, consulting and the forest-products industries and is dedicated to providing education and expertise regarding better ways to use and produce wood products. Tel: (608) 231-9347 Fax: (608) 231-9592 E-mail: [yherian@fs.fed.us](mailto:yherian@fs.fed.us)  
Web site: <http://www.swst.org>

### *Society of Wood Science and Technology*

President:	Jerrold Winandy
Past President:	James P. Armstrong
President Elect:	James Funck
Vice President:	Susan Anagnost
Executive Director:	Vicki L. Herian
Directors:	Nicole Brown (2007) Eva Haviarova (2007) Vikram Yadama (2008) Robert Bush (2008)

### *Wood and Fiber Science*

Editor:	Frank Beall
Editorial Assistant:	Carol B. Ovens

*SWST Newsletter Editor* Adam Taylor

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## REPORT ON ACCREDITATION COMMITTEE ACTIVITIES.

Prepared by Rubin Shmulsky, committee chair  
3/26/2009

### **Committee Responsibilities**

1. Monitor deadlines for accreditation and notify all current SWST accredited programs of any upcoming reports or visits required in the next year. *Action: This task is up to date*
2. Coordinate and conduct on-site reviews of wood sci. and tech. programs at universities desiring accreditation.  
*Action: This task is up to date. WVU site visit is scheduled for April 19-22, 2009.*

3. Prepare recommendations for the Executive Board regarding accreditation based on the visiting team's report. *Action: In progress*

4. Review and recommend action on Yearly Reports. *Action: Yearly reports from six programs: SUNY-ESF, Univ. of ID, PN State U., U. of MN, VA Tech, MS State U. have been received. These annual reports do not appear to illustrate changes that would move any of the programs below the minimum standards. It is recommended that the reports be accepted and that no further action be taken. One program, WV Univ., is planning site visit, their self study has been received and their review is in progress. Annual reports have not yet been received from three programs: OR State U., NC State U., and U of ME.*

5. Review the published standards and procedures for accreditation and recommend to Executive Board changes in the standards and procedures that would enhance the goals and needs of the profession, and improve the accreditation process. *Action: This activity is ongoing.*

6. Annually report accreditation committee activities to the Society through the Member Newsletter (April 15 deadline) and at the International Convention. Ensure that the table of accreditation status published by the society is accurate and up-to-date. Provide periodic reports for Fall and Spring Board Meetings.

*SWST Committee Handbook 2008-2009 12 12/23/08*

**Special Charge for 2008-2009:**

1. Perform and report on Universidad del Bio-Bio Accreditation visit in November 2008. *Action: Self study was received. Report from visiting team has not yet been received. Recommendation: take no action until visiting team submits site visit report.*

2. Initiate 2009 West Virginia Accreditation. *Action: in progress.*

3. Inform the Executive Board of feedback for October 2008 W&FS Editorial on Accreditation. *To date, no feedback has been received by the committee chair*

4. Seek input from SWST members and identify potential university programs not currently accredited. *Action: Universidad bio-bio is under review, University of Laval is interested in exploring the SWST accreditation process.*

5. Review impact of recent revisions in Accreditations Handbook. *Action: ongoing*

6. Define the “core” competencies around which the SWST Accreditation Program should be based. *Action: No action to report to date.*

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## EDUCATION COMMITTEE REPORT

Jim Armstrong, Chair  
April 3, 2009

The SWST Education Committee was given the following two "special charges" for 2009:

- Conduct survey to identify the need for a "Learning Outcomes Assessment" from SWST academic programs and develop a consensus on what are the basic concepts of wood science and technology.
- Develop a database of standardized test questions to evaluate students on the basic concepts of wood science and technology.

An e-mail survey of Education Committee members, WST program heads, and the university contacts listed in the Committee Handbook was conducted in January. The following was included in the e-mail:

*It was suggested that SWST could provide a service to programs by assembling a database of test questions generated by educational experts in our respective specialties that could be shared with programs to be used on a strictly voluntary basis as a measure of assessment. This idea came about in response to several programs receiving criticism/recommendations that we should employ "standardized tests" such as licensing exams, ACT- COMP, or discipline specific GRE exams. Of course, no such exams exist in wood science. The database of test questions could be employed by programs if they choose as a substitute for the standardized tests that exist in other disciplines.*

*If we have support for this idea, the results would be independent of the SWST Accreditation. Programs could choose to employ the questions and report it in the accreditation process but they would not be required to do so.*

*In order to meet these charges, I need to ask three questions:*

- 1. Would this idea be useful to your program's assessment efforts?*
- 2. If there is support for this idea, who would you recommend we contact in the basic wood science disciplines of wood anatomy, wood chemistry, physical properties, and mechanical properties?*
- 3. Is there anything else SWST could do to help programs meet the demands for better outcomes assessment?*

Only one of the respondents indicated that this would be useful. The rest were of the replies indicated no interest or opposition to the idea. As such, we recommend that those programs that wish to cooperate in such an effort do so independently of SWST.

Other special charges to the Committee included:

- “Complete the directory of international wood science and technology academic programs for distribution to members, perhaps on the web. Submit to the Board by February 1, 2008.” This task is being completed by a graduate student under the direction of Dr. Eva Haviarova and is nearing completion.
- “Survey accredited programs and compile a guide of successful recruiting activities for distribution to members and program heads. Submit report to the Board by February 1, 2008.” This survey is the master’s degree project of a student in the Public Relations Department at WVU. It has yet to be completed.

E-mails were sent to university contacts requesting that the February SWST Newsletter be distributed to students along with information on joining the Society as student members.

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## **PAST PRESIDENTS’ COUNCIL REPORT**

Jim Armstrong, Chair  
April 3, 2009

The Past Presidents Council is pleased to announce that Ms. Carol Ovens and Dr. Tom McLain have been selected as the 2009 recipients of the SWST Distinguished Service Award. Dr. Doug Stokke was named an SWST Fellow. The recipients will be honored at the Annual Convention in Boise.

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## **SWST POLICY AND CRITICAL ISSUES ANNUAL REPORT**

Members –Sue Levan-Green, Eini Lowell, Qinglin Wu, Bill Boehner, John Shelly, Bruce Lippke, Dan Wheat, Terrance Connors

- 1) Completed Position Paper on Woody Biomass for Energy Production in September of 2008
  - Sent copies to key environmental advisors for Presidential candidates Barack Obama and John McCain.
  - Sent pre-release or copies of the Position Paper to over 170 people and organizations interested in biomass for energy throughout the United States
- 2) Began working on the Position Papers:
  - Advantages of using lignocellulosic biomass rather than food products for bioenergy
  - Need for hazardous fuels reduction on public lands

Howard Rosen, Chair  
March 23, 2009



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## **VISITING SCIENTIST COMMITTEE REPORT**

Vikram Yadama and Doug Stokke, Visiting Scientist Committee 2008-2009

27 March 2009

*Proposal to use VSP Funds to promote participation by students and researchers.*

The following ideas were brought about by Doug Stokke previously in an email to SWST board for improving participation in the Visiting Scientist Program:

1. Provide grants to faculty and staff from any institute to partially subsidize attendance to a conference that can be mixed with a visit and exchange of ideas with the host institute or nearby research facility.
2. Provide funds to faculty to travel to research collaborators to develop a proposal – travel and accommodation funds (seed money).
3. Provide grants to PhD students to spend a semester or summer in an institute of their choice to conduct part of their research – this institute may offer specialized equipment or have a researcher specializing in similar field that student can use or be mentored by.
4. Sponsorship of small projects internationally for a group of wood scientists (group of three to five) who can provide social services for betterment of the local community – such as forest management, small scale industry, education of the youth, habitat for humanity, etc.

Additional comments include:

- Require the PhD students to present a poster at the following SWST meeting or submit an article to the Wood and Fiber Science after completion of work as stated in Point #3 above.
- Use to funds to establish and sponsor Wood Scientists without Borders to help with social and economic development similar to what is stated in point 4 above. This will truly give SWST an international dimension and face time to attract members from all parts of the world. This should be considered as a long term goal.

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## **WOOD AND FIBER SCIENCE EDITOR'S REPORT FOR SPRING BOARD MEETING**

From: Frank Beall

20 March 2009

●41/2(April) will be issued with 10 research papers, the same number as in 41/1. As of this date, we have 12 papers in the review process, 10 being revised, and 2 moving ahead to galley (including a TN). We are seeing a dwindling number of manuscripts submitted from the US. Those since 41/1 are now about 1/3 from the US. The publication record over the past year is at the bottom of this report. I am now tracking pubs in WS&T and HF to see their number of articles per issue and how many authors are from the US.

- Starting with 41/1, after approval of the galley, the titles of papers (prepublications) have been posted with links to the PDF.
- Time to publication. We have cut our time to publication by more than 50% over the past year. For issue 41/2 (April), the time to hard copy publication will be 6 months, and that to prepublication 4 months. This is about as good as it can get.
- No new books reviews have been recommended.
- We just completed the review of our first Technical Note. TN instructions will appear on the inside back cover of WFS (starting with the April issue) and is now on the SWST web page.
- CORRIM special issue. At this time, we have 6 papers received (with a total of 12 planned). The co-editors have not yet chosen reviewers for the manuscripts.
- Repeated below are the Impact Factors for the past two years; they're published about mid-year for the previous year, so we won't have the 2008 numbers until about mid-2009.

	2006	2007	Change (%)
Holzforschung	1.014	0.811	- 20
Wood Science and Technology	0.74	0.691	- 6.6
IAWA Journal		0.687	
Wood and Fiber Science	0.54	0.555	+2.7
Forest Products Journal	0.387	0.351	- 9.3

#### ● Publication Report

As reported previously, below is both historical and current information.

Issue	40/1 (Jan)	40/2 (Apr)	40/3 (Jul)	40/4 (Oct)	41/1 (Jan)	41/2 (Apr)
Articles	14	16	16	18	10	10
Pages	132	163	168	200	100	100
Ave pub (mo)	13	14	11	9	6(7)*	6(4)*

\*Starting with 41/1, time to publication has two categories (average times to preprint posting and hard copy issue).

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**2008**

**LIST OF POTENTIAL SWST  
VISITING SCIENTISTS**

**ACDA, MENANDRO N.**, University of the Philippines Los Banos, Dept. of Forest Products and Paper Science, College, Laguna, Philippines 4031 (+63 49 536 3432) (FAX +63 49 536 3206)  
email: mnacda@yahoo.com

**Specialty:** Termite biology and control.

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

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

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

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

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

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

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

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

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

**Specialty:** Wood deterioration and preservation.

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

**BEALL, FRANK C.**, University of California Berkeley, College of Natural Resources,

1301 South 46th Street, Richmond, CA 94804 (510-665-3536) (FAX 510-665-3427)  
email: frank.beall@nature.berkeley.edu

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

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

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

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

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

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

**Will Discuss Informally:** Almost anything.

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

**Specialty:** Forest products marketing and management

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

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

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

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

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

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

and industry research departments (including machinery and resin suppliers), and summarize what general lessons can be learned from these case histories.

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

**Specialty:** Wood drying.

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

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

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

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

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

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

**Specialty:** Wood deterioration and protection.

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

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

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

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

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

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

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

**Specialty:** Wood engineering.

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

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

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

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



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

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

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

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

**FUNCK, JAMES W.**, Manager, Lumber & Wood Science, Weyerhaeuser Company, WTC 2B2, P.O. Box 9777, Federal Way, WA 98063-9777 (253-924-6826) (FAX 253-924-4239)

email: jim.funck@weyerhaeuser.com

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

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

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

**GARDNER, DOUGLAS J.**, University of Maine, 208 AEWB Building, Orono, ME 04469 (207-581-2846) (FAX 207-581-2074) email: douglas.gardner@umit.maine.edu

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

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

**Will Discuss Informally:** Anything.

**GLASSER, WOLFGANG G.**, Professor of Wood Chemistry, Virginia Polytechnic Institute and State University, Department of Wood Science & Forest Products, 210 Cheatham Hall, Blacksburg, VA 24061 (540-231-4403) (FAX 540-231-7664) email: wglasser@vt.edu

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

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

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

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

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

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

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

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

**GUPTA, RAKESH.**, Oregon State University, Department of Wood Science & Engineering, 114 RH, Corvallis, OR 97331 (541-737-4223) (FAX 541-737-3305)

email: rakesh.gupta@oregonstate.edu

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

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

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

**IFJU, GEZA,** Department of Wood Science & Forest Products, Virginia Polytechnic and State University, 210 Cheatham Hall, Blacksburg, VA 24060-0323 (540-231-8215)  
(FAX 540-231-8868) email: ifju@vt.edu

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

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

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

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

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

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

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

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

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

**Will Discuss Informally:** Interdisciplinary studies.

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

**Specialty:** Wood physics and composites.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Specialty:** Drying of hardwood lumber.

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

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

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

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

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

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

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

**Will Discuss Formally and Informally:** Any aspect of particleboard, flakeboard, fiberboard,

and composites; The board industry in other parts of the world.

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

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

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

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

**McLAIN, THOMAS E.**, Professor of Timber Engineering and Department Head, Oregon State University, 119 Richardson Hall, Corvallis, OR 97331-5751 (541-737-4257) (FAX 541-737-3385) email: Thomas.McLain.oregonstate.edu

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

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

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

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

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

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

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

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

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

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

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

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

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

**Will Discuss Formally:** On MOU between UPM and host University: 1) establish student exchange

program; 2) R&D collaboration..

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

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

**Specialty:** Wood mechanics and composites.

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

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

**SHI, SHELDON QIANG**, Mississippi State University, Forest Products Department, Box 9820, Mississippi State, MS 39762-9820 (662-325-3110) (FAX 662-325-8126) email: sshi@cfr.msstate.edu

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

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

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

**SMITH, BOB**, Associate Professor/Extension Specialist, Virginia Tech, 1650 Ramble Road, Mailcode 0503, Blacksburg, VA 24061 (540-231-9759) (FAX 540-231-8868) email: rsmith4@vt.edu

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

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

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

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

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

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

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

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

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



application of wood science and technology

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



development.

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

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

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

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

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

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

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

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

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

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

**WINANDY, JERROLD**, 9227 Katzenbuechel Road, Mazomanie, WI 53560 (608-231-9316) (FAX 608-231-9582) email: [jwinandy@wisc.edu](mailto:jwinandy@wisc.edu)

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

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

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

**WILCOX, W. WAYNE**, 4830 Faber Road, Shingle Springs, CA 95682 (530-677-2280) email: [wayne@wwwwilcox.biz](mailto:wayne@wwwwilcox.biz)

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

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

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

**YAN, NING**, Assistant Professor, University of Toronto, Faculty of Forestry, 33 Wilcocks St., Toronto, Ontario CANADA M5S 3B3 (416-946-8070) (FAX 416-978-3834) email: [ning.yan@utoronto.ca](mailto:ning.yan@utoronto.ca)

**Specialty:** Material science.

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

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

**YOUNGS, ROBERT L.**, Professor, Department of Wood Science and Forest Products, VPI & SU, Brooks Forest Products Center, Blacksburg, VA 24061-0503 (540-231-7673) (FAX 540-231-8868) email: ryoungs@vt.edu

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

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

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

**ZERBE, JOHN I.**, 3310 Heatherdell Lane, Madison, WI 53713 (608-274-0714) email: jzerbe@fs.fed.us

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

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

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