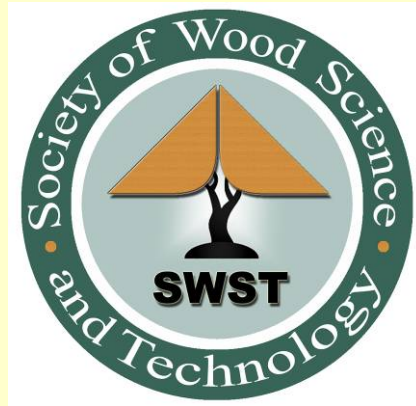


SWST Newsletter

~ June 2007 ~



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Note from the Editor



Please send your comments, and content for future editions of the Newsletter, to me at AdamTaylor@utk.edu. The next edition will come out in August.

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IN MEMORIAM KEN PETERSON

Kenneth R. Peterson, 80, of Peachtree City, GA, died on April 15, 2007. Mr. Peterson was a veteran, of WWII having served in the US Navy in the Pacific. He was a professor of Wood Technology for 11 years at the University of Illinois in Champagne, IL. He was Technical Director for eight years at The American Hardboard Association. Mr. Peterson worked at Georgia Pacific for 17 years in Atlanta, as Director of Technical Services and was Director of Technical Services at Forest Products Research Lab in Madison, WI for five years.

He is survived by his wife, Dorothy A. Peterson of Peachtree City; children, Linda Peterson, Peachtree City, GA, Bob Peterson of Pensacola, FL, Bill Peterson, Snellville, Jim Peterson, Peachtree City, Paul Peterson, Peachtree City; and 7 grandchildren. Funeral services will be held at Holy Trinity Catholic Church on Thursday, April 19, 2007 at 11:00 AM with Father John Paul Ezeonyido officiating. Interment will follow at Westminster Memorial Gardens, Peachtree City.

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\$200 MILLION FOR BIOREFINERIES

U.S. Department of Energy (DOE) Secretary Samuel W. Bodman announced that DOE will provide up to \$200 million, over five years (FY'07-'11) to support the development of small-scale cellulosic biorefineries in the United States. This Funding Opportunity Announcement (FOA) seeks projects to develop biorefineries at ten percent of commercial scale that produce liquid transportation fuels such as ethanol, as well as bio-based chemicals and bioproducts used in industrial applications. This research aims to advance President Bush's goal of making cellulosic ethanol cost-competitive with gasoline by 2012, and assist in reducing America's gasoline consumption by 20 percent in ten years by expanding the availability of alternative and renewable transportation fuels.

Small-scale projects will use novel approaches and a variety of cellulosic feedstocks to test new refining processes. These projects complement DOE's announcement earlier this year, which makes available up to \$385 million over four years for the development of six full-scale biorefineries. The full-scale biorefineries focus on near-term commercial processes, while the small-scale facilities will experiment with new feedstocks and processing technologies. Combined, these small- and full-scale projects will receive up to \$585 million in federal investment.

The FOA will support demonstration projects that test key refining processes and provide operational data needed to lower the technical hurdles sometimes associated with financing a full-size commercial plant. These projects are expected to be operational within three to four years and will speed the adoption of new technologies to produce ethanol and other biofuels from cellulosic feedstocks. Commercial-scale demonstrations would follow thereafter.

DOE requests applicants to design, construct and operate an integrated biorefinery demonstration facility, employing lignocellulosic feedstocks for the production of some combination of liquid transportation fuel(s), biobased chemicals, and substitutes for petroleum-based feedstocks and products. DOE seeks projects that can rapidly move to commercial-scale, supported by a sound

business strategy and; encourages applications that demonstrate breakthrough technologies and collaboration between industry, universities, and DOE's national laboratories.

Up to \$15 million is expected to be available in FY'07, with the remaining \$185 million expected to be available in FY'08-'11, subject to appropriation from Congress. DOE anticipates selecting 5-10 awards under this announcement. These projects require a minimum of 50 percent cost share from applicants.

Applications for this FOA are due August 14, 2007. For more information on the FOA, "Demonstration of Integrated Biorefinery Operations for Producing Biofuels and Chemical/Materials Products" - DE-PS36-07GO97003, visit: DOE's E-Center OR Grants.gov

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RESEARCH ASSISTANTSHIPS IN TIMBER ENGINEERING 2007/08

Several research assistantships are expected to become available at the University of New Brunswick during 2007 and 2008. Compensation packages will be internationally competitive and persons wishing to study at MSc and PhD levels are encouraged to apply.

Prior university level education in an engineering discipline is essential but detailed knowledge of timber as an engineering material is not. Excellence of candidates will be the primary factor in selection decisions.

Interested persons should send a brief resume and statement of technical interests to:

Ian Smith, DSc, PhD, PEng, FIABSE, FIWSc,
University Research Scholar & Professor,
University of New Brunswick,
Low-Rise Construction Group,
PO Box 44555,
Fredericton, NB, E3B 6C2
Canada
(Email: ismith@unb.ca)

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GRADUATE RESEARCH ASSISTANTSHIP IN WOOD COMPOSITES

The Wood Composites Group at UBC has an immediate full-time graduate research assistantship for an M.Sc. or M.A.Sc. candidate to aid in the development of new hollow core composite panels from wood and other ligno-cellulosic materials. Thesis work will revolve around the design and manufacture of novel panels for the modular furniture industry. This project is part of a larger collaboration with the University of Toronto and Forintek Canada Corp. The ideal candidate will possess a good academic record and have excellent analytical skills. You will investigate the design and manufacture of these panels for use in furniture and related industries. The position is open to both Canadian and international candidates.

Interested persons should contact me by email with a copy of an attached CV. However, all candidates have to apply to the UBC - Faculty of Graduate Studies by following the instructions provided at:

<http://www.forestry.ubc.ca/programs/grad/HowToApply.html>.

In order to evaluate your application quickly, it is important to initiate the application process through the above webpage as soon as possible.

Dr. Greg Smith
Associate Professor,
Department of Wood Science
University of British Columbia
2424 Main Mall,
Vancouver, BC, V6T 1Z4
Canada
greg.smith@ubc.ca

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SWST EDUCATION COMMITTEE REPORT – 2007

Submitted by Barry Goodell, University of Maine

Special Charges and Actions of the SWST Education Committee for 2006-2007:

1. Contact International education programs to provide linkages, and contacts for ongoing communication.

We are working on developing a list of International contacts for Wood Science Education. Several members have submitted contacts, and additional information has been provided by IUFRO.

The Chair is exploring the possibility of setting up the database on a “Wiki” style web site that will allow for additions and corrections by the wood science community. This would permit the easiest changes, and allow schools to correct their own entries as contact names and other information change over time. UMN has software for this type of web site set up and we are exploring potential use of this.

A draft version of all international contacts is currently available from Barry Goodell.

2. Continue work on facilitating the posting student resumes on the web. Develop a mechanism for announcements, process for handling and guidelines for the process.

The SWST Board is working on web site development which may allow for posting of student resumes, so this charge was modified over the year after different options for posting resumes were reviewed for the Board at their winter meeting.

3. Investigate the possibility of expanding into continuing education.

No activity on the charge of expanding into continuing education occurred this year.

4. Gather information on what different undergraduate programs are doing, personnel, budgets, activities, etc.

A report compiling information from North American schools has been prepared (attached) detailing:

- i) Teaching/Academic Program support (excluding faculty and teaching staff salaries.)
- ii) Internal Research Support (Support coming from your State government or from University sources)
- iii) External Research Support (For example, external grants from the State or Federal sources, Special Research Grants, USDA-NRI or NSF grant support to the program or to individual PIs for their research).

The information in this report is meant to supplement, but not duplicate, information provided by SWST accredited schools in their annual reports.

5. Update Directory of School for website

Information provided by Schools has been updated on the SWST website.

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SWST UNDERGRADUATE PROGRAM UPDATE – 2007

(Excluding information provided in annual Accreditation reports).

Prepared by the SWST Education Committee – Barry Goodell, Chair

May 25, 2007

The SWST board charged our committee to: "Gather information on what different undergraduate programs are doing-, personnel, budgets, activities, etc." Since personnel changes and other overview information is also requested in yearly accreditation reports (for accredited schools), I asked the liaisons from each school to focus on budget detail and provide budget information specifically for:

- i) Teaching/Academic Program support (excluding faculty and teaching staff salaries.)
- ii) Internal Research Support (Support coming from your State government or from University sources)
- iii) External Research Support (For example, external grants from the State or Federal sources, Special Research Grants, USDA-NRI or NSF grant support to the program or to individual PIs for their research).

Some schools were able to provide this information, some were not, and some are still trying to get the information. A compilation/summary of their responses follows.

Iowa State University – Reported by Douglas Stokke and Mon Lin Kuo

- i) Teaching/Academic Program Support (excluding faculty and teaching staff salaries) – minimal, probably \$1K per year. We often fund teaching expenses out of our own incentive (overhead return) accounts. This figure obviously does not include office staff support (which is significant and greatly needed and appreciated), nor does it attempt to estimate the costs of photocopying, classroom supplies, phone and fax charges, etc. that the Department covers for us.

The modest estimate here is for direct expense of expendable teaching lab supplies, motor pool van rental, and other direct charges used for undergraduate classes.

ii) Research Support (State government or University sources; NOTE, our total also includes State economic development and industry funding): Currently, approx. \$275K, includes multi-year projects.

iii) External (Federal) Grants/Earmarks - \$0

(Note: The SMST program, in a typical year, gets about 0.25 to 0.5 grad research assistant support from McIntire-Stennis, out of 6 GRAs Department-wide on Mc-Stennis funding. This amounts to approx. \$5-\$10K per year).

Additional Background Information/Commentary:

The SMST faculty is at present whittled to bare bones: 1.45 FTE (annualized), allocated as 0.5 research, 0.95 teaching, and 0 extension. We are encouraged that we are hiring a joint faculty appointment with the Agricultural and Biosystems Engineering (ABE) Department (70% ABE/30% NREM) with emphasis on bioprocessing and biofuels. Although our SMST undergraduate program typically runs 10-12 students (of current 80-85 forestry undergrads, down significantly from long-term average of 110-125 students), closer linkages with the Industrial Technology program within ABE (150-200 undergrads; students with similar background/interests to our products students) could have a significant, positive effect on SMST enrollments. An area of concern is in wood products extension. Eight years ago, we experienced the retirement of a long-time wood products extension specialist for the State of Iowa, with a 100% extension appointment, 12-month basis. This position went to 37.5% extension (annualized) and with 1.5 years, the position was reduced to zero with the loss of one faculty position in the products area. In addition, there have been zero extension program dollars for wood products for at least the past eight years. Nevertheless, the service/outreach needs continue, mainly for the public, but it should be noted that although the State of Iowa has a small primary wood products industry, the secondary wood processing industry (mainly windows, doors, kitchen countertops and cabinets, and office furniture systems) is large and quite significant. Although some extension service is provided to these industries by the Center for Industrial Research and Service/Manufacturing Extension Partnership, needs for expertise in wood products/wood science are in many instances inadequately addressed.

Louisiana Tech University – Reported by Mark Gibson

i) Teaching/Academic Program support (excluding faculty and teaching staff salaries.)

None, since you don't want salary included.

ii) Internal Research Support (Support coming from your State government or from University sources)

We have a branch of the LSU AgCenter's Louisiana Forest Products Development Center here at Louisiana Tech. We are allocated \$55,000 per year as support. About 72.7% of that amount covers a research associate's salary (he was just promoted to Assistant Professor-Research this fall--you know him as George Grozdits) and the rest is used for normal expenses.

These are the only funds specifically directed toward Wood Science.

iii) External Research Support (For example, external grants from the State or Federal sources, Special Research Grants, USDA-NRI or NSF grant support to the program or to individual PIs for their research).

We currently have no external research funding, except through cooperation with our College of Engineering's Institute for Micromanufacturing. George Grozdits is a Ph.D. student in Chemical Engineering and has been cooperating with engineering on pulp and paper in the nanotechnology area. No budget comes directly to our program, though.

Louisiana State University – Reported by Todd Shupe

No undergraduate program

Mississippi State University – Reported by Rubin Schmulsky

The undergraduate program is an option within the Forestry major.

Purdue University – Reported by Rado Gazo

There is no separate budget for the Wood Products Manufacturing Technology undergraduate curriculum with the Department of Forestry and Natural Resources. The four faculty (Cassen, Eckelman, Haviaroava and Gazo) have between six and 12 students in the program.

State University of New York – Reported by Susan Anagnost

i) Teaching/Academic Program support (excluding faculty and teaching staff salaries.)

The department budget is \$17,000 for supplies for teaching, copying, travel, miscellaneous (publications, professional organization activities or support, etc.). Funds for equipment are sometimes available to support teaching. The college covers many of our costs and we do not see the budget. This year we received \$2000 specifically for academic equipment.

ii) Internal Research Support (Support coming from your State government or from University sources).

We received \$8000 for equipment to be used for research or teaching.

iii) External Research Support (For example, external grants from the

State or Federal sources, Special Research Grants, USDA-NRI or NSF grant support to the program or to individual PIs for their research).

For the Construction Management and Wood Products Engineering Department at SUNY-ESF currently we have support from research grants in the amount of approximately \$ 282,000 total grant support for 3 faculty members.

University of British Columbia – Reported by Simon Ellis

All figures are in Canadian dollars.

i) Teaching/Academic Program support (excluding faculty and teaching staff salaries.)

The majority of this funding comes from an endowment established at the time that the Wood Products Processing undergraduate program was set up (1995). The equipment budget reflects the large advanced wood machinery laboratory that we have and while that area is also used for research and extension, its primary mandate is for undergraduate teaching so the total has not been broken down into those categories. The graduate teaching assistant funding comes from a central university pool. The scholarship funding indicated is that taken from our general purpose budget which is in addition to our endowed scholarships and general faculty-wide scholarships.

2003-4

| | |
|------------------------------|-----------|
| Supplies and minor equipment | \$108,000 |
| Equipment | \$70,000 |
| Graduate teaching assistants | \$51,000 |
| Scholarships | \$24,000 |

2004-5

| | |
|------------------------------|----------|
| Supplies and minor equipment | \$64,000 |
| Equipment | \$86,000 |
| Graduate teaching assistants | \$53,000 |
| Scholarships | \$24,000 |

2005-6

| | |
|------------------------------|-----------|
| Supplies and minor equipment | \$146,000 |
| Equipment | \$22,000 |
| Graduate teaching assistants | \$57,000 |
| Scholarships | \$24,000 |

ii) Internal Research Support (Support coming from your State government or from University sources).

The University and Provincial government do not provide research funding directly to our department.

iii) External Research Support (For example, external grants from the State or Federal sources, Special Research Grants, USDA-NRI or NSF grant support to the program or to individual PIs for their research).

The following funding represents that obtained by Department members from competitive research grant competitions, grants-in-aid and contracts.

2003-04

| | |
|---------------|-------------|
| Federal | \$2,317,000 |
| Provincial | \$276,000 |
| Private | \$1,440,000 |
| International | \$522,000 |
| TOTAL | \$4,554,000 |

2004-05

| | |
|---------------|-------------|
| Federal | \$2,385,000 |
| Provincial | \$0 |
| Private | \$1,375,000 |
| International | \$443,000 |
| TOTAL | \$4,203,000 |

2005-06

| | |
|---------------|-------------|
| Federal | \$2,432,000 |
| Provincial | \$734,000 |
| Private | \$711,000 |
| International | \$376,000 |
| TOTAL | \$4,253,000 |

University of Maine - Reported by Barry Goodell

Overall Summary:

In the 6 years 2001 – 2006 the total amount of federal grant and state funds received for wood-related research at UMaine, including total federal and state funds supporting wood-related research at our Advanced Engineered Wood Composites (AEWC) Center was \$34.5 million.

Detail:

i) Teaching/Academic Program support (excluding faculty and teaching staff salaries.)

We receive approximately \$1,500 per year for teaching support, and this primarily goes toward field trips and mill tour expenses for the students. A one-week mill tour requires up to three University vans for touring students in Maine and eastern Canada.

This past year the students in Forest Resources voted to provide \$26,000 of “student fee” funding (with departmental match) for the purchase of woodworking equipment and the set up of woodworking facilities.

ii) Internal Research Support (Support coming from your State government or from University sources).

The State of Maine matches our McIntire Stennis support for six faculty involved in wood research (Goodell, Gardner, Jagels, Jellison, Rice, Shaler). This figure varies from year to

year, but including graduate stipends, the proportion the state provides the six faculty would total about \$55,000/year.

Our Advanced Engineered Wood Composites (AEWC) Center receives approximately \$300,000/year in base operating funds from the University. Other match funds from the state (for example from the Maine Economic Improvement Fund - MEIF) will be variable and range up into several million dollars for large grant initiatives. In other recent grant initiatives for example, the new NSF EPSCORe Forest Bioproducts initiative, the state match, including salary match, was approximately \$4 million.

iii) External Research Support (For example, external grants from the State or Federal sources, Special Research Grants, USDA-NRI or NSF grant support to the program or to individual PIs for their research).

Wood Utilization Research (WUR) special grant funding is variable but has provided approximately \$730K/year (this program terminated this year).

A new three year NSF EPSCORe Forest Bioproducts grant (administered through Forest Chemical and Biological Engineering but a joint initiative with Forest Resources) was funded in 2006 for a total of \$10.3 million. NSF's portion was approximately \$6.2 million.)

Other individual grants from NSF/USDA etc. will vary from year to year, but we have a very productive faculty in the grants arena. One example: the AEWc was named an "Army Center of Excellence" in 2006 and a major R&D partnership with the US Army Natick Soldier Center and the Corp. of Engineers has provided \$6.2 million. A portion of this funding is being used for the development of a wood-based hybrid composite for the up-arming of army TEMPER tents.

University of Minnesota – Reported by Robert Seavey and Shri Ramaswamy

Information for 2005-2006 and calendar year 2006:

i) Teaching and Academic program support (excluding faculty and staff salaries) - \$40,000 through our instructional compact in 2005-2006

ii) Internal Research support (2006) including AES grad RA, IREE etc. - \$928,410

iii) External Grants (2006) including USDOE, USDA, EPA, MPCA, MnDoT etc.:
\$ 1,108,019 + \$ 1,353,861 + \$ 3,369,576 = \$ 5,831,456 (total)

University of New Brunswick - Reported by Ying Hei Chui

i) Teaching/Academic Program support (excluding faculty and teaching staff salaries.)

There is no wood science program at UNB. Teaching support is limited to one wood-related core course, wood technology. Typically we received a GTA (value at C\$1500) for the course plus about C\$1000 for teaching support.

ii) Internal Research Support (Support coming from your State government or from University sources)

Research grants from the provincial government totaled about \$50,000 last year.
University support for research is close to nothing, around \$3,000.

iii) External Research Support (For example, external grants from the State or Federal sources, Special Research Grants, USDA-NRI or NSF grant support to the program or to individual PIs for their research).

For year 2006-2007, the total value of research grants and contracts is estimated to be about \$1.2 million. This includes roughly about \$200,000 of research grants from federal government granting agencies and \$1.2 million of research contracts from government departments and industry.

University of Tennessee - Reported by Siqun Wang

No undergraduate program

University of Washington - Reported by David Briggs

No undergraduate program

Virginia Tech – Reported by Audrey Zink-Sharp

i) Teaching program support, excluding faculty and staff salaries:

\$64,162. (This is operating money that comes from the state - Commonwealth of Virginia - for the teaching programs.)

ii) Internal research support from our state (Commonwealth) = \$135,544. Virginia Tech internal research support was about \$100,000

iii) External research support = \$1,569,800 (This is research expenditures for 2006-2007).

West Virginia University- Reported by James Armstrong

At WVU, we draw our budget from the same pot as three other programs in the Division of Forestry and Natural Resources. Trying to separate out how much of our operating funds are used by each program is impossible. Salary information is provided it in our ten-year accreditation self-studies.

Our external research funding for wood science (5 faculty) was approx. \$650,000 last year.

I'm projecting our undergraduate enrollment in wood science for Fall 2007 between 55-60 students, including five new freshmen.

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SWST PUBLICATIONS POLICY COMMITTEE REPORT

“Wood and Fiber Science” E-Publishing

SWST Publications Policy Committee, committee members, Zhangjing Chen (Chair), David Carradine, Pascal Kamdem, Jerry Winandy, Susan Anagnost (Exec Member).

The duty of our committee was to search for a company to host the electronic copies (pdf) of current and past issues of Wood and Fiber Science. The specific jobs for the company to do include, 1) create a webpage (SWST.org or some private Internet-provider (link thru the SWST.org webpage) of all +2800 W&FS pdfs, 2) create a system by which LIBRARIES and individual can pay a fee to SWST and then they can go thru the SWST-org webpage and enter a Members only area where they could download any W&FS PDF, 3) develop a SWST.org-based system by which each new issue of W&FS is available on the SWST.org just as soon as Sheridan Press goes to press. In this webpage, all SWST members can go thru the SWST-org webpage and enter a Members only area where they could download any W&FS PDF. Also all SWST members and member-Libraries will receive an Email (with a hot link) stating the new issue of W&FS is available for viewing at SWST.org.

Our committee has looked for the domestic and overseas companies. Many large and small firms were contacted. Finally, we have collected four proposals from four interesting companies. Three of them are web-publishing service companies, IngentaConnect Service, MetaPress, Atypon Link. Another one is the local web design service, Interactive Design & Development at Blacksburg, Virginia. After receiving the proposals, our committee went over them and made selection. Many factors were considered during the process, cost, quality, location, reputation, maintenance and time frame.

Finally, we make our recommendation by corresponding with email and came to a consensus. We have preferred Metapress Company. Metapress was given a slight edge because of its reputation and location in North America.

We felt that the software company, IDD was not an acceptable option because it would require an SWST administrator to upload the documents for each new issue. With Metapress, Atypon or Ingenta, SWST is relieved of doing this work. If the Board would prefer to use a less expensive route (a software company) then the Board should be prepared to define and support an SWST site administrator.

Overall, Metapress, Atypon or Ingenta provide the same services. Atypon is the most expensive and does not appear to offer any advantages over the other two, while the costs for IngentaConnect and Metapress are very similar. Metapress is located in North America and its parent company, EBSCO, has a good reputation. Metapress has shorter time between receipt of articles and on-line access than IngentaConnect.

Now, we have selected the company. During the webpage constructing process, we suggest that a person needs to work very closely with Metapress to make sure that the proper job is done.

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MEMBERSHIP COMMITTEE REPORT 2006-2007:

Chair: Susan E. Anagnost 07

Vice Chair: Crystal Pilon

Committee members: Les Groom, Past Chair, and Hongmei GU,

Ex Officio Alain Cloutier, Board Liaison 06

Activities of the period July 2006 to June 2007:

- New membership applications: There are **83** new members for the period June 1, 2006 to May 31, 2007. The breakdown is **35** new full members, **46** new student members and **2** new affiliate member (submitted by Crystal Pilon, Vice Chair). (Last year, 45 new members; 20 full members, 24 student memberships, 1 new affiliate)
- A letter was prepared and sent via email on October 13 2006 to all delinquent members for 2006 dues payments.
- A letter was sent via email in May 2007 to all delinquent members for 2007 dues payments.
- A letter was prepared and sent via email on December 10, 2006 to all SWST accredited programs encouraging their faculty to join SWST

Special Charges for 2006-2007:

1. Conduct a membership survey
2. Follow up with delinquent members, trying to get them to reinstate.
3. Check with faculty at all SWST Accredited Education Programs and encourage membership in the Society
4. Investigate the possibility of new member services
5. Obtain annual reports from Affiliate Members

Response to Special Charges for 2006-2007:

1. Conduct a membership survey.

The membership survey was put on hold as the draft survey contained many questions concerning new services, and these new services are currently under development or have already been developed, such as resume posting and job listing on the SWST website, and electronic publishing.

2. Follow up with delinquent members, trying to get them to reinstate.

All members who had not paid dues for 2006 were sent a letter on October 13, 2006 asking them to pay their dues and reinstate their membership. The letter was sent again in May for all members who had not yet paid their dues for 2007.

In October 54 letters were sent; in May 59 letters were sent.

3. Check with faculty at all SWST Accredited Education Programs and encourage

membership in the Society A letter was prepared and sent via email to the contact persons at each of the SWST accredited programs to ask them to encourage faculty membership in the society.

4. Investigate possibility of new member services. The membership survey was to survey needs for new member services. No action has been taken by the committee as many of the services under discussion are now in place, such as the updates on the SWST website including job listings, resumes postings and access by members to the electronic publishing of W&FS. Any other ideas for new member services are welcome.

5. Obtain annual reports from Affiliate Members. A list of affiliate members was obtained from Vicki Herian. The membership committee chair will send a letter requesting an annual report from each affiliate member.

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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

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

Phone: (608) 231-9347

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E-mail: yherian@fs.fed.us

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

Society of Wood Science and Technology

| | |
|---------------------|-------------------------|
| President: | Douglas Gardner |
| Past President: | Paul M. Smith |
| President Elect: | James P. Armstrong |
| Vice President: | Jerry Winandy |
| Executive Director: | Vicki L. Herian |
| Directors: | Donald A. Bender (2007) |
| | Alain Cloutier (2007) |
| | Sue Anagnost (2008) |
| | Tony Zhang (2008) |

Wood and Fiber Science

Editor: Geza Ifju

Associate Editor: Audrey Zink-Sharp

Editorial Assistant: Carol B. Ovens

SWST Newsletter

Editor: Adam Taylor

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2005-2006

LIST OF POTENTIAL SWST VISITING SCIENTISTS

ANDERSON, MATTHEW., 3700 RT. 44, Suite 102, Millbrook, NY 12545 (845-677-3091)

(FAX: 845-677-6547) email: m.anderson@verizon.net

Specialty: Wood science consulting and applied research.

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

ARMSTRONG, JAMES P., Associate Professor, West Virginia University, P.O. Box 6125,

Morgantown, WV 26506-6125 (304-293-2941, ext. 2486) (FAX: 304-293-2441)

email: jarmstro@wvu.edu

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

Will Discuss Formally: Various topics related to forest resources in U.S. history (see: <http://www.wdsc.caf.wvu.edu/otherwebs/WDSC%20100.pdf>); Eco-terrorism--Its causes and impacts.

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

BABIÁK, MARIAN, Professor, Dr.h.c. RNDr. PhD, Technical University in Zvolen, T.G.Masaryka 24, 96053 Zvolen, Slovak republic (+421 45 5206 350) (Fax: +421 45 5330027)

email address babiak@vsld.tuzvo.sk

Specialty: Wood Structure and Properties

Will Discuss Formally: Wood Physics and Mechanics

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

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

Specialty: Wood deterioration and preservation.

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

Will Discuss Informally: Same as above.

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

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

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

Will Discuss Informally: Almost anything.

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

Specialty: Forest products marketing and management

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

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

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

Specialty: Wood science and physics.

Will Discuss Formally and Informally: Above specialty.

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

Specialty: Wood drying.

Will Discuss Formally and Informally: Above specialty.

CHOW, POO, Professor of Wood Science, Department of Forestry, University of Illinois,
W-503 Turner Hall, 1102 South Goodwin, Urbana, IL 61801 (217-333-6670) (FAX: 217-244-3219)

email: p-chow@unic.edu

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

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

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

COOPER, PAUL, Professor, Forestry Department, University of Toronto, 33 Willcocks Street, Toronto, Ontario, CANADA M5S 3B3

email: p.cooper@utoronto.ca

Specialty: Wood deterioration and protection.

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

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

CUTTER, BRUCE, Professor, University of Missouri, 203 A-BNR, Columbia, MO 65211

(573-882-2744) (FAX: 573-882-1977) email: cutterb@missouri.edu

Specialty: Tree growth, wood quality.

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

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

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DeBONIS, A. L., President, Wood Advisory Services, Inc., P.O. Box 1322, Millbrook, NY 12545

(914-677-3091) (FAX: 914-677-6547)

Specialty: Wood engineering.

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

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

Specialty: Wood chemistry.

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

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

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

Specialty: Wood performance; Problem analysis.

Will Discuss Formally: Durability; Degradation; Protection.

Will Discuss Informally: Any related issues.

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

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

Will Discuss Formally: Above listed specialties.

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

GARDNER, DOUGLAS J., University of Maine, Advanced Engineered Wood
Composites Center, Department of Forest Management, 231 AEWB Building, Orono, ME 04469 (207-581-2846)
(FAX: 207-581-2074)
email: doug_gardner@umenfa.maine.edu

Specialty: Wood adhesion; Wood composites.

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

Will Discuss Informally: Anything.

LACHENBRUCH, BARBARA, Professor, Oregon State University, Dept. of Wood Science and Engineering,
118 Richardson Hall, Corvallis, OR 97331 (541-737-4213) (FAX: 541-737-3385)
email: Barbara.Lachenbruch@oregonstate.edu

Specialty: Wood quality/silviculture interactions; Tree physiology.

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

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

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

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

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

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

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

Specialty: Engineering properties of wood.

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

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

GUPTA, RAKESH., Oregon State University, Department of Wood Science & Engineering, 114 RH, Corvallis, OR 97331 (541-737-4223) (FAX: 541-737-3305)
email: rakesh.gupta@oregonstate.edu

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

Will Discuss Formally: Above listed specialities.

Will Discuss Informally: Above listed specialities.

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

Specialty: Forest products marketing.

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

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

Specialty: Biodegradation of wood; Fungal metabolism.

Will Discuss Formally: Biological degradation of wood.

Will Discuss Informally: Interdisciplinary studies.

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

Specialty: Wood-based and composites.

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

Will Discuss Informally: Composite processing and performance.

(Newly added) Kasal, Bo, Professor and Hankin Chair, Department of Civil and Environmental Engineering, Department of Architectural Engineering, Director of Research, Pennsylvania Housing Research Center, 219 Sackett Building, University Park, PA 16802 (814 865 2341) (Fax: 814 863 7304) email: buk13@psu.edu

Specialty: Residential construction; Wood engineering.

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

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

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

Will Discuss Formally and Informally: Above specialty.

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

Specialty: MASS CUSTOMIZATION IN FURNITURE MANUFACTURING COMPANIES.

Will Discuss Formally: Linkages between Mass Customization and Competitiveness.

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

LITTLE, ROBERT L., Ph.D., R.F. Senior Project Manager, Weyerhaeuser Company. Wood Science and Engineering R&D Mail Stop: WTC 2B2 P.O. Box 9777 Federal Way, WA 98063-9777 Office: (253)924-4269 Mobile: (336)404-2132

Specialty: Drying of hardwood lumber.

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

Will Discuss Informally: General wood technology.

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

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

Will Discuss Formally or Informally: Preservation of historic wood structures; Long-term

performance of wood structures; Building systems; Deterioration of wood building materials.

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

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

Will Discuss Formally: All of the above.

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

McLAIN, THOMAS E., Professor and Department Head, Department of Wood Science & Engineering, Oregon State University, 119 Richardson Hall, Corvallis, OR 97331-5751 (541-737-4224);
<http://woodscience.oregonstate.edu> (FAX: 541-737-3385) email: Thomas.McLain@oregonstate.edu

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

Will Discuss Formally: Recruiting students into WST programs; Introductory courses in FP/WST; SWST Accreditation Standards; The changing roles of wood in modern society; Integrating extension into a research and teaching program; Pacific Northwest forest conflicts.

Will Discuss Informally: Above topics and most anything else.

MORRELL, JEFFREY J., Professor, Department of Forest Products, 230 Richardson Hall,
Oregon State University, Corvallis, OR 97331-5751 (541-7737-4222) (FAX: 541-737-3385)
email: Jeff.Morrell@oregonstate.edu

Specialty: Wood microbiology; Biodeterioration; Preservation.

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

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

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

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

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

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

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

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

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

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

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PATTERSON, DAVID W., Research Professor, Forest Products Utilization, Arkansas Forest Resources Center, P.O. Box 3468, Monticello, AR 71656 (870-460-1652)

(FAX 870-460-1092) email: pattersond@uamont.edu

Specialty: Tree weights, Bulk Density, Small Log Utilization

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

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

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

Specialty: Wood drying; Wood machining.

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

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

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

Specialty: Wood engineering, nondestructive testing, structural composite

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

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

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

Specialty: Wood mechanics and composites.

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

Will Discuss Informally: Hybrid wood composites.

SHI, SHELDON QIANG, Assistant Professor, Box 9820, Mississippi State, MS 39762-9820 (662-325-3110) (FAX: 662-325-8126) email: sshi@cfr.msstate.edu

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

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

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

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SMITH, BOB, Associate Professor/Extension Specialist, Virginia Tech, 1650 Ramble Road, Mailcode 0503, Blacksburg, VA 24061 (540-231-5876) (FAX 540-231-8868) email: rsmith4@vt.edu

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

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

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

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

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

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

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

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

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

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

opportunities in wood science and technology.

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

Specialty: Mechanics and physics of wood and wood composites.

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

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

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

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

Will Discuss Formally: Environmental aspects of wood products; Sawmilling; hydrothermal treatment of wood; and wood composite materials technology.

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

Specialty: Marketing; Forest Sector-Based Economic development.

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

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

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

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

Will Discuss Informally: Dry kiln control.

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

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

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

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

WINANDY, JERROLD, Project Leader-Engineered composites. USDA Forest Service, Forest Products Laboratory, One Gifford Pinchot Dr., Madison, WI 53726-2398 (608-231-9316)

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

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

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

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

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

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

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

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

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

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

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

Will discuss informally: Building developments and construction technology.

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

Specialty: Material science.

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

Will Discuss Informally: Durability and weathering of forest products.

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

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

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

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

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

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

Specialty: Furniture engineering.

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

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

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