

SWST Newsletter

July-August 2000

SOCIETY OF WOOD
SCIENCE AND
TECHNOLOGY

SWST

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Editor's Note



Dear Readers:

This is my first *Newsletter* following in the footsteps of John Phelps. Congratulations, John, on your retirement from the *Newsletter* Editorship! I can only hope that I will be able to maintain the schedule of meeting the *Newsletter* publishing deadlines. More than a few people have questioned my sanity in accepting the responsibility of becoming *Newsletter* Editor. However, as long as I receive news items to incorporate into the *Newsletter*, it doesn't appear to be too daunting a task. I'm also getting help here at U Maine from Kevin Kevit, the AEWTC Technical Publications Specialist. In addition, I get to go to the SWST Board Meetings in warm and interesting

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Minutes of 2000 Annual Meeting
June 18, 2000
Emerald Bay A Room
Harvey's Resort and Casino
Lake Tahoe, Nevada

Technical Session

Material Changes in Residential Construction

Wood is the most common structural material used in residential construction in the U.S. Changes in its use, however, are occurring as other material choices are increasing. Increases in material choices are attributable to a variety of reasons including new product development, a changing resource base affecting the types of products being produced, major programs by other material manufacturers to capture market share, environmental concerns in using our forests, and increasing imports of foreign materials. This program will address the changing use of wood and wood products in residential construction through examining the increasing use and availability of other materials. An environmental perspective will be examined through life cycle analysis of various construction materials.

8:00-8:15 Introduction and Welcome
 W. Ramsay Smith, Louisiana Forest Products Laboratory
 Louisiana State University
 Baton Rouge, Louisiana

8:15-8:45 Overview: The Changing Scene of Wood Products Use
 Michael O'Brian, Architect
 Center for Integrated Systems in Housing
 Virginia Tech University
 Blacksburg, Virginia

8:45-9:15 Light Gauge Steel Framing in Residential Construction

Geoffrey C. Stone, Director, Corporate Programs
 North American Steel Framing Alliance
 Washington, DC 20036-4523

9:15-9:45 Changing use of materials in residential construction: an applied scientist viewpoint
 Daniel J. Dolan, Director, Center for Integrated Systems in Housing
 Virginia Tech University
 Blacksburg, Virginia
 (Presented by Joseph Loferski, Virginia Tech)

9:45-10:15 Changes in future housing materials creating opportunities for builders
 Larry Zarker, Vice President of Marketing
 NAHB Research Center, Inc.
 Upper Marlboro, MD

10:15-10:45 Life Cycle Analysis of construction materials
 Wayne B. Trusty, President
 The Athena Sustainable Materials Institute
 Merrickville, Ontario

Approximately 60 people attended the Technical Session. Proceedings will be mailed after the meeting.

Awards Ceremony: 10:45-11:45

George Marra Awards

1st place

Jhang, Jian and Perry N. Peralta, "Moisture content-water potential characteristics curves for red oak and loblolly pine," Volume 31(4): 360-369.

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2nd place

Chowdhury, Mohammed Jahangir and Philip E. Humphrey, "The effect of acetylation on the shear strength development"

Newsletter Editor and Editorial Assistant

Awards

Certificates of Appreciation were presented to John Phelps as Editor and Patty Cludray as the Editorial Assistant.

Student Poster Competition Awards

Certificates of Participation were presented to all 23 students (3 students had to cancel at the last minute). The students were:

Roy C. Anderson, Oregon State University, "Use of Anti-Stain Chemical Treatments by the Western U.S. Softwood Lumber Industry, 2000"

Scott A. Bowe, Virginia Tech, "Assessing the Product Development Characteristics of Scanning and Optimizing Technology in the Hardwood Sawmill"

Nicole Robitaille Brown, Virginia Tech, "Establishing the Location of the Co-monomer N-methylolacryl-amide with Respect to the Latex Particles in Crosslinking Polyvinyl Acetate Adhesives"

Aldo G. Cisternas, University of Idaho, "Mechanical Properties of Ponderosa Pine Dimension Lumber from Small-Diameter, Overstocked Stands in Arizona"

Charles Clement, Purdue University, "Digitized White Birch Database--Its Creation and Use"

Jonathan Dubroc, Louisiana State University, "An Economic Analysis of a Soybean Wax Firelog"

Jerone M. Gagliano, Virginia Tech, "Mode I Fracture Energy Testing of Adhesively Bonded Wood"

Hongmei Gu, VPI&SU, "Anisotropic 2D Transient Head Conduction Model for Lumber Drying"

Eva Haviarova, Purdue University, "Construction of School Furniture Prototypes in Costa Rica"

Rebecca F. Jennings, Michigan State University, "Influence of Free Copper on Fungal Growth"

Vladimir G. Kochkin, Virginia Tech, "Development of a Ready-to-Assemble Wood Framing System"

Marie-Pierre Laborie, VPI&SU, "Morphology of the Wood-Phenol-Formaldehyde (PF) Interphase Detected by Solid State Nuclear Magnetic Resonance (NMR)"

Sang Yeob Lee, University of Idaho, "Influence of the Surface Morphology for the Growth of Transcrystalline Layer (TCL) on the Kraft Pulp Fibers"

Michael J. Malmberg, VPI&SU, "Species Dependence of pMDI Adhesive Performance Between Southern Yellow Pine and Yellow Poplar"

David Olah, Virginia Tech, "Wood Material Use in the U.S. Cabinet Industry"

Shane Robert Columba O'Neill, University of Maine, "Effect of Various Chemical Additives on VOC Emissions from Southern Pine Flakeboard"

Keith A. Scott, Virginia Tech, "Measurement of Resin Distribution in MDF Fiber"

Cihat Tascioglu, University of Maine, "Effects of Preservative Treatments on FRP Reinforcement for Wood"

Ernesto Wagner, Oregon State University, "Green Advertising of Forest Products in the United States: A Content Analysis"

Shih-Yin Wu, University of Idaho, "Effect of Slope Aspect and Scanning Intensity on the Correlation

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Between Stress-Wave Speeds in Douglas-fir Trees and Lumber MOE”

Hwanmyeong Yeo, SUNY-ESF, “A Colorimetric Technique for Determining Surface Moisture Content and Mathematical Procedure to Evaluate Mass Transfer in Wood”

Jun Zheng, Virginia Tech, “Investigations into the Nature of PF/pMDI Hybrid Adhesives”

Balazs Zombori, VPI&SU, “Modeling the Hot-Compression of Wood-Based Composites”

Judges for the competition were Fran Wagner, Mark Gibson, Cindi West and Mike Barnes. The results were:

1st place

Shane Robert Columba O'Neill, "Effect of Various Chemical Additives on VOC Emissions from Southern Pine Flakeboard," Advanced Engineered Wood Composites Center, University of Maine, Orono, ME

2nd place

Sang Yeob Lee, "Influence of the Surface Morphology for the Growth of Transcrystalline Layer (TCL) on the Kraft Pulp Fibers," Forest Products Department, University of Idaho, Moscow, ID

Honorable Mention

Nicole Robitaille Brown, "Establishing the Location of the Co-monomer N-methylolacrylamide with Respect to the Latex Particles in Crosslinking Polyvinyl Acetate Adhesives," Dept. of Wood Science and Forest Products, Virginia Tech, Blacksburg, VA

Jerone M. Gagliano, "Mode I Fracture Energy Testing of Adhesively Bonded Wood," Dept. of Wood Science and Forest Products, Virginia Tech, Blacksburg, VA

Marie-Pierre Laborie, "Morphology of the Wood-Phenol-Formaldehyde (PF) Interphase Detected by Solid State Nuclear Magnetic Resonance (NMR)," Dept. of Wood Science and Forest Products, Virginia Tech, Blacksburg, VA

Distinguished Service Award

This year's Distinguished Service Award winner was Otto Suchsland, retired professor from Michigan State University.

Professor, Wood Science (Retired 1995), PhD, Natural Sciences (Wood Technology), 1956, University of Hamburg;- BS, 1952, University of Hamburg

Research Interests

Wood composites, including particleboard and fiberboard as well as new developments utilizing recycled plastics and recycled wood fiber.

Individual research projects include dimensional stability of wood composites; effect of species composition on particleboard characteristics; use of recycled newsprint as furnish for particleboard and fiberboard; manufacture of composites from recycled wood fibers and recycled thermoplastics.

Programs and Grants

Advanced technology application to eastern hardwood utilization (USDA). Warping of overlaid particleboard (National Particleboard Association Project). Hygroscopic dimensional changes of wood and wood products (Cooperative State Research Service Project).

Past Employment

Research engineer (wood gluing) at the Swedish Forest Products Laboratory in Stockholm, Sweden, 1952-1955.

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Technologist, later Technical Director, with Elmen-dorf Research, Inc., in Chicago and Palo Alto, California, 1955-1957 (development of particleboard processes, including OSB).

Selected Publications

Suchsland, O., and Hong Xu. 1991. Resin distribution and horizontal density distribution effects on wood composite durability. A model investigation. USDA-CSRS Competitive Research Grant Program, Grant 86FSTY-9-0227. Final report. Department of Forestry, Michigan State University, East Lansing, Michigan. 49 p.

Suchsland, O., and Hong Xu. 1989. On the measurement of linear expansion of particleboard and medium density fiberboard. *Forest Products Journal* 39(6):39-42.

Suchsland, O., and G. E. Woodson. 1986. Fiberboard manufacturing practices in the United States. USDA Forest Service. *Agriculture Handbook No. 640*. 263 p.

Suchsland, O., and J. D. McNatt. 1985. On the warping of laminated wood panels. Michigan State University, East Lansing, Michigan. 120 p.

Suchsland O., G. E Woodson, and C. W. McMillin. 1983. Effect of hardboard process variables on fiberbonding. *Forest Products Journal* 33(4):58-64.

Dr. Suchsland spoke on some of the implications of his research on linear expansion with an eye toward the future.

11:45-12:45 Annual Business Meeting

Minutes of the 1999 Annual Meeting

A motion was made, seconded and passed to accept the minutes of the 1999 Annual Meeting as published in the July- August 1999 *Newsletter*.

Executive Director's Report – Herian

(See Table on page 6.)

Fidelity Spartan Money Market Fund and Vanguard Accounts

The total Vanguard accounts have grown from a beginning balance of \$61,100 on February 3, 1998, to \$81,024.49 on March 31, 2000. This is a total gain of \$20,024.49. An additional \$10,000 was transferred back into checking on August 27, 1999, due to a low balance. The Student poster money was invested in November 1998 with an initial balance of \$4,750. An additional \$1,000 was invested on August 13, 1999. The current balance in that account is \$7,587.50, for a total gain of \$1,837.50. On June 7, a check for \$1,050 was deposited in the student poster investment account from donations which were recently received. This last deposit is not reflected in the March 31, 2000, report. Charts are attached to the full report.

Checking Account

The balance in the checking account as of June 1, 2000, is \$14,132.35.

Student Poster Competition Fund History and Status

Initial donations beginning in 1998 were \$4,750, which was invested in a Vanguard 500 Index Fund in November 1998. This fund is separate from our other investment funds. Another \$1,000 received in September 1999 was also invested. The total in the account as of March 31, 2000, is \$7,587.50. I have recently received \$1,050, which was deposited on June 7. I also have invoices out for \$1,250. Our projected balance is \$9,887 plus whatever dividends we have received from March to June 2000. We're almost at the \$10,000 mark! Our goal is to use the dividends to pay for the competition each year. Currently we are awarding \$250 for first place and \$125 for second place, plus a laser plaque to each winner. Anyone else wishing to add their

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donation should contact me at the Executive Office.

This year we have 26 students participating in the Student Poster Competition.

Miscellaneous

A Balance Sheet and Income Statement for January-December 1999 and one for January-May 2000 are attached to the full report.

The 2000 Membership Directory was mailed out to members this year. If you need additional copies, please contact me.

The Directory of Schools, the Standards for Ac-

creditation, and the Member Handbook will all be revised, updated, and sent out within the next few months.

The inventory of back issues at Allen Press has been reduced to 25 copies each of the first 30 volumes, and current inventory for volumes 31 and 32 is being maintained. This should reduce our storage costs considerably.

I sent Massamba Thiam, our newest affiliate member, a welcome letter and a membership certificate.

Proposed revisions to the Constitution and Bylaws were mailed in the last *Newsletter*. They will be discussed and voted on at the Annual Meeting.

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Executive Director's Report – Herian

Current Members as of June 1, 2000

Full members	302
Student members	65
Retired members	54
Affiliate Member	<u>1</u>
	422

USA members	329
Canada members	31
Mexico members	4
Overseas members	58

Members as of June 1, 1999

Full Members	328
Student members	76
Retired members	54
Affiliate Member	<u>1</u>
	459

Subscribers as of June 1, 2000

Subscribers 273

USA	126
Canada	14
Mexico	1
Overseas	132

Subscribers as of June 1, 1999

Subscribers 281

Delinquent Members

Delinquent members as of June 1, 2000 - 54 (not paid for 2000 dues)

Delinquent subscribers as of June 1, 2000 - 47 (not paid for 2000)

Compared to delinquent members as of June 1, 1999 - 44

Compared to delinquent subscribers as of June 1, 1999 - 53

2001 Budget			
Category	Income (\$)	Expenses (\$)	Net (\$)
W&FS	78,190	58,130	20,060
Dues	20,600	--	20,600
Interest & Divi- dend	8,300	--	8,300
Mbr Services/ Meeting Exp./ Travel Exp.	10,120	15,200	(-5,080)
Admin. Exp.	--	18,000	(-18,000)
Salary & Taxes	--	22,298	(-22,298)
TOTAL	117,210	113,628	3,582

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The look of our web site has changed! It's still at www.swst.org, but we have a new look, thanks to Donna Jo Shaffer from Virginia Tech, who did the designing. I have also made our server a secure site so that credit card numbers can be sent. The membership application form is available as an on-line form now and I will continue to have other forms modified. Comments or suggestions on the web site are always welcome.

Auditor's Report – Barbara Wolfe

At your request, I reviewed the SWST bank statements for the period May 29, 1999, through May 31, 2000. Checks, deposits, VISA, MasterCard, and American Express charges, interest charges, and bank charges were verified against the statements. The checkbook balance of \$14,132.35 agreed with the checking balance on the May 2000 Balance Sheet. I also verified the account balances of the four Vanguard accounts. The \$8,861.99 on the May 2000 Balance Sheet agrees with the latest statements (March 31, 2000) received from Vanguard.

SWST Fiscal Status December 31, 1999

Balance Sheet

Total Assets \$111,587.04
 Total Liabilities \$35,024.62
 Total Equity \$76,562.42
 Total Equity and Liabilities \$111,587.04

Income Statement

1999 Budget Actual
 Total Income \$115,113.00 \$105,294.67
 Total Expenses \$110,972.00 \$115,493.03
 Net \$4,141.00 (\$-10,198.36)

2001 Budget

(See Table above.)

Wood and Fiber Science – Robert Youngs

Bob presented the following report.

Production of the Journal

The April issue (32-2) was out on time with 11 papers and a book review. It totaled 120 pages. The July issue (32-3) is at Allen Press with 12 papers. It

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will contain 128 pages. Carol Ovens has an additional 21 papers in various stages of preparation and should have plenty for an October issue at least as large as the previous one.

Attached to the full report are tables listing papers received during 1998, 1999, and so far in 2000. Rate of receipt of manuscripts is greater than that of either of the two preceding years. This is partly due to increased contributions of papers from outside of North America. The number of these has increased steadily since 1993, the years for which I have records in my file. The chart accompanying the full report illustrates this and shows that almost half of the papers received so far this year have been from outside North America. This is gratifying in terms of international recognition of *Wood and Fiber Science*, but also increases communication time in review and production. An interesting study would be to determine the frequency of citing *Wood and Fiber Science* papers in other major journals of the field and trends in such citation frequency.

As I noted in our meeting in San Antonio, about a third of the papers submitted never make it to publication, due either to formal rejection or to inability to bring papers into conformance with reviewer and/or editorial requirements. For 1998 this was 33%.

Reviewer Guidelines

We have never had detailed guidelines for reviewers. This has led to considerable freedom for reviewers to take whatever approach to reviewing that seems comfortable for them. This has produced generally very helpful reviews and I do not want to fix what ain't broke. Authors have frequently complimented reviewers for adding to the value of their papers. However, in the July issue I have introduced some points for reviewer attention that might add further consistency without detracting from the ability of reviewers to make individual comments. These same points will be useful for authors also. A copy of the material appeared in the July issue "editorial."

State-of-the-Art Papers

With the help of the Publication Policy Committee, we have generated interest in, and a basic understanding of, state-of-the-art papers. A paper on engineered composites is being prepared. Papers have been proposed on innovation adoption and diffusion and on communication technologies to facilitate business practices. These will be discussed with the Committee within the next few days.

Associate Editor Activities

Associate Editor Earl Kline has taken over responsibility for book reviews. He is also preparing a program in Microsoft Access that will replace our current Paradox database. It will incorporate a reviewer database and provide improved coordination of information between Editor, Associate Editor, and Secretary.

Bob thanked reviewers, authors, and others. He indicated that the next few issues of the journal would have more pages than previously. There is about a 1-year lag on average from receipt to publication.

Bob also announced his retirement as of June 2001. An article will be printed in the *Newsletter* asking for "letters of interest."

Committee Reports

Accreditation – Bob Rice

Virginia Tech and the University of Maine had submitted 5-year Interim Reports. The Committee recommended to the Board that these reports be accepted. On Saturday, the Board voted to accept the Committee's recommendation. The schools will be notified. The University of Minnesota will be submitting a 5-year interim report in 2001 and Oregon State University will be requesting an on-site review in 2001.

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SAF is substantially revising its accreditation standards. We don't have a copy of these standards yet, but understand the new ones are based on competency and results rather than the old standards, which were based on number of hours for each course.

We need to decide what we want to accredit and how to go about it. Tom McLain, as the new Chair of the Accreditation Committee, will be meeting with the Committee this week.

The Interim Report Guidelines will be included in the new Standards Booklet when it is reprinted.

The University of British Columbia has declined SWST accreditation at this time, but would like to be contacted at a later date.

Education Committee – Published in the May-June 2000 Newsletter

The Committee has the following ongoing responsibilities. Action under each of these for the 1999-2000 year is reported below.

1-Develop methods to attract more students into Wood Science and Technology.

Changes to the trifold brochure "Careers in Wood Science & Technology" are being explored. Members should direct comments to the Committee. Paul Smith has reviewed various web sites at universities to get ideas on how to improve our communication and message to prospective students. Participation at the MANRRS conference (see below) should improve our visibility with minority students.

2-Provide guidance for students seeking information about undergraduate, graduate, and continuing education in Wood Science and Technology.

See new special charge below. Headquarters continues to mail out information as requested.

3-Maintain current list of organizational contact persons.

List is maintained at Executive Director's office. See also the Directory of North American Schools.

4-Conduct the annual Student Poster Competition at the Annual Meeting.

The 1999 competition was the largest and best yet. Eighteen posters from students representing seven schools were presented. Alex Salenikovich from Virginia Tech won first place, while Fatima Shmulsky, Mississippi State University, won second. Students from Purdue, Michigan State, Iowa State, Idaho, and LSU competed.

Progress under each of the special charges to the committee is given below.

1- Revise Teaching Unit No.1 for delivery to the SWST Web Site and install it.

Audrey Zink-Sharp of Virginia Tech is working on installing Unit No. 1 on the web. One order for Unit No. 1 was received. (This is a continuing charge to the committee for 2000-01.)

2-Develop a process for SWST to review and accredit wood science and technology education materials produced by outside organizations.

Discussions with various members of the Education Committee question the need for this instruction. Most feel this is beyond the scope of the committee and suggest that the instruction be withdrawn. Action taken at the Spring Board Meeting has withdrawn this charge to the committee.

3-Compile a database of wood science and technology educational materials.

A list of materials has been compiled and is on hand at SWST headquarters. The Committee asks that the Executive Director place this list of materials and their availability on the web. This charge has been completed.

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4-Participate in annual Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS) Conference.

Cindi West represented SWST at the conference held in Louisville, KY, on March 30-April 1. She reports the following:

MANRRS National Conference Report

Approximately 900 students attended the 2000 MANRRS National Conference, held in Lexington, Kentucky, this year. We participated in the Career Fair held over two days during this conference. We had contact at the Fair and during social events with approximately 80 students and more than 20 faculty from other universities and colleges. There were several other Natural Resource Agencies and university programs represented, but we had the only Forest Products related program there. Oregon State University had a booth representing programs in the natural resource fields but did not include the Forest Products program. The students we met were from all regions in the country. They were prepared with well-written resumes to seek opportunities in graduate programs and employment. Many of these students had basic science degrees in chemistry, biology, engineering, and economics. They were bright and articulate. Many sought opportunities to apply their basic undergraduate science programs in a graduate program. They were heavily recruited by agriculture programs and had not considered opportunities in wood science because they were not aware of these.

We met and talked with faculty leaders of the various MANRRS chapters around the country who were interested in opportunities for their students. Most of these were associated with agriculture departments and programs and were unaware of the opportunities in the Forest Products field for students. We related job opportunities and starting salaries that impressed these faculty advisors.

This conference is a great opportunity to recruit students into graduate programs and create aware-

ness of Forest Products career opportunities with student advisors at predominantly black institutions. SWST should recommend member institutions become involved in their MANRRS Chapters. Agriculture has a great model we could follow to recruit students into our field.

Other recommendations are as follows:

- SWST should support folding MINFORS into the MANRRS rather than maintaining two organizations. MANRRS is well funded from USDA and has a full-time paid staff member.

- SWST should contact the Director of MANRRS to discuss how the Society can work with this organization to create more awareness of opportunities in Wood Science and Forest Products. If they can attract a bright young minority student into commodity crop production and processing, we can too!

- SWST should support member institutions to become involved in local MANRRS chapters. If they do not exist at their institution, encourage partnering with other departments on campus to create one. There is support from USDA to help establish these programs.

- SWST should encourage Forest Products programs and departments to participate in the USDA Scholars Internship program.

- SWST should help organize universities to participate in next year's conference so we can have a significant presence. Many agriculture and extension programs at these universities are participating. Encourage Forest Products programs to insist on being included.

5-Solicit contributions for support of the student poster competition from universities and industry.

The following members are serving on a subcommittee to contact industries and universities for contributions to the fund to support the competition

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(Todd Shupe [Chm.], Bruce Cutter, Joe Massey, Frank Beall, and Fran Wagner). Solicitation has begun. Current balance is \$7,423. Pledges received to date have put our endowment over the \$10,000 mark. Thanks to Todd and his committee for their good work.

Volunteer team members for judging posters at the upcoming annual meeting are Dan Dolan, Fran Wagner, and Bruce Cutter.

This charge will be continued for an additional year.

6-Explore opportunities for positive linkages with WOODLINKS.

The following members formed a subcommittee to explore linkages with WOODLINKS (Rado Gazo [Chm.], Jim Armstrong, Paul Cooper, William Smith, Simon Ellis). Chairman Rado Gazo reports that their interest is primarily in using SWST contacts to promote WOODLINKS in the US. Consequently, the Board at the spring meeting dropped this instruction.

A new special charge for 2000-01 given to the committee is to update the Directory of Schools. Jim Armstrong has agreed to chair this important assignment, with Paul Cooper, Perry Peralta, Robert Govett, Jeff Morrell, and Mark Gibson serving as subcommittee members. This task is scheduled for completion by the Annual Meeting.

Dan Dolan will be assuming the Chair in June and Fran Wagner has agreed to serve as Vice Chair. On a personal note, I would like to thank all the committee members for their work during my tenure as Chair. I am appreciative of all of your efforts. If Dan and Fran get as much cooperation as I have had, their job should be an easy one.

George Marra Award

The committee has been working on reading the first two issues of Volume 32.

International Relations

A report was published in the May-June 2000 Newsletter.

1. Macomb Thiam, from Dakar, Senegal, was elected to Affiliate Membership in SWST. Mr. Thiam received a master's degree from Oregon State in December of 1998. Mr. Thiam attended our SWST annual meeting in Vancouver and Merida. He has requested affiliate membership in our society to continue his interests in wood science.

2. The Committee will look for new Affiliate Members at the XXI IUFRO World Congress in Kuala Lumpur, August 7-12, 2000. We will develop an information sheet on the membership category and discreetly give this to potential members from countries fitting the Affiliate Membership criteria in our Constitution.

Public Liaison – Howard Rosen

Howard announced the RNRF National Congress, "Promoting Sustainability in the 21st Century," in Portland, Oregon, on September 6-9, 2000. Ten SWST individuals were nominated to attend.

Membership Committee – Joe Massey

A report was published in the May-June 2000 Newsletter.

New members in 1999-2000

Full	3
Student	19

The membership in the Society is decreasing. You will be receiving a questionnaire in the mail, much like the one you received a couple of years ago. Please take it seriously, completing and sending it back in to Vicki.

Dr. Sheldon Shi has accepted the nomination for

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Vice Chair of the Membership Committee. He is currently Associate Scientist of the Technical Service Division of APA - The Engineered Wood Association. He will bring to the position the energy and dedication needed to help move the membership forward in the coming year. Under the new guidelines, he will advance to Chair.

Our president charged Pat Pellicane, Bob Rice and me to recommend changes in SWST's Constitution, Bylaws and membership form to reconcile some discrepancies between the three. We were guided by a goal of minimizing changes to the Constitution, changes that wouldn't match the intent of the organization. The work is complete and has been submitted to our president for likely vote at the June 17th meeting. In a nutshell, we are proposing to change the term "member" to "professional member," and to place the scientist and practitioner requirements within the professional membership paragraph of the Constitution. We are proposing also to remove the differential and integral calculus and organic chemistry requirements from the Bylaws, retaining "foundation in mathematics" and "chemistry." The membership form will then be changed to have just the three levels of membership designated in the Constitution and brief descriptions of them on the back side with reference to the Bylaws. Proposed changes in the Constitution and Bylaws were submitted to the Executive Board and published in the Spring 2000 newsletter.

Joe announced that he had written and sent a letter to all students encouraging them to convert to full membership if they had graduated. He also wrote a letter that can be used for delinquent members and a letter to administrators. He is working on updating the previous survey form, in order to do another survey.

Newsletter Editor

Doug Gardner will take over the *Newsletter* Editor duties from John Phelps with the July-August *Newsletter*.

Past Presidents' Council

There are no nominations pending for Distinguished Service Award, so a call was made for nominations. There will be a note in the next few *Newsletters* explaining the procedure for nominating an individual.

Policy and Critical Issues Committee

The committee is working on a paper on substitution of wood-based materials. Guidelines for policy position statements have been prepared and approved by the Board. The committee will now be identifying topics and developing policy position statements per these guidelines. The guidelines will be advertised to members.

Publication Policy Committee – Barry Goodell

The report was published in the *Newsletter*. The SWST Publication Policy Committee had only one Special Charge for 1999-2000: "Identify 3-4 topic areas for State-of-the-Art (S-o-A) papers and potential authors. Advertise honorarium and other benefits and work with editor to solicit papers."

As part of this charge we identified two S-o-A topic areas. The first area, "Advanced Engineered Wood Composites," was determined to be a rapidly advancing subfield where an S-o-A paper would be useful. Professor Habib Dagher was solicited to write an article on this. Dr. Dagher has submitted an outline for the proposed paper, and the manuscript in draft form is promised for July of this year. The second area was in Information Technology for the Forest Products Industry. Professors Rado Gazo and Richard Vlosky were solicited to prepare an outline on this topic for submission to the *Wood and Fiber Science* editor. Another S-o-A paper by Professor James Bowyer, an adaptation of a paper prepared for the IUFRO Congress in Kuala Lumpur, is also being prepared and will be reviewed by the committee. An advertisement for the *SWST Newsletter* has been prepared which discusses the requirements for preparation of an S-o-A paper and

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the benefits to being an author of such a publication.

In addition, as part of our assigned responsibilities in advising the Executive Board and the Editor of *Wood and Fiber Science* on matters as requested, we approved the following statement as a modification to the official publication policy of the Society.

"Wood and Fiber Science is the official publication of the Society of Wood Science and Technology, and accordingly publishes papers with professional and scientific content. Original papers of professional concern or research papers that add to basic understanding of wood and wood fiber or the processing, marketing and use of their products will be considered. Papers that communicate research findings at the basic or fundamental level will be judged based on their contribution" (and then continuing as currently printed in *Wood and Fiber Science*)

Visiting Scientist Program – Doug Gardner

The chair will try to promote interest in the International Visiting Scientist Program for next year as we have had little participation (see Table below). Applications must be in by January 15 for travel that year. Doug will put a note in the *Newsletter*.

Old Business

None.

New Business

The Executive Board withdrew the proposed Constitution and Bylaw change due to some wording problems. It will be resubmitted to the membership next year for vote.

President's Summary

Tom McLain commented that the success of the Society is a result of the success and work of the committees and the Executive Board. This is a member-run professional society and benefits only accrue when the members are willing to invest in success. This year has seen very notable success as evidenced by the committee reports.

The Executive Board meets three times a year and puts in long hours to keep the Society running smoothly. This year we began a strategic planning process that affirmed four key goals of the society. The Board reorganized the committee structure and the timing of appointments and charges so as to give more time to complete the tasks and also the opportunity to meet as a committee at Annual Meeting time. A room will be available for any committee to meet on Sunday from 4:00 to 5:30.

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1999-2000 SWST Visiting Scientists			
Scientist	Institution Visited	When Visit Occurred	SWST Cost (\$)
Tim Rials	Virginia Tech	November	
Jim Bowyer	Virginia Tech	February 22	
Jim Bowyer	WVU	March 9	
Jim Bowyer	NC State	Late April	
Jean Mater	Virginia Tech	February 1, 2	
Rich Vlosky	Virginia Tech	February 28, 29	443.85
Steve Smulski	Maine	April 20, 21	

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A new initiative will see the Society with the opportunity to play a more consistent and effective role in public policy issues. Speaking as a profession about important, salient issues is one of the hallmarks of a professional society. To foster that voice, the Board approved new Policy Position Statement guidelines and charged the Critical Issues and Policy Committee to implement them during the upcoming year. These guidelines will be published in the *Newsletter* and offer the membership or the Board the opportunity to develop formal policy or position statements on important topics. Key to these positions will be an action plan that ensures that our position is widely known, especially to policy makers.

The Board has also been busy in finding new ways and new materials to assist in recruiting people to the profession of wood science. This will be a high priority for the next year.

Teller's Report

Bob Rice is the new Vice President; Jim Funck and Steve Smulski are the new Directors. Mike Barnes moves up to President Elect and Ramsay Smith moves up to President. Tom thanked Paul Smith and Doug Gardner for their exemplary service as Directors for the past two years. Tom also thanked David Barrett, who leaves the Board as Past-President after four years of service.

Tom McLain turned the leadership of the Society over to Ramsay Smith, the President for 2000-2001.

Ramsay thanked Tom for all the work he has done while on the Board, including designing and printing the Member Handbook, editing the Proceedings of the 1999 Annual Meeting "The Roles of Wood Science and Technology in Forest Sustainability," leading the Board in strategic planning, developing policy and position statement guidelines, restructuring the committees and charges and preparing the Committee Handbook.

Ramsay presented the President Plaque to Tom.

Ramsay's goal for the next year is to look to the vitality of the Society.

The meeting adjourned at 1:00 p.m.

Joint SWST/Forest Products Society (FPS) Plenary Sessions (1:00 to 4:00 p.m.)

Session 1: Changing raw material, changing technology

Session 2: Papermaking: Changes in chemistry, new additives, and the use of synthetics with lignocellulosic fibers

Joint SWST/FPS Technical Forum and Student Posters (4:00 to 5:30)

Joint SWST/FPS Host Reception (6:30 to 8:00)

Respectfully submitted,

Victoria L. Herian
Executive Director





News Items

AEWC Center Celebrates Grand Opening

As the 21st century dawns, opening ever-expanding vistas of rapid scientific and technological discovery, the new Advanced Engineered Wood Composites (AEWC) Center at the University of Maine stands uniquely poised to be at the forefront of researching and developing wood-nonwood composite building materials. Already an established international leader in this field, the AEW Center added substantially to its capabilities with the grand opening of its recently constructed 30,000-sq-ft facility at the University's Orono campus.

This facility includes ample laboratory, office and conference space. The Grand Opening Ceremony was well attended by members of Maine's federal and state congressional delegations, University officials, and representatives of private industry, as well as many friends and donors who contributed greatly to the Center's creation. Chief among the donors to the new facility were the National Science Foundation and the US Department of Commerce EDA.

The new AEW Center was designed carefully and specifically to be a state-of-the-art "one-stop shop" for integrated composite-materials/structural-component development. Its stated mission is "to conduct research leading to commercial development of the next generation of cost-effective, high-performance, wood-nonwood composite building materials," and it is available for assistance both with publicly and privately funded projects. The Center's in-house capabilities allow developing a composite material or structure from the conceptual stage through research, manufacturing of pilot- or full-scale prototypes, and subsequent, comprehensive testing and evaluation.

In keeping with the goal of providing comprehensive in-house services, the Center's activities and

projects are supported by the following nine, discrete laboratories, all encompassed under one roof:

- the Composite Materials Manufacturing Science (CMMS) Laboratory,
- a well-equipped Machine Shop,
- the Environmental Testing Laboratory,
- the Mechanical Testing Laboratory,
- the Micromechanics and Nondestructive Evaluation (NDE) Laboratory,
- the Microscopy Laboratory,
- the Polymer and Interface Science Laboratory,
- the Computer Modeling and Visualization Laboratory,
- the Structural Testing Laboratory.

Each is equipped for and dedicated to a specific aspect of composite-material research and development.

Speaking at the Grand Opening were U.S. Senator Susan M. Collins; U.S. Representative John E. Baldacci; Maine Representative Mary R. Cathcart; University of Maine President Peter S. Hoff; University Vice President for Research Daniel J. Dwyer; Dean of Natural Sciences, Forestry and Agriculture Bruce Wiersma; Dean of Engineering Larry Matthews; Kenway Corporation President Kenneth Priest and Maine Department of Transportation (DOT) Chief Engineer John Dority. All expressed their enthusiasm at the accomplishment of this milestone.

The AEW Center may be reached in any of the following ways:

Mailing Address:

AEWC Center
5793 AEW Bldg.
University of Maine
Orono, ME 04469-5793

Telephone: (207) 581-2123

FAX: (207) 581-2074

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E-mail: contactaewc@umit.maine.edu

Website: www.aewc.umaine.edu

The AEW Center welcomes inquiries. With advance notice, guided tours are routinely conducted for individuals and groups.

Structural Component Distributors Association Formed

On May 10, 2000, a group of structural component distributors formed a new association, the Structural Component Distributors Association (SCDA). This organization will represent the interests of all companies that distribute structural components. Examples of these structural component products include I-Joists, LVL, Glue-Laminated beams, PSL and Trimmable-end Floor Trusses.

“The driving force behind starting this organization is the significant need for technical training in our industry at the distribution level,” says Phil Barkey, President and CEO of LRC Products in Warsaw, Indiana, and President of SCDA. “It is very clear to companies in this business that for us to be successful over the long term, the technical service function holds the key and is the added value we provide. Our goal is to provide fundamental technical training and increase our overall professionalism and value to the market. More and more of our customers are relying on us to provide technical solutions for their framing needs.”

Additionally, the SCDA will be reviewing and ensuring that the work its members undertake is within the scope of work for which the industry receives compensation. Distributors are taking on more and more building design responsibilities as a result of customer demands. In order to meet customer needs, distributors of structural components sometimes undertake work that expands their business risk. This organization will of-

fer a forum for structural component distributors to discuss and address issues such as these to protect and advance the industry for everyone who transacts business within it.

For more information contact: Nicole Schultz
Telephone (Office): (608) 271-1176, ext. 28
(Home): (540) 951-0469

Website:
<http://vtwood.forprod.vt.edu/vitae/woeste.htm>

Distinguished Service Award

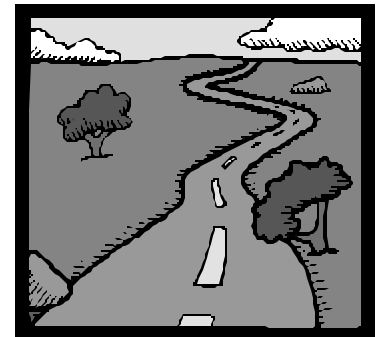
Nominations are being solicited for the Distinguished Service Award. Please make these to Tom McLain by January 15, 2001.

Accreditation News

Like many accrediting bodies including SAF, SWST will be changing its Accreditation Procedures to Outcomes Based Assessment. People with experience in Outcomes Based Assessment would be welcome to contribute to the Accreditation Committee.

Upcoming Events

Wood Truss Repair Design Workshop Announced (1.2 CEU's) Virginia Tech, October 23-24, 2000



The focus of this workshop is design procedures for the repair of broken or damaged MPC wood trusses. Repair methods and design calculations for typical cases of damaged trusses will be presented.

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The specific objectives are as follows:

- review the responsibilities of all parties when using and repairing wood trusses;
- review nail, screw, and bolt connection design provisions of the NDS-1997 applicable to truss repair;
- present nail and screw lateral design values for APA Rated plywood (and OSB) attached to truss lumber of different species;
- review engineering properties of APA-Rated plywood and OSB as needed for truss repair;
- present a design methodology for repair of roof and floor trusses; and
- demonstrate truss repair design through typical examples.

You can view the brochure and register on-line at <http://www.conted.vt.edu/woodtruss/repair.htm>

Questions about the course beyond the brochure can be addressed to Frank Woeste, P. E. by e-mail (fwoeste@vt.edu).

Frank E. Woeste, P. E.
Professor of Wood Construction
Virginia Tech
Blacksburg, VA 24061
Office: (540) 231-6093

Ligna^{plus} Hannover 2001 World Fair for the Forestry and Wood Industries

The Ligna^{plus} Hannover 2001 World Fair for the Forestry and Wood Industries will be held from May 21-25, 2001, at the Hannover Fairgrounds, Hannover, Germany. The exhibition hours will be 9:00 a.m. to 6:00 p.m. daily.

The exhibition program will include the following:

Forestry Industry: Machinery, vehicles and equip-

ment for the forestry industry; transportation and storage systems; special forestry-related presentations.

Wood Materials and Veneer Production Industry: Machinery, plants and accessories for the production of wood materials (panel products) and veneers.

Sawmill Industry: Machinery and plants for the production of sawn timber; measuring and optimization systems for log yards and sawmills; kilns and related timber-drying technologies.

Solid Wood Working: Machinery and plants for solid wood working, waste wood utilization and power generation.

Joinery: Machinery and equipment for joinery; VDMA Forum; BMKH—Crafts Center for Carpenters and Joiners; interior finishing, remodeling, construction elements.

Carpentry: Machinery and equipment for carpentry; wood construction and interiors; technical applications for wood; engineered wood; composite materials; wood trades.

Furniture Industry: Machinery, plants and facilities for industrial furniture production; automation technology.

Feature Presentations: Artistry in wood; research and education; international trade associations

Additional information is as follows:

USA Group Exhibit: USA Pavilion organized by Hannover Fairs USA

Exhibitors: 1,874 in 1999

Attendees: 110,000 in 1999

Lodging: Hannover Fairs USA Special Services Dept.

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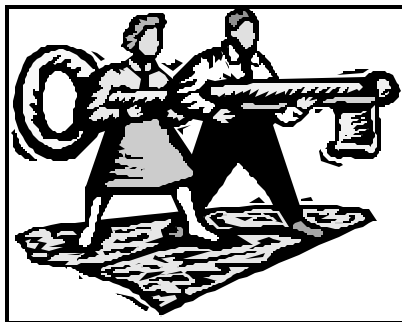
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Telephone: (609) 987-1202
FAX: (609) 987-0092
Website: travel@hfusa.com

U.S. Project Team: Brad Miller, Ellen McDevitt,
 Ingrid Abell
 Hannover Fairs USA, Inc.
 103 Carnegie Center
 Princeton, NJ 08540
Telephone: (609) 987-1202
FAX: (609) 987-1202
Websites: lignaplus@hfusa.com
 info@hfusa.com
 www.hfusa.com

**Position
 Announcements**

***New Editor for
 Wood and Fiber
 Science***



The Board will accept applications from members who have an interest in becoming Editor of *Wood and Fiber Science*. This is a paid position within the Society. It is one of the most important positions in the Society. Please send a letter of interest to Vicki by October 1, 2000. Responsibilities of the Editor can be found in the Committee Handbook. Bob indicated that he spends about 10 to 15 hours per week on Editor Duties.

Forest Products Market Analyst

**Center for Forest Products Marketing and Management
 Department of Wood Science and Forest Products
 Virginia Polytechnic Institute and State University
 Blacksburg, Virginia**

Position Description

The Market Analyst will work closely with Center faculty and staff to develop and maintain a continuous research program in the area of forest products marketing with an emphasis on solid wood production and consumption issues. The successful candidate will:

- coordinate Center research activities including periodic market surveys
- conduct research in collaboration, with members of the forest products industry and under the direction of Center faculty members,
- secure outside funding through grant proposal writing,
- present research results at regional and national meetings,
- assist in the day-to-day operation of the Center as needed in the area of member services,
- participate in continuing education programs.

Qualifications

This position will require strong analytical and statistical skills, as well as strong verbal and written communication skills. Familiarity with the forest products industry is desired. A MS in Forest Products Marketing or Wood Products is preferred. However, candidates with a MBA or MS in forestry or related fields will also be considered. Preference will be given to individuals with relevant industry experience.

Organization Information

The Center for Forest Products Marketing and Management is a program in the Department of Wood Science and Forest Products at Virginia Tech. It includes members of the Wood Science and Forest Products faculty, industry trade associations and forest products companies. The Center serves its members by providing marketing

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research, and formal and informal education in the field of forest products marketing and management.

Salary Information

This position provides \$36,000 to \$40,000 per year and all Virginia State employee benefits, including the opportunity to take courses at Virginia Tech tuition free. The position is classified as a Research Associate. A starting date of October 1 is desired, but may be negotiable. The position will be subject to annual reappointment and salary adjustment, contingent upon availability of funding.

Applications Procedure

Applications are due no later than September 15; should include a letter of application, a resume, transcripts, and names of three references; and should be sent to:

Dr. Geza Ifju, Department Head
Department of Wood Science and Forest Products
Virginia Tech
Mail Code 0323
Blacksburg, VA 24061

Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify Geza Ifju at (540) 231-8853.

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.

Telephone: (608) 231-9347

FAX: (608) 231-9592

E-mail: Doug_Gardner@apollo.umenfa.maine.edu
or vicki@swst.org

Website: <http://www.swst.org>

SWST 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. Items for the *Newsletter* may be sent to Doug Gardner, at the above Society address.

Society of Wood Science and Technology

President:	Ramsay Smith
Past President:	Thomas E. McLain
President Elect:	H. Michael Barnes
Vice President:	Robert W. Rice
Executive Director:	Vicki L. Herian
Directors:	Steve Smulski (2002)
	James W. Funck (2002)
	Les Groom (2001)
	Philip H. Steele (2001)

Editor, Wood and Fiber Science:

Robert L. Youngs

Editorial Assistant: Carol B. Ovens

Newsletter Editor: Douglas J. Gardner



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venues. Being from Maine, once March arrives, I find any excuse for a trip to a southern city is very welcome! If things are slow with the *Newsletter*, I can also share some of my Maine anecdotes (Vicki had to make this concession ☺).

The Annual Meeting in Lake Tahoe was a great success (see the meeting minutes), and although I was among the ranks of the losers, some folks did OK in the casino. Congratulations to the Student Poster Competition winners and presenters! The future of wood science research looks like it will be left in capable hands. Among the important social events during the SWST/FPS meetings in Lake Tahoe was Geza Ifu's retirement party. That was one party not to miss! Good luck on your retirement, Geza! Who would like to fill Geza's shoes? See the position description in this *Newsletter*.

Another important retirement to consider is Bob Youngs'. Bob informed the Board that he is stepping down as Editor of *Wood and Fiber Science* effective June 2000. Bob has done an outstanding job as Editor! See the Request for New Editor in this *Newsletter*.

That's all I have for now. Summer seems to be flying by much too quickly!

Doug Gardner