

SWST Newsletter ~ October 2010~



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Note from the Editor

Please note – The Society's address has changed!

SWST
P.O. Box 6155
Monona, WI 53716-6155
PH: 608-577-1342
Fax: 608-467-8979

Items for the December 2010 SWST Newsletter should be sent to me by the end of November - AdamTaylor@utk.edu

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SWST 2014 INTERNATIONAL CONVENTION - CALL FOR PROPOSALS

SWST is issuing a Call for Proposals for co-hosting our 2014 International Convention. We will be holding it outside of North America and any interested person, company, or university that would like to co-host in their city please submit a proposal and contact Vicki Herian at SWST:

P.O. Box 6155
Monona, WI 53716-6155
PH: 608-577-1342
Fax: 608-467-8979
Email: vicki@swst.org.

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U LAVAL SUPPORTING CHILEAN STUDENTS

I am pleased to inform you that we will host 4 students from Concepcion, Chile for the fall term (September to December) at Université Laval:

- Ignacio Marcelo Fuenzalida, Universidad de Concepcion, Undergraduate program of civil eng. (Supervisors: Rodrigo Silva, Peter Dechent and Mario Giuliano)
- Barbara Camila Ramirez, Universidad de Concepcion, Undergraduate program of civil eng. (Supervisors: Rodrigo Silva, Peter Dechent and Mario Giuliano)
- Daniela Olivia Sepulveda Contreras, Universidad del Bio Bio, MSc candidate in Wood Science (Supervisors: Cecilia Bustos and William Gacitua)
- Macarena Alejandra Figueroa Saavedra, Universidad del Bio Bio, MSc candidate in Wood Science (Supervisors: Cecilia Bustos and William Gacitua)

These 4 students obtained each one a \$7500 CAD scholarship from the Ministry of Foreign Affairs and International Trade of Canada. They will be supervised by Alexander Salenikovich and me.

Best regards

Alain Cloutier, ing., ing.f., PhD

Professeur titulaire

Centre de recherche sur le bois

Département des sciences du bois et de la forêt Faculté de foresterie, de géographie et de géomatique Pavillon Gene-H.-Kruger, bureau 1376C Université Laval 2425, rue de la Terrasse Québec, QC Canada G1V 0A6

tél.: +1-418-656-5851

fax: +1-418-656-2091
email: alain.cloutier@sbf.ulaval.ca
web: www.crb.ulaval.ca

(eds note: Laval also donated \$2,000 to U. Bio Bio to aid in earthquake recovery efforts)

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DR. JOHN GRANT HAYGREEN, 1930-2010

Dr. John Haygreen, past president of SWST, died on October 21, 2010. Dr. Haygreen served as president of SWST in 1969-70 and of the Forest Products Society in 1977-78. He was also active in many other professional organizations including the American Society for Testing of Materials. He was elected a fellow of the International Academy of Wood Science in 1975.

John was born in Illinois, spent his boyhood in Iowa, and received his B.S. in forestry from Iowa State University in 1952. John frequently recounted that his most notable accomplishment at Iowa State was meeting his wife Elizabeth. After graduation, John served as a battalion office in the Korean conflict, then worked for several years with the Long-Bell Lumber Company in Louisiana and then with the Frank Paxton Lumber Company in Kansas City. Between those jobs, he spent 5 months at the National Hardwood Lumber Association School in Memphis, Tennessee. Haygreen then entered Michigan State University, earning M.S. and Ph.D. degrees there in wood science and technology. In 1961 Dr. Haygreen was hired as an assistant professor in the College of Forestry at Colorado University. Two years later (1966) he moved to the University of Minnesota where five years later he was named head of the newly formed Department of Forest Products, a position he held through 1984. He retired from Auburn University in 1990 as Associate Dean of Forestry.

In his academic work, John was principally responsible for courses in lumber standards, mechanical behavior of wood, design of wood structures, mechanics and structural design, and manufacturing processes in the forest products industries. He was a demanding yet beloved teacher, counselor to many, frequent consultant, and prolific author. A colleague once described John as a warm, friendly, thoughtful, and energetic individual who moved as easily among students and faculty as among associates in industry, government, and academia. John authored numerous scientific articles focused on wood mechanics, wood drying, and wood utilization, and co-authored a widely used wood science textbook. Consulting and volunteer activities took him frequently to Europe, Central America, and Southeast Asia.

John was active in his church for many years, donating time to the food bank and other community projects. He was an avid golfer and enjoyed time at the beach. He was loved and will be greatly missed.

Dr. Haygreen is survived by his wife Elizabeth, of 58 years; son, Jim and his wife Janice, of Loxley, AL; daughter, Lisa Nelson, and her husband John of Lewes, DE; Grandchildren John Haygreen of Auburn, AL, Alden Nelson, and Ryan Nelson of Lewes, DE. One brother, Jim Haygreen his wife Charlotte of South Carolina. John was preceded in death by one son, Mark Haygreen.

In lieu of flowers, the family requests donations to the local Food Bank of your choice. Alabama Funeral Homes & Cremation Centers of Dadeville, AL are in charge of the arrangements.
www.alabamafuneralhomes.com

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IN MEMORIAM: AL MOSLEMI

Al Moslemi, 74, passed away peacefully Thursday, Aug. 12, 2010. Al was born Aug. 26, 1935, in Kermanshah, Iran, to a loving but illiterate family. His adolescence was punctuated by his father's death, which left Al as the primary breadwinner for his family at the young age of 16. Al realized that he could best provide for his family if he sought an education. He worked diligently at his studies and won a much-coveted scholarship to pursue a postgraduate degree in the United States. In 1964, Al earned a doctorate at Michigan State University in forest products, all the while sending money from his student stipend to support his family in Iran. Upon graduating, Al became an assistant professor at Southern Illinois University.

Al married Marlene Hache and had two children, Troy, born June 5, 1967, and Michelle, born Sept. 29, 1974. The family moved to Moscow when Al became a professor in the College of Natural Resources at the University of Idaho. The marriage did not last, and the couple divorced.

During a return visit to Iran, Al met the woman he would love dearly for the rest of his life, Sousan Sarikhani. The couple was married in 1976 and had a daughter, Jennifer, born July 5, 1978.

Al was widely respected in his field and was an internationally consulted expert on forest products. His research helped save forests by developing techniques that used wood fibers previously discarded as waste to create new building products. He was the author of at least two books and more than 100 scientific publications. He served the University of Idaho as an associate dean, associate director of college programs, coordinator of college programs and department head. Al initiated the bi-annual International Inorganic Bonded Wood and Fiber Composite Materials Conference, for which the Moslemi Excellence Award was established in his honor. After Al retired in 1999, Al and Sousan headed south to Costa Rica where Al was deputy director and dean of postgraduate studies at the Tropical Agricultural Research and Higher Education Center (CATIE). There, Al helped establish a doctoral program and a joint postgraduate degree program between University of Idaho and CATIE. Al strove to help students from all over the world learn to manage natural resources in a responsibly productive manner.

To those who loved him, Al was a beloved soul who valued hard work and scholarly pursuits. He could often be found running the streets of Moscow with his jogging buddies, and his speed and ethnicity earned him the nickname "The Flying Kurd." He loved his family and friends earnestly, and spent much of his time biking, boating, and gardening with them. When reflecting back in his later years, Al would refer to his life as his "incredible journey." His thoughtful advice and lively stories of Iran will be missed.

A memorial service to celebrate Al's life will be at 6 p.m. on Sept. 5 at his residence in Coeur d'Alene.

Al's family suggests memorial gifts be sent to the Al Moslemi Scholarship at the University of Idaho, in care of University of Idaho Foundation, Gift Administration Office, PO Box 443147, Moscow, ID 83844-3147.

Reprinted from: <http://www.dnews.com/story/obituaries/54682/>

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IN MEMORIAM: ALAN SLIKER

An only child, Alan was born in Cleveland, Ohio, to Carolyn Eleanor (Willis) Sliker and Albert Leroy Sliker on June 27, 1927. When Alan was 10 years old, he moved with his parents to Newton, Mass where he graduated with honors from Newton High School in 1945. He was drafted in October 1945 in the U.S. Army and sent to Fort Bragg, North Carolina. His unit was the last one to go through basic training with live ammunition. Because of high IQ scores, Alan was selected for the Army Security Agency. He trained as a cryptanalyst at Vint Hill Farms, in Culpepper, Virginia. His unit was stationed in Frankfurt, Germany where he repaired cipher machines and delivered them to embassies. He reached the rank of T-5 technical corporal. He was discharged in early 1947 at Fort Dix in New Jersey.

After the war he enrolled at Duke University in a pre-forestry program. He was awarded a BS (Bachelor of Science) degree in 1951 and an MF (Master of Forestry) in 1952. His specialization was wood technology. After graduation, Alan was a packaging engineer at the US Forest Products Laboratory in Madison, Wisconsin until the fall of 1953. Then, Alan attended the State University of New York College of Forestry (SUNY) at Syracuse University with an assistantship in the Wood Technology Department. It took two busy years to complete the course work at SUNY. While at Syracuse, he met his future wife, Shirley J. Brocker.

Alan found summer jobs from 1951 to 1954, as a technician for Chance Vought Aircraft Co., Dallas, Texas; Timber Engineering Co., Washington, D.C.; and Oak Wilt Project Supervisor, Scioto Trail Forest in Chillicothe, Ohio.

In 1955, Alan was offered an Assistant Instructor's job in the Forest Products Department at Michigan State University. It was here that he completed his thesis, Stability of Bonded Electrical Resistance Strain Gauges on Wood. Some of the experiments took as long as 360 days to complete. By 1973, Alan was a full professor and taught classes in physical and mechanical properties of wood, wood identification, and structural use of wood and building materials. The majority of his published research articles were on Poisson's ratios in wood, wood identification, and the use of wood as a home building material. Alan retired in 1991 after teaching 36 years at Michigan State University. He was a member of Phi Beta Kappa, Sigma Nu, Sigma Xi (The Scientific Research Society), Society of Wood Science and Technology, Clinton County (Ohio) Genealogical Society, MSU Retirees Association, and University United Methodist Church, East Lansing.

Alan spent his retirement years attending auctions, book and postcard shows, volunteering, visiting his children & grandchildren, and traveling all over the world. Alan enjoyed working on

his family genealogy, selling postcards, and volunteering for the MSU Retirees and the McRee Guest House (Ingham Regional Medical Center).

Alan is survived by his wife of 54 years, Shirley Brocker Sliker; son, William James Sliker, wife Sydnie and their children Sarah Elizabeth (16) and Zachary (13), Seattle, WA; daughter Barbara Sliker Seewer, husband Daniel Seewer and their children, Johnathon Albert (17), Elizabeth Carroll (15) and William Alan (12) Louisville, KY; cousin Judith Broverman, Olympia, WA; and special family friend, Jeanne Hauerstock, Honolulu, Hawaii. He is predeceased by his son, Mark Alan Sliker.

Memorial services will be held at University United Methodist Church, 1120 S. Harrison, East Lansing, at 4:00 p.m. Saturday, September 11, 2010.

Memorial contributions may be made to Boy Scouts of America, Chief Okemos Council #271, 4000 W. Michigan Ave., Lansing, MI 48910; McRee Guest House, Ingham Regional Medical Center Foundation, 401 W. Greenlawn, Lansing, MI 48910; or to the charity of your choice.

Reprinted from: <http://obits.dignitymemorial.com/dignity-memorial/obituary.aspx?n=Alan-Sliker&lc=7224&mid=4355058>

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SWST VISITING SCIENTIST REPORT

Vienna, Austria, May 1 – 30, 2010

Jae-Woo Kim
Dept. of Forestry, Wildlife and Fisheries
University of Tennessee
Knoxville, TN 37919

I received an International Professional Visiting Scientist Award from SWST to be a visiting scientist to the University of Natural Resources and Applied Life Sciences, known as BOKU, in Vienna, Austria. The main focus of the visit was to investigate nanomechanical properties of wood using nanoindentation techniques, as well as to visit research facilities and meet scientists.

Overview

The University of Natural Resources and Applied Life Sciences, known as BOKU, is located in Vienna, the cultural, economic and political center of Austria. BOKU is divided in 13 departments and each department holds several institutes. The Institute of Wood Science and Technology resides in the Department of Material Science and Process Engineering. The institute is closely working together with Center for Wood Composites and Wood Chemistry (Wood K plus), a research center focused on the wood industry in Austria and central Europe. The institute is led by Dr. Alfred Teischinger and has 5 faculty members and a number of scientists, lecturers, technical staff and graduate students. Dr. Johannes Konnerth, an assistant professor, has many years of research experience in evaluating nano-mechanical properties of wood and other natural materials. The research facilities in the institute include a wood physics

lab with a dry kiln and a special drying chamber, mechanical properties testing and evaluation equipment, a wet chemistry lab with FT-IR, UV-VIS, and GC-MS, a pilot plant for bio-based composites research, a climate chamber and QUV tester, and various microscopy and image analysis systems. The nanoindenter is located at the Vienna University of Technology (TUV) that is 5 miles away from BOKU.

I stayed in an apartment located about a mile from BOKU. Located in a residential area, the apartment was clean and quiet and provided weekly clean-up service. Vienna has a well-developed public transport network such as buses, trains, trams and underground lines (subway). I used trams and buses to commute to BOKU and TUV which took about 20 minutes and 40 minutes, respectively. Although German is the official language in Austria, English is also spoken on campus and in the city center.

Sample preparation

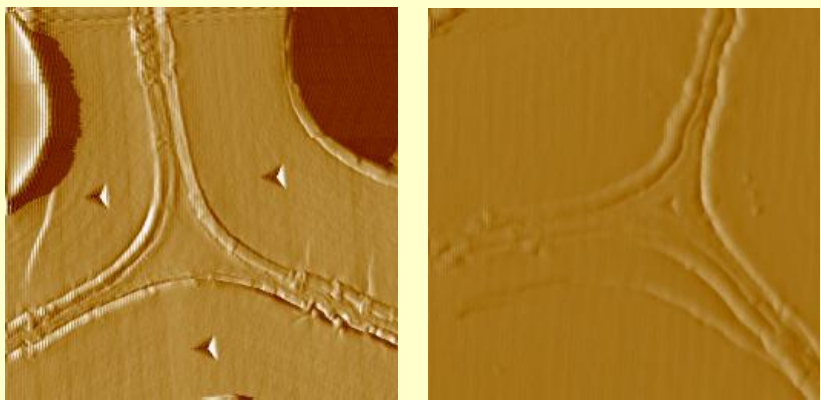
Southern pine sapwood was cut into 1 cm³ samples. The blocks were decayed for various times with the brown rot fungus, *Postia placenta*, following the standard AWP A E10-06. The blocks were decayed for the various amount of time from 1 to 8 weeks. For each decay period, 12 samples were prepared. After the decay, samples were dried in an oven at 65°C for 24hrs to stop fungal activity. A freshly cut heartwood sample of black gum (*Nyssa sylvatica*) was irradiated with various dosages of e-beam from 80 to 403 kGy and then cut into 1 cm³ samples.

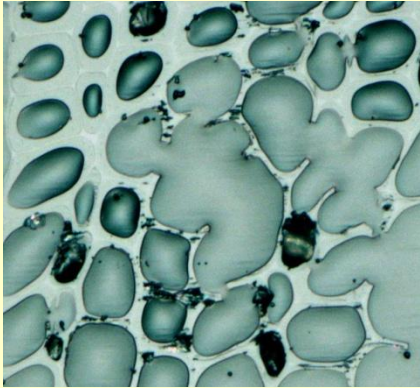
Nanoindentation testing

Specimens measuring 2×2×3 mm were cut from the decayed sample blocks and the e-beam treated samples. The specimens were then embedded in AGAR epoxy. A smooth surface was prepared using an ultramicrotome equipped with a diamond knife. Nanoindentation experiments were performed with a Hysitron TriboIndenter system (Hysitron Inc., Minneapolis, USA) equipped with three sided pyramid diamond indenter (Berkovich type). For the decayed wood samples, nanoindentations were made at the cross section of both earlywood and latewood cell walls. For e-beam treated wood, indentations were made only at the compound middle lamella. To reduce edge effects, a four-step load-control mode was used for decayed samples. The load was increased from 20 to 300 μN over 4 steps and each step had a three segment loading ramp; 3 s of loading, 20 s of holding, and 3 s of unloading. Linearity of the reduced modulus and hardness was examined and only the linear part of the modulus and hardness was used. For the creep test of e-beam treated samples, a set amount of load (50μN) was applied for 40 or 150 s with the same load ramp schedule.

Preliminary results

The average reduced modulus of control earlywood was 17.2 GPa while that of latewood was 20.4 GPa. As expected, reduced modulus of decayed wood (both earlywood and latewood) was decreased compared to control. Some of the cell walls were missing due to the fungal activity (See picture below). The reduced modulus of cell walls close to the missing cell walls appeared to be lower than that of cell walls away from missing cell walls, suggesting that the mechanical property loss due to fungal activity could be very localized. Further analysis on the nanoindentation results is on-going.





Optical image of wood samples decayed for 6 weeks. Some cell walls are missing due to the fungal activity

Nanoindentation on decayed wood cell walls

Nanoindentation on e-beam treated wood; indentation was made at the compound middle lamella

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RNRF ROUNDTABLE WITH THE UNDER SECRETARY OF NATURAL RESOURCES AND ENVIRONMENT, SEPTEMBER 14, 2010

- Howard Rosen, SWST RNRF Representative

I represented SWST at the Renewable Natural Resource Foundation (RNRF) Roundtable in Washington, D.C. Harris Sherman, Under Secretary for Natural Resources and Environment in USDA and his Deputy over the Forest Service, Jay Jensen, met with representatives from RNRF.

Mr. Sherman is a Colorado native, who has had many important positions dedicated to conserving and improving our Nation's natural resources. Mr. Jensen, a southern California native, was previously Executive Director of the Council of Western State Foresters/Western Forestry Leadership Coalition.

Mr. Sherman emphasized 1) the importance of climate change to natural resources, 2) the importance and difficulties with land-water use in the United States, and 3) the problems caused by diseased trees and overcrowded forest and how to best utilize materials from our forest lands to reduce these problems. A discussion on the new administration's approach to these areas followed with a definite push for research necessary in all of these areas.



Harris Sherman



Jay Jensen

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UNIVERSITY OF MINNESOTA TO LEAD INITIATIVE ON HOME ENERGY EFFICIENCY IN COLD CLIMATES

Contacts: Jeff Falk, University News Service, jfalk@umn.edu, (612) 626-1720; Shri Ramaswamy, Department of Bioproducts and Biosystems Engineering, shri@umn.edu, (612) 624-8797

A public-private partnership led by University of Minnesota researchers was recently chosen by the U.S. Department of Energy to help develop cost-effective solutions that dramatically reduce the average energy use of housing while improving comfort and quality.

Fifteen projects nationwide will receive up to \$30 million over the next 18 months as part of the department's "Building America" program.

The Minnesota project, called the NorthernSTAR Energy Efficient Housing Research Partnership Team, will use a holistic approach to building performance, particularly as it applies to housing in cold climates. Using this approach, a new or retrofitted house must achieve multiple performance outcomes of energy efficiency, durability, indoor air quality and low environmental impact. While most energy-efficiency programs address only the house, a holistic approach involves the entire process, from construction delivery system to helping homeowners save energy.

The project will be led by Pat Huelman of the University's Department of Bioproducts and Biosystems Engineering and Director of the Cold Climate Housing Program, and John Carmody of the U of M's Center for Sustainable Building Research. "The construction, operation and maintenance of our homes use approximately one-quarter of our nation's total energy consumption," Huelman said. "This initiative will conduct the research and provide the outreach needed to support a growing energy retrofit industry. The results will be to create new job opportunities that will enhance the performance and value of our nation's housing stock, save homeowners and renters money, and provide long-term benefits to our environment."

The project incorporates scientists from a broad range of disciplines and will use research facilities throughout Minnesota and Wisconsin to help develop strategies not only for energy technologies but for making those technologies available and understandable to all communities.

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NOVEL MATERIALS FROM WOOD OR CELLULOSE

Annual meeting of International Academy of Wood Science, arranged together with Wallenberg Wood Science Center

Time: 31 of August - 2 of September

Place: Stockholm, Sweden

The conference will present new research in the developments of novel materials based on wood and wood polymers, in particular of cellulose.

Topics of interest include:

- modified wood materials
- functional wood materials
- nanocellulose and nanocellulose materials
- wood-plastic composites
- modified wood (heat treatment, polymer modification, mechanical treatment)
- wood surfaces
- wood fibres and their modification
- foams, aerogels and other porous materials
- new materials from lignin, from hemicelluloses etc
- new polymers, adhesives and binders for wood composites
- inorganic wood hybrids

Venue

The conference will be held at the conference center Näringslivets Hus, situated in the very heart of Stockholm

Deadlines for abstracts: March 31, 2011

Contact and Information:

All registration and payment matters:

MCI Scandinavia

Email: confirmation-sweden@mci-group.com

Phone: +46 (0)8 5465 1500

More information about the meeting, please visit: www.innventia.com/iaws2011

Organizing Committee

Lennart Salmén, Innventia & IAWS

Lars Berglund, WWSC & KTH

Frank Beall, IAWS

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INTERNATIONAL WOOD COMPOSITES SYMPOSIUM

**INTERNATIONAL SYMPOSIUM ON VENEER PROCESSING AND
PRODUCTS**

SAVE THE DATE

APRIL 5-7, 2011

Announcing Joint International Symposium on Wood Composites and Veneer Processing and Products Sponsored by Washington State University, APA - The Engineered Wood Products Association & FPInnovations

Join Our Mailing List <http://visitor.constantcontact.com/email.jsp?m=1102694182247>

Themes of the Joint Symposium

- * Raw material availability
- * Life cycle assessment
- * Fiber, strand, and veneer processing
- * Particleboard, MDF, OSB, Plywood, and LVL Manufacturing
- * Specialty products
- * Equipment and resin technology
- * Product performance and standards
- * Market and trade issues
- * Integrated technologies

CALL for Papers and Posters

Papers on the above themes are invited for oral and poster presentations at the symposium.

Abstracts for oral presentations should be submitted by October 31, 2010.

Deadline for submission of poster abstracts is January 31, 2011.

Submit abstracts at www.woodsymposium.wsu.edu

BE A SPONSOR

Companies, organizations, and individuals are invited to sponsor. Your sponsorship can be for a specific item - coffee break, breakfast, lunch, banquet, etc. Sponsors will be identified at the symposium and all printed and website material will acknowledge sponsors.

Levels of Sponsorship

Platinum -- \$10,000

Gold -- \$5,000

Silver -- \$2,500

All sponsors will get a complimentary booth for the duration of the symposium. Additionally, Platinum sponsors will get three complimentary registrations, Gold two, and Silver one.

We hope to see in Seattle, WA, April 5-7, 2011.

Sincerely,

Organizing Committee:

Vikram Yadama and Robert Tichy, Washington State University Steve Zylkowski, APA
Engineered Wood Association Chunping Dai, FPInnovations Remy Marchal, Arts & Metiers
ParisTech Matti Kairi, Technical University of Helsinki

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DEVELOPING WOOD SCIENCE AND TECHNOLOGY TO SUPPORT THE IMPLEMENTATION OF A CLIMATE CHANGE PROGRAM

November 12-13, 2010

BALI, INDONESIA

Organized by the Indonesian Wood Research Society (IWoRS)

Mitigation of global warming due to climate change has been responded by researchers from almost all fields of sciences including wood science and technology. Thus, it is important to share worldwide research finding and development in new benign fundamental and applied knowledge related to wood science and technology. To support direct interchange of latest information on research and development, Indonesian Wood Research Society (IWoRS) or *Masyarakat Peneliti Kayu Indonesia* (MAPEKI) will carry out its second international symposium related to wood science and technology. The symposium will certainly improve our understanding on latest development, innovation and deeper knowledge of the properties, processing and utilization of wood, non wood forest products and other lignocellulosic materials. In addition, to a very limited number of papers, high quality research findings in forestry sciences related to climate change will be also given a chance to be presented in this event. These papers are important to direct the future research in environmentally friendly wood science and technology that support the implementation of climate change program.

The symposium will be held in Bali-INDONESIA, November 12-13, 2010. The symposium will bring together people from academia and industry who are engaged in research and development to share knowledge and establish new contact. In addition, the participant will have precious chance to enjoy the beauty and unique traditional culture of Bali Island that is renowned as the last paradise on earth.

Those interested in presenting a paper or poster, should submit an abstract to wistara@indo.net.id by **July 1**, 2010. The general topics of interest include (but not limited to):

- Biocomposites (properties and manufacturing, panel products, adhesive for biocomposite, etc.)
- Wood properties and quality improvement (wood drying, preservative and preservation, wood machining, wood anatomy, etc.)
- Wood design and engineering (wood mechanics, building construction, etc.)
- Forest products chemistry (pulp and paper, extractive, natural products, bio-energy, etc.)
- Forestry science related to climate change program.

Full details regarding the symposium program, author packages, accommodation, registration and tourism information will be posted at: www.mapeki.org

Important Dates and Deadlines

Submission of Abstract: July 1, 2010

Notification of Acceptance:

August 2, 2010

Submission of Full Paper:
October 1, 2010
Registration, October 1, 2010

Registration Fee:
Early: USD 300
Late / on the spot: USD 350

Students:
Early: USD 150
Late/on the spot: USD 200

(Limited financial support for IWoRS members are available).
Registration Fee should be transferred to: Masyarakat Peneliti Kayu Indonesia (MAPEKI)
Bank: BNI (Branch of Darmaga-Bogor); Account Number: 0179287818

Contact Person

Nyoman Wistara, Ph.D.
Bogor 16680, Indonesia
Tel: +62-251-8621285
Fax: +62-251-8621285
Cellular phone: +62-81399181371
E-mail: wistara@indo.net.id

Manuscripts Preparations

Manuscript must be in English, typewritten using Word, Arial, single space, 3 cm of left and right margin and 2.5 cm of top and bottom margin of a letter paper size. Title is printed with a font size of 14 pt, Authors are of 12 pt, and Text is of 11 pt.

Manuscripts should be checked for spelling and grammar by native speaker.

Manuscripts composition:

Title

Complete name of Authors & Addresses

Abstract

Key words

Texts: Introduction, Materials and Methods, Results and Discussion, Conclusions (and suggestions), References, Appendix.

References are arranged from A to Z. References in text: e.g. (Palomar et al. 1990); References: e.g. Harada, T. 1996. Charring Rate Calculated from Mass Loss Rate. Journal of the Japan Wood Research Society 42:194-201.

Cancellation policy

Registration cancellations must be sent in writing, either mailed, faxed or emailed to the Organizing Committee. Registration cancellations received up to 30 days prior to the Seminar receive a 75% refund. Registration cancellations received less than 30 days and up to seven days prior to the symposium will receive a 50% refund. No refunds will be given for registration cancellations received within seven days of the Seminar, however a substitute delegate may be nominated.

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INNOVATIONS IN FOREST INDUSTRY AND ENGINEERING DESIGN

Third scientific and technical conference

05 – 07.11.2010

Sofia, Bulgaria

Conference Topics:

- Raw Materials for the Wood Industry
- Woodworking Machines and Equipment;
- Technologies in Logging, Woodworking and Furniture Production;
- Interior and Furniture Design – Materials, Constructions, Systems and Mechanisms in the Interior Design;
- Economics, Organisation and Management;
- Natural Sciences in Support of Forest Industry and Engineering Design.

Important deadlines:

- 20.09.2010 – submission of a Application form and paper abstract (in English);
- 10.10. 2010 – full paper and Registrations form submission.

Participants: university professors, PhD, master and bachelor students, representatives of business organizations, design companies, individuals.

The conference program includes a **Roundtable on Education, Science and Business** which will discuss the issues related to the links and collaboration between the Faculty of Forest Industry and potential employers, to the quality of education, to the development of scientific and applied projects and project results' implementation.

ORGANISING COMMITTEE:

Chairman: Prof. Nino Ninov
Vice Chairman: Assoc.Prof. Neno Tritchkov
Secretary: Assoc.Prof. Nikolay Minkovski

Members: Dipl.Eng.. Kalin Simeonov, Ph.D.
Assoc.Prof. Todor Todorov
Assoc.Prof. Zhivko Gochev
Assistant Ralitsa Simeonova

Assistant Pavlin Vitchev
Technical secretary: Violeta Boliarova

Programme COMMITTEE

Chairman: Assoc.Prof. Neno Tritchov
Vice Chairman: Prof. Nencho Deliiski
Members: Prof. Vesselin Brezin
Prof. Bojidar Dinkov
Prof. Panayot Panayotov
Assoc.Prof. Julia Mihajlova
Assoc.Prof. Georgy Abrashev

Conference Fee: - 160 €

The conference fee covers conference materials, program, abstract booklet, proceedings (paper copy or on CD) containing the papers' full texts; coffee breaks.

The fee is paid in cash at registration (on site); Submission of a completed registration form is required by the specified deadline; Invoices for fees paid by bank transfer will be issued to participants during the conference. Business organizations wishing to participate in the conference, must declare that no later than 10.10.2010.

Willing to sponsor the events will be able to advertise on the pages of the journal "Woodworking and furniture production", and also to include promotional materials in the program and in the conference proceedings.

The abstracts submitted for participation will be selected by the Program Committee, authors will be notified. The conference proceedings will be registered in the National Library "Sts. Cyril and Methodius".

Correspondence Address and Additional Information:

e-mail: inno_conference@abv.bg
Faculty of Forest Industry
University of Forestry
10 Kliment Ohridski Blvd
1756 Sofia, Bulgaria
phone: (+ 359 2) 862 10 98
fax: (+ 359 2) 862 28 30

The abstract shall consist of:

TITLE – Font Times New Roman 14 Bold Center Capitals;

Authors (without degrees and titles) - Font Times New Roman 12 Bold Center, with contact details – affiliation and e-mail;

Text – maximum 600 words - Font Times New Roman 10;

Key words - Font Times New Roman 10 Bold.

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FIRST ANNUAL WORLD CONGRESS OF BIOENERGY- 2011 DEVELOPING BIO-RENEWABLE ENERGY FROM NATURE

April 25-29, 2011 Place: Dalian, China

<http://www.bitlifesciences.com/wcbe2011>

WCBE-2011 consists of 8 scientific tracks, panel discussions, free communications, poster presentations, and exhibition booths that will cover all the main aspects of bioenergy and will give you the opportunity to be updated in all the sectors in bioenergy.

Scientific Program

Track 1: Policy, Economy and Regulatory Issues for Next Generation Bioenergy

Plenary Lectures: Bioenergy and Low-Carbon Strategies

Track 1-1: China Policy and Market Outlook on Biofuels Track 1-2: Pacific Asia Update on Biofuel Economy, Market and Policy Track 1-3: Europe Update on Policy, Market and Strategy Track 1-4: North America Update on Policy, Market* *and Strategies Track 1-5: Other Continental Country Report on Policy, Finance, Market and Planning

Track 2: Breaking Research and Advanced Biofuel Technologies

Track 2-1: Feedstock Genomics and Plant Biotechnology Development Track 2-2: Chemistry, Biochemistry and Microbiology of Lignocellulosic Biomass Track 2-3: Biomass Conversion Technologies Track 2-4: Breakthroughs in Microbial Butanol Track 2-5: Innovations in Biorefineries Track 2-6: Innovations in Biofuel Processing Track 2-7: Advances in Ethanol Separation Technologies Track 2-8: Improved Yeast Track 2-9: Thermal Stable Enzymes for Liquefaction and Saccharification Track 2-10: Control Systems for Biofuel Track 2-11: Environmental Technologies for Biofuels Track 2-12: Biodiesel Derived from Tallow Track 2-13: Biofuels for Fuel Cells Track 2-14: Nanotechnology for Biofuels

Track 3: Resource Assessment and Sustainable Production of Feedstock

Track 3-1: Biofuel Resource Assessment-New Feedstock Sources Track 3-2: Agriculture & Feedstocks Track 3-3: Algae as a Highlight for Biofuel Track 3-4: Bioenergy from Wood and Forestry Technologies Track 3-5: From Waste to Energy and Recycling

Track 4: Bioethanol and Next Generation Bioalcohol

Track 4-1: Development of Ethanologenic Bacteria Track 4-2: Highly Efficient Enzymes for Lignocellulosic Biomass Utilizations Track 4-3: Developing Cost Competitive Cellulosic Ethanol Track 4-4: 3rd Generation of Bioalcohols/Biofuel Track 4-5: 4th Generation of Bioalcohols/Biofuel

Track 5: Biodiesel

Track 5-1: Biodiesel Market Potential & Opportunity Track 5-2: High Yield Feedstock Supply and Processing Technologies Track 5-3: New Technologies for Biodiesel Track 5-4: Large Scale Biodiesel Production, Refining & Quality Track 5-5: Next Generation Biodiesel Track 5-6:

Vehicle Manufacturers & Transport for Biodiesel Track 5-7: Trading, Distribution & Retailing of Biodiesel

Track 6: Biogases

Track 6-1: Biogas from Renewable Resources Track 6-2: Innovative and Productive Biogas Technology Track 6-3: Biogas Upgrading and Distribution Track 6-4: Agricultural biogas production Track 6-5: Biogas production from waste Track 6-6: Biohydrogen Production Track 6-7: Biomethane Production Track 6-8: Biogas use as Vehicle Fuel

Track 7: Bioprocess Development and Engineering Perspectives for Bioenergy

Track 7-1: Improved Bioprocessing, Biorefineries, Byproducts & Bioproducts Track 7-2: Developing & Managing Biofuels Production Plants Track 7-3: Public Transport, Fleets & Marketing and Manufacturers Track 7-4: Pipelines & Shipping & Distribution Track 7-5: Storage, Handling and Quality Control

Track 8: Finance, Strategic Planning, Industrialization and Commercialization

Track 8-1: Industry Structure and Competitive Capacity Analysis Track 8-2: Bioenergy Production Costs Track 8-3: Biofuels Finance & Investment Track 8-4: Commercialization of Biofuel under CDM Track 8-5: Successful Case Study of Leading Biofuel Companies

Ms. Bella Yu

26 Gaoneng St., R405, Dalian Hightech Zone

Dalian, LN 116025, China

Tel: 0086-411-84799609-833

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Email: bella@bit-ibio.com <<mailto:bella@bit-ibio.com>>__

Web: <http://www.bitlifesciences.com/wcbe2011>__

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**Dean of the Davis College Agriculture, Natural Resources, and Design
AND
Director of the WV Agricultural and Forestry Experiment Station**

West Virginia University (www.wvu.edu), the state's flagship university, invites applications and nominations for the position of **Dean of the Davis College Agriculture, Natural Resources, and Design**; and **Director of the WV Agricultural and Forestry Experiment Station**. We seek a dynamic, inspirational individual with developed leadership skills, a strong understanding of the 21st century land grant university, and the ability to implement a comprehensive vision for an expanding college and growing university.

West Virginia University is a public research university (high research activity as defined by the Carnegie Foundation) and receives over \$177million worth of total sponsored funding annually. As the primary land-grant institution in West Virginia, teaching, research, and engagement with the state through innovation and technology are at the forefront of its mission.

The Davis College of Agriculture, Natural Resources and Design with 108 faculty and 150 full-time staff, enrolls 1700 undergraduate and 280 graduate students across a full spectrum of degree programs (28) housed in five academic divisions: Animal and Nutritional Sciences, Design and Merchandising, Forestry and Natural Resources, Plant and Soil Sciences, and Resource Management. The new dean will have the opportunity to continue the College's positive trajectory, which includes growth in competitive research, interdisciplinary activities, student enrollment, and modernization of programs, outreach, and facilities. More information about the College is available at (www.davis.wvu.edu).

The West Virginia Agricultural and Forestry Experiment Station manages the research facilities of the college, including farms and forests. Combining the growth in traditional agriculture and forestry research opportunities with the growth opportunities in the non-traditional areas of the College will provide sustainable breadth and depth of options for future growth. The College's external research funding has more than doubled over the last five years.

The West Virginia University community is committed to being student-centered and has made the quality of the student experience a priority. A tradition of academic excellence is evident by the number of Goldwater, Rhodes, and Truman scholarships awarded to its graduates. Approximately 29,000 students are enrolled on the Morgantown campus in one of 185 degree programs at the undergraduate, graduate, and professional levels. To find out more about Morgantown, please visit www.tourmorgantown.com/.

QUALIFICATIONS: The Dean and Director is the chief academic and administrative officer of the College and Experiment Station, reporting directly to the Provost. The University seeks a dynamic, inspirational individual with vision and strong leadership skills, who is committed to establishing collaborative relationships, fosters an environment in which faculty and stakeholders are engaged partners and communicates consistently and effectively. Qualifications of the successful candidate should include the following:

- A record of accomplishment that supports expectations that the candidate can formulate a vision for the College that embraces its inherent diversity

as well as its necessary relationships within the broader university community.

- Proven skills necessary to articulate a vision for the college and build consensus among faculty and staff to share in the pursuit of that vision; to engage university academic and extension programs necessary to fulfill the vision.
- A background of effective outreach to develop and sustain support among alumni, professional, business, and community groups.
- Ability to connect the College with important areas of opportunity in the university including health sciences, business and economics, engineering, and extension.
- Strong record of excellence in scholarship, outreach, teaching, and grant generation, as well as an earned doctorate that will qualify the candidate for academic appointment as Professor in one of the College's academic divisions;
- A record of commitment to affirmative action and social justice;
- A successful record of fiscal responsibility, budget management, strategic planning, and personnel management.
- Ability to expand and diversify the financial base of the College through mentoring of faculty to generate grants, liaison with donors to expand the endowment base and liaison with funding agencies and commodity groups to expand contracts; and
- Understanding of the role of the College in economic development and the ability to build science-based initiatives with strong impact on citizens and industries of the state of West Virginia.

Salary is competitive and commensurate with experience and qualifications, and this appointment is expected to begin on July 1, 2011.

APPLICATIONS: Candidates should submit a letter of application, curriculum vita, and the names, email addresses, and telephone numbers of five references. To assure full consideration, applications should be received by November 1, 2010. Review of applications will continue until the position is filled. Applications and nominations should be directed to: DavisSearch@mail.wvu.edu

West Virginia University is an equal opportunity, affirmative action employer.

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ASSISTANT PROFESSOR – PURDUE UNIVERSITY

Quantitative Analysis and Modeling of Natural Resources

The Department of Forestry and Natural Resources at Purdue University in West Lafayette, Indiana, is seeking applicants for a natural resources biometrician at the rank of assistant professor, who will focus on growth areas such as environmental analyses, ecological statistics, and ecosystem modeling, among others. This is a tenure-track, academic-year appointment with both research and teaching responsibilities.

RESPONSIBILITIES: The successful candidate will be expected to develop a nationally and internationally recognized research program, interact with scientifically diverse faculty across campus, and demonstrate excellence in teaching. Research should focus on one or more of the following areas: ecoinformatics, ecological statistics, natural resource biometrics, meta-analyses, and/or population, community, and ecosystems modeling. Teaching responsibilities will include courses in Natural Resources Measurement, Quantitative Methods for Resource Management and a course in the candidate's area of specialization.

Purdue University's Department of Forestry and Natural Resources is a broad environmental department, emphasizing interdisciplinary approaches across a spectrum of research areas including, ecology, forest biology, wildlife, fisheries and aquatic sciences, wood science, genetics and human dimensions of natural resource management (www.ag.purdue.edu/fnr). Quantitative methods are central to all of these disciplines, and a recently formed Quantitative Ecology faculty group integrates such approaches within the department. The department participates and leads various interdisciplinary initiatives such as the Center for the Environment, Purdue Water Community, Purdue Interdisciplinary Center for Ecological Sustainability, Hardwood Tree Improvement and Regeneration Center, and Purdue Climate Change Research Center.

QUALIFICATIONS: A Ph.D. emphasizing quantitative approaches with application to environmental and natural resources issues; teaching experience; the potential to develop a vigorous, extramurally funded research program; and a commitment to research and teaching are required. A strong publication record and post-doctoral or practical experience are desirable.

SALARY: Salary will be commensurate with experience and training.

CLOSING DATE: 15 November 2010, or until filled.

APPLICATION PROCESS: Submit: 1) cover letter, including the names and contact information for three references; 2) curriculum vitae; 3) summary of research interests; and 4) statement of teaching philosophy and interests. Application packets should be addressed to Dr. Bryan Pijanowski, Chair, Natural Resources Biometrician Search Committee, Purdue University, Department of Forestry and Natural Resources, 715 West State Street, West Lafayette, Indiana 47907-2061. Questions may be directed to the Search Committee Chair via telephone (765-496-2215) or email (bpijanow@purdue.edu).

Purdue University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce.

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**Assistant Professor, Tenure Track
GREEN BUILDING MATERIALS & ENGINEERING
Dept. of Wood Science and Engineering
Oregon State University, Corvallis**

The Department of Wood Science & Engineering (<http://woodscience.oregonstate.edu/>) at Oregon State University seeks applicants for a research and teaching faculty position that will advance the efficient use of renewable plant-based materials for engineering applications, buildings and/or consumer products and similar end-uses. This is a 0.75 FTE, 12-month or 1.0 FTE, 9-month tenure-track position (at the discretion of the Department Head). Incumbent is encouraged to increase his/her base appointment/salary by seeking supplemental funding through other activities outside of the approved position description. The incumbent will teach and conduct research in areas such as green building engineering, use of life cycle analysis (LCA) of materials and structures, manufacturing, and utilization strategies employing renewable materials, and/or durability and performance of engineered systems and components. This position is envisioned to take advantage of the high degree of collaboration among units across campus and elsewhere within the state. Minimum requirements include, but are not limited to, a PhD in a renewable material science, building sciences, material science, architectural engineering or related science/engineering field at the time of hire and at least twelve months of research experience. Salary is commensurate with education and experience.

To review full position details and qualifications or to apply, see <http://oregonstate.edu/jobs>, posting #0006461. For full consideration, applications must be received by January 10, 2011.

Oregon State University is located in Corvallis, a vibrant college town of 53,000 in the heart of western Oregon's Willamette Valley. Corvallis consistently ranks among the best and safest cities to live in the U.S., as well as among the most environmentally responsible. OSU is an Affirmative Action/Equal Opportunity Employer.

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Universität Hamburg

The Centre for Wood Sciences in the School of Mathematics, Informatics and Natural Sciences at the University of Hamburg, Germany, is now seeking applicants for a

FULL PROFESSORSHIP (W 3)

in Mechanical Wood Technology

The University aims to increase the number of women in research and teaching and explicitly encourages women to apply. Qualified female applicants will receive preference in accordance with the "Hamburgisches Hochschulgesetz" (Hamburg Higher Education Law).

Description:

The School is seeking applicants who can conduct research in mechanical wood technology and who have a prolific research profile, a strong record of leadership, peer-reviewed publications, external research funding, significant international reputation in their field and outstanding teaching and mentoring skills. Research, experience and outstanding ability in a least one of the following areas is desirable: physical, especially mechanical characterisation of wood, wood modification and functionalisation, solid wood products, engineered wood products, semi-manufactured products based on wood or wood composites, timber construction components as well as application, sustainability and environmental life cycle assessment of timber utilization.

The successful candidate will be expected to teach mechanical wood technology courses at both undergraduate and graduate level and to supervise undergraduate and graduate student research projects. He/She will play a leading role in the further development of the BSc/MSc program in "Wood Sciences." We expect cooperation within the Centre of Wood Sciences, the Department of Biology, and the School of Mathematics, Informatics and Natural Sciences as well as with research groups in Hamburg.

The position provides excellent opportunities to collaborate with the research units Wood Technology and Wood Biology of the Johann-Heinrich-von-Thünen-Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries (vTI). The vTI is one of four German federal research institutes under the auspices of the German Federal Ministry of Food, Agriculture and Consumer Protection. Given adequate qualifications, the successful candidate will be assigned the lead of vTI's Institute for Wood Technology and Wood Biology and appointed at W3.

Requirements:

The Universität Hamburg places special value on the quality of teaching. Therefore, we ask applicants to describe both their teaching experience and their teaching approaches.

Qualified disabled applicants receive preference over nondisabled applicants.

For queries and information please contact Prof. Dr. Michael Köhl (Tel. +49-40-73962100, Email: weltforstwirtschaft@holz.uni-hamburg.de).

Applications which include all important certificates, a curriculum vitae, a list of publications, a list of teaching activities as well as a statement of teaching interests and ideas should be submitted not later than October 7, 2010 to the office of the "Präsident der Universität Hamburg, Referat Organisation & Personalentwicklung, Kennziffer 2100, Moorweidenstrasse 18, 20148 Hamburg, Germany".

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MS ASSISTANTSHIPS AT NC STATE

The Department of Forest Biomaterials at North Carolina State University has two MS graduate assistantships available beginning Spring 2011. One of the research projects is in the area of "branding" and another is in "disaster resilience in homes". The research assistantship available for each of the MS positions will cover \$15,000 salary each year + tuition + health insurance. An undergraduate (BS) degree in wood products, forestry, environmental science or other natural resources area required.

Interested students should send an email with their resume to Dr. Sudipta Dasmohapatra at sdasmoh@ncsu.edu."

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ABOUT SWST

The SWST Newsletter is published six times a year by the Society of Wood Science and Technology, SWST, P.O. Box 6155 Monona, WI 53716-6155 PH: 608-577-1342 Fax: 608-467-8979.

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.

E-mail: Vicki@swst.org

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

Society of Wood Science and Technology

President:	James Funck
Past President:	Jerrold Winandy
President Elect:	Susan Anagnost
Vice President:	Todd Shupe
Executive Director:	Vicki L. Herian
Directors:	Vikram Yadama (2008)
	Robert Bush (2008)
	Steve Quarles (2009)
	Sheldon Shi (2009)

Wood and Fiber Science Editor:	Frank Beall
Newsletter Editor:	Adam Taylor

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POTENTIAL SWST VISITING SCIENTISTS

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

Specialty: Termite biology and control.

Will Discuss Formally and Informally: Above specialty.

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

Specialty: Wood science consulting and applied research.

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

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

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

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

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

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

Specialty: Wood deterioration and preservation.

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

BEALL, FRANK C., University of California Berkeley, College of Natural Resources, 1301 South 46th Street, Richmond, CA 94804 (510-665-3536) (FAX 510-665-3427)
email: frank.beall@nature.berkeley.edu

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

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

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

BOWYER, JIM L., Director, Responsible Materials Program, Dovetail Partners, Inc.,

528 Hennepin Avenue, Suite 202, Minneapolis, MN 55403 and Professor Emeritus,
Department of Bioproducts and Biosystems Engineering, University of Minnesota,
St. Paul, MN (651-490-7688) (FAX 612-333-0432)
email: jimbowyer@comcast.net

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

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

Will Discuss Informally: Almost anything.

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

Specialty: Forest products marketing and management

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

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

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

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

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

Will Discuss Informally: Will ask students to try to critically analyze, in light of the above, at least 6 “new products” of my own invention and explain why more of them failed than succeeded to reach commercialization. (I’ll show samples of these and/or photographs and diagrams re how I used an understanding of wood science to develop these products. We will also discuss the reasons for failure and/or success of inventions coming from federal laboratories, academic laboratories and industry research departments (including machinery and resin suppliers), and summarize what general lessons can be learned from these case histories.

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

Specialty: Wood drying.

Will Discuss Formally and Informally: Above specialty.

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

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

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

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

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

Specialty: Wood deterioration and protection.

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

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

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

Specialty: Tree growth, wood quality.

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

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

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

Specialty: Wood engineering.

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

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

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

Will Discuss Formally and Informally: All specialties.

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

Specialty: Wood performance; Problem analysis.

Will Discuss Formally: Durability; Degradation; Protection.

Will Discuss Informally: Any related issues.

FUNCK, JAMES W., Manager, Lumber & Wood Science, Weyerhaeuser Company, WTC 2B2,
P.O. Box 9777, Federal Way, WA 98063-9777 (253-924-6826) (FAX 253-924-4239)
email: jim.funck@weyerhaeuser.com

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

Will Discuss Formally: Above listed specialties.

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

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

Specialty: Wood adhesion; Wood composites.

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

Will Discuss Informally: Anything.

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

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

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

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

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

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

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

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

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

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

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

Will Discuss Formally: Above listed specialties.

Will Discuss Informally: Above listed specialties.

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

Specialty: Quantitative wood anatomy; Structure-property relationships.

Will Discuss Formally and Informally: Above specialty.

JAGELS, RICHARD, Professor, Department of Forest Ecosystem Science, University of Maine, 5755 Nutting Hall, Orono, ME 04469 (207-581-2884) (FAX 207-581-2889)

email: Richard.Jagels@maine.edu

Specialty: Wood structure; Wood quality.

Will Discuss Formally: Morphometric analysis applied to wood structure and wood quality studies; Wood analysis of wet-site archaeological finds.

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

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

Specialty: Biodegradation of wood; Fungal metabolism.

Will Discuss Formally: Biological degradation of wood.

Will Discuss Informally: Interdisciplinary studies.

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

Specialty: Wood physics and composites.

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

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

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

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

Will Discuss Formally and Informally: Above specialty.

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

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

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

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

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

Specialty: Wood quality/silviculture interactions; Tree physiology.

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

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

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

Specialty: Wood processing; Furniture manufacturing processes.

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

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

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

Specialty: Drying of hardwood lumber.

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

Will Discuss Informally: General wood technology.

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

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

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

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

Specialty: Composition and composite wood products.

Will Discuss Formally and Informally: Any aspect of particleboard, flakeboard, fiberboard, and composites; The board industry in other parts of the world.

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

Specialty: Wood gluing; Reconstituted products.

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

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

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

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

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

Will Discuss Informally: Above topics and most anything else.

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

Specialty: Wood microbiology; Biodeterioration; Preservation.

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

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

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

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

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

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

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

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

Will Discuss Formally: On MOU between UPM and host University: 1) establish student exchange program; 2) R&D collaboration..

Will Discuss Informally: Post graduate studies at UPM.

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

Specialty: Wood mechanics and composites.

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

Will Discuss Informally: Hybrid wood composites.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Specialty: Straw/wood fiber chemistry.

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

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

Specialty: Mechanics and physics of wood and wood composites.

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

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

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

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

Will Discuss Formally: Environmental aspects of wood products.

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

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

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

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

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

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

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, 9227 Katzenbuechel Road, Mazomanie, WI 53560 (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.

WILCOX, W. WAYNE, 4830 Faber Road, Shingle Springs, CA 95682 (530-677-2280)
email: wayne@wwwilcox.biz

Specialty: Wood biodeterioration; Microscopical diagnosis of decay.

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

Will Discuss Informally: Teaching wood performance to architecture students.

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

Specialty: Material science.

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

Will Discuss Informally: Durability and weathering of forest products.

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

Specialty: International forestry; Wood technology.

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

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

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

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

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

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