



The Newsletter
of
The Society of Wood Science and
Technology
•August-September-October 2011•

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SWST

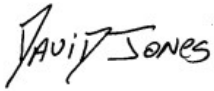
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From the Editor

Once again I am working on improving the flow and form of the Newsletter. By the time I get it worked out, it will be time for a new editor. Many of the information is now directly hyperlinked to the internet, so that the newsletter itself can stay as short as possible. As always, any news, announcements, or editorials can be sent to pdjones@cfr.msstate.edu .

Cheers,

A handwritten signature in black ink that reads "DAVID JONES". The letters are cursive and somewhat stylized, with the first name "DAVID" and last name "JONES" clearly legible.

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55th International Conference



北京欢迎你

SWST/ICBR International Convention

August 27–31, 2012

International Centre for Bamboo and Rattan, Beijing, China

**Sustainable Development of Wood and
Biomass in our New Global Economy**



INTERNATIONAL CENTRE FOR BAMBOO AND RATTAN
国际竹藤网络中心 **ICBR**



Monday, August 27, 2012

Opening Ceremony: 8:00–11:30 a.m.

Keynotes

Lunch: 11:30 a.m.–1:30 p.m.

Global Trade Session: 1:30–5:00 p.m.

Topic areas: Availability of wood around the world; Trade options between China and other parts of the world (specifically the United States, Africa, Europe, Russia, etc.); International product standards; Trade barriers

星期一, 2012年八月二十七日

开幕式: 8:00–11:30 a.m.

主讲人:

午餐: 11:30 a.m.–1:30 p.m.

全球贸易议题: 1:30–5:00 p.m.

主要议题: 世界范围内木材资源的可用性; 中国和世界其他国家的贸易选择 (特别指美国、非洲、欧洲、俄罗斯等等); 国际产品标准; 贸易壁垒

Tuesday, August 28, 2012

Energy and Carbon Issues Session: 8:00–11:30 a.m.

Topic areas: Emissions; Reduced energy use; Bioenergy; Carbon sequestration by wood and by forests; Production of energy from biomass

Lunch: 11:30 a.m.–1:30 p.m.

Development and Research in Bamboo and other

Agri Fibers Session: 1:30–5:00 p.m.

Topic areas: Housing; Structural applications; Benefits to use bamboo and other agri fibers; Uses around the world

Tour of Bamboo and Rattan Show Room at ICBR

星期二, 2012年八月二十八日

能源与碳议题会议: 8:00–11:30 a.m.

主要议题: 排放; 降低能源的使用;

生物能源; 木材和森林的碳储量;

生物质能源的生产;

午餐: 11:30 a.m.–1:30 p.m.

竹材和其他农业纤维质材料的研究和发展会议: 1:30–5:00 p.m.

主要议题: 房屋; 建筑构造材的利用;

使用竹材和其他农业纤维质材料的优势;

竹藤在世界各地的利用。

ICBR 展厅参观

Wednesday, August 29, 2012

Sustainable Resources for the Future Session: 8:00–11:30 a.m.

Topic areas: Sustainability of wood; Plantations; Characteristics of wood from plantations and from typical forests; Engineered wood; Testing facilities

Lunch: 11:30 a.m.–1:30 p.m.

Tour of ICBR Laboratories: 1:30–2:30 p.m.

Poster Session and Student Poster Competition: 2:30–4:00 p.m.

Advanced Wood Processing Session 1: 4:00–5:00 p.m.

Topic areas: Housing and structural use of wood around the world

星期三, 2012年八月二十九日

未来可持续发展的资源议题组: 8:00–11:30 a.m.

主要议题: 木材的可持续利用性; 植树造林;

速生材树种和常见森林树种的特性;

工程木; 检测设备;

午餐: 11:30 a.m.–1:30 p.m.

参观ICBR 实验室: 1:30–2:30 p.m.

海报会议和学生海报竞赛: 2:30–4:30 p.m.

先进木材加工技术会议 1: 4:00–5:00 p.m.

主要议题: 世界各国木材在建筑和构造材上的应用;

Thursday, August 30, 2012

Advanced Wood Processing Session 2: 8:00–11:30 a.m.

Topic areas: Nanotechnology; Properties of wood;

Wood modification; Basic sciences of wood

Lunch: 11:30 a.m.–1:30 p.m.

Wood Culture Session: 1:30–5:00 p.m.

Topic areas: Sculptures; Paintings; Wood furniture and carving; Musical instruments (especially Chinese ones); Species used for instruments; "Woods of Net" by Toshiko Horiuchi - The Hakone Open Air Museum; Wooden masks around the world; Chinese wooden abacus; Chinese wood umbrella (3,500 years old); The Museum for wood culture in Kami, Hyogo, Japan and other wood museums around the world; Wood as it relates to religion (Buddha); Wood clocks and wood sports equipment

Display of wood culture items at back of room

End session: 4:30–5:00 p.m. with Bamboo Band

Closing Ceremony and Banquet: 7:00–10:00 p.m.

星期四, 2012年八月三十日

先进木材加工技术会议 2: 8:00–11:30 a.m.

主要议题: 纳米技术; 木材特性;

木材改性; 木材基础科学;

午餐: 11:30 a.m.–1:30 p.m.

木材文化议题: 1:30–5:00 p.m.

主要议题: 木雕技术; 油漆技术; 木家具

和雕刻技术; 乐器 (特别为中国乐器); 乐器所使用的材种;

“木质网篮”由Hoshiko Horiuchi创建, 在Hakone 露天博物馆展示

的“木质网篮”; 世界各地的木质面具; 中国木质棋盘;

中国木质雨伞 (约3500年历史); 日本的Kami, Hyogo木文化博物馆

和世界各地的木材博物馆; 木材与宗教 (佛教) 的联系;

木质钟表和木材体育器械;

木文化物品的展示;

总结会议: 4:30–5:00 p.m. 竹材乐队参与

闭幕式和晚宴: 7:00–10:00 p.m.

Friday, August 31, 2012

All-day Tours

Chinese Academy of Forestry

½ day tour of flooring plant

½ day tour of furniture plant

Lunch

星期五, 2012年八月三十一日

全天参观:

中国林业科学院;

半天木地板车间的参观;

半天木制家具车间的参观;

午餐



"Sustainable Development of Wood and Biomass in our New Global Economy"
Technical Sessions at the

**2012 SWST International Convention,
International Centre for Bamboo and Rattan, Beijing, China**

August 27-31, 2012

Call for Papers : Due January 1, 2012!

Send to: abstracts2012@swst.org

CALL FOR PAPERS in

**"Sustainable Development of Wood and Biomass in our
New Global Economy"**

The *Society of Wood Science and Technology* (SWST) will hold its International Convention in Beijing, China, together with our co-hosts **International Centre for Bamboo and Rattan (ICBR)**. This five-day meeting will be held August 27-31, 2012, and includes technical sessions on **Global Trade, Energy and Carbon Issues, Development and Research in Bamboo and Other Agri Fibers, Sustainable Resources for the Future, Advanced Wood Processing, and Wood and Agri Fibers Culture**. The final day will be a day-long tour of Chinese Academy of Forestry, a Chinese door manufacturer and a Chinese flooring manufacturer.

We invite submissions of ABSTRACTS for the sessions (see sample abstract at end):

❖ **Global Trade Session:**

Topic areas: Availability of wood around the world; Trade options between China and other parts of the world (specifically the United States, Africa, Europe, Russia, etc); International product standards; Trade barriers

❖ **Energy and Carbon Issues Session:**

Topic areas: Emissions; Reduced energy use; Bioenergy; Carbon sequestration by wood and by forests; Production of energy from biomass

❖ **Development and Research in Bamboo and other Agri Fibers Session:**

Topic areas: Housing; Structural applications; Benefits to use bamboo and other agri fibers; Uses around the world

❖ **Sustainable Resources for the Future Session:**

Topic areas: Sustainability of wood; Plantations; Characteristics of wood from plantations and from typical forests; Engineered wood; Testing facilities, Reuse and Recycling

❖ **Advanced Wood Processing Session:**

Topic areas: Housing and structural use of wood around the world; Properties of wood; Wood modification; Basic sciences of wood; Nanotechnology

❖ **Wood and Agri Fibers Culture Session:**

Topic areas: Sculptures; Paintings; Furniture and carving; Musical instruments (especially Chinese ones); Species used for instruments; “Woods of Net” by Toshiko Horiuchi - The Hakone Open Air Museum; Wooden masks around the world; Chinese wooden abacus; Chinese wood umbrella (3,500 years old); The Museum for wood culture in Kami, Hyogo, Japan and other wood museums around the world; Relates to religion (Buddha); Clocks and sports equipment

Approximately six abstracts will be selected for presentation at each of the 3-1/2 hour technical sessions. Abstracts not selected for Oral presentation will be accepted as Posters. All accepted Oral and Poster presentations will require a 4-8 page technical paper (Due June 1, 2012) to be published by SWST in a Proceedings (CD) given to all International Convention attendees, and then electronically published via the internet on the SWST webpage at www.swst.org. Please note that all posters, PowerPoint presentations, and written papers must be in English. There will be Chinese and English translation of oral presentations available at the convention.

For further information on the technical sessions for “Sustainable Development of Wood and Biomass in our New Global Economy” at the SWST 2012 International Convention in Beijing, China, please contact: Alain Cloutier (alain.cloutier@sbfulaval.ca). For further information on the SWST 2012 International Convention in Beijing, China, contact Vicki Herian (vicki@swst.org) or see the webpages: <http://www.swst.org/meetings/AM12/index.html>

You can register now at <http://www.swst.org/meetings/AM12/regform.html>

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2012 All Division 5 Conference

Conference Topics

Wood Quality

All aspects of the wood quality (natural and plantation grown trees; temperate and tropical forests) to promote a better understanding of the various factors which affect the tree growth and wood properties and suitability for processing. In particular, how the environment and other factors influence wood properties (physical and chemical), how these properties may be controlled by a changing wood resource, and how these properties influence the utilization of the material. The ultimate goal of such knowledge is the sustainable and better targetted utilization of our wood resource.

Physiomechanical Properties of Wood

Forecasts indicate that there will be increased worldwide demand for both conventional structural materials and innovative structural products. These indications, along with a growing need to conserve timber resources necessitates the development of improved and/or new design and construction methods that reduce inefficient uses of material and utilize products compatible with a forest resource that is changing. Increasingly, small diameter trees, plantation wood and wood from underutilized species are becoming large components of the forest resource base.

Wood-based materials and their Applications/Wood Processing

Discussion will cover the processing of all kinds of wood products on a worldwide basis, and efforts to promote the processing of forest products to sustain productivity in an environmentally acceptable and efficient manner. Topics include research on wood drying, adhesives and wood gluing, sawing, milling and machining, production systematics, finishing and surfacing, and industrial engineering operations. A special focus is material from small-diameter trees and underutilized species. New processing technologies also will be covered.

Wood Protection

The conservation of existing wood products is important to the sustainability of our timber resources. Three major threats to the expected long service life of wood products – fire, biodeterioration and weathering – can be mitigated by proper design and use. This topic focuses on these subjects. The topic is of general interest to the international research community on wood preservation, non-biocidal wood protection and fire protection issues, by providing a forum for discussing the critical issues facing research in wood protection and fire protection in the world today. The International Research Group on Wood Protection (www.irg-wp.com) will also be co-organizing the wood protection session(s).

Composites and Reconstituted Products

Sustainability of raw materials for producing all manufactured items and feedstocks is an important issue in the world today. Research in this area covers the use of various types of wood and additives to produce new, innovative products to replace scarce resource and non-renewable materials. Discussion will cover new developments.

Pulp & Paper

This is a new area for D5 and contributions are sought in all aspects of pulp and papermaking, to provide useful discussion. Focus will be on developing countries and lesser-

known species.

Properties and Utilization of Plantation Woods

More and more tree species have been introduced into forest plantation programmes. Discussion will cover information on the properties and utilization of newly introduced and exotic plantations, particularly in developing nations. Of principle interest of research on dry-area species, teak and eucalypts.

Energy and Chemicals from Forest Biomass

This topic covers the sustainable use, production and processing of renewable forest biomass for energy and useful chemicals. The areas of research of interest are direct combustion and gasification for heat, power and gaseous fuel production and liquid fuel production - namely ethanol and methanol through biochemical and thermal conversion. Other interests are: charcoal production for solid fuels, metallurgical use and activated carbon. Research into other chemicals from wood covers lignin, hemicellulose, cellulose and their derivatives, essential oils, pyrolysis derived polyphenols for adhesives.

Forest Products Marketing

Forest Products Marketing and Business Management covers all aspects of forest products business with a focus on marketing. Discussion is encouraged on a myriad of issues and topics on a global basis. Examples include sustainable business management practices, value-addition strategies, marketing, management, consumer behavior, Internet marketing, supply chain management, innovation, strategic positioning, branding, certification, and policy.

Non-wood Forest Products

Sessions will cover the wide variety of non-wood products found in forests around the world, and research to promote the discovery, development, and wise use of these resources. Special emphasis is on research on medicinal and aromatic plants, edible plant products and forest fungi, resins and gums, and many other so-called "minor forest products" which have long been important for rural and native people and which provide new opportunities for commercial development. Bamboo and rattan are included.

Forest Products Education

Education in forest products is critical to innovation, technological progress in the entire industry sector, and the reception of wood in society per se. Over the past few decades education in forest products has been subject of major changes and if such trends continue, could have a negative impact on the wood product industry. This topic will provide a forum of discussion to evaluate current trends and strategy to meet future challenges in primary and secondary forest product education.

Wood Culture

The role of wood in culture is an interdisciplinary science area which provides a better understanding of the use and social aspects of wood from a cultural and historical perspective. Research in Wood Culture improves people's relationship with nature and opens new ways to understand wood from an economic, environmental, and social value perspective. Discussions will cover the historical and contemporary use of wood in different regions or countries in the world.

The Role of Wood in a Sustainable Society

Sustainable Production of Forest Products focuses on global issues regarding sustainably produced forest products. It provides a forum for researchers who study the production of wood and other forest products in a sustainable manner.

Among other things, the group members examine questions regarding green certification, life cycle analysis, wood products from sustainable managed forestry, and the economic contribution of wood products to sustainable forestry.

Education from the student's perspective

SWST and IUFRO D5.14.00 (Forest Products Education Session) are joining together to sponsor a session at the upcoming July 8-13, 2012 IUFRO All Division 5 Conference in Lisbon, Portugal. The session is entitled "Wood & Biofiber Science and its Technologies from a Student Perspective".

The reason for having all Students present in this session is that many students don't get an opportunity or the experience of presenting papers. Plus we would get a different perspective than from the normal "professor" types that present. It also will generate some interest in SWST student membership because we are trying to give the students new opportunities. Any submitted abstracts not accepted for oral presentation could be used as a poster presentation. Each oral and poster presentation will require a written paper (due March 1, 2012) so that oral and posters have equal weight in the published proceedings. A cd containing all session papers will be available for distribution at the session.

In order to compare research around the world, the areas that need to be covered by each speaker will be:

1. Overview of university research currently underway in their Department
2. Number of students in each BS, MS, PhD programs in their Department
3. Number of faculty in their Department
4. Types of degrees offered in their Department
5. Other universities in their country/global region that are similar (or maybe nearby countries)
6. 2/3 of time for personal research project presentation

Please find the attached "IUFRO 2012 Abstract Guidelines" and "Abstract Model Template". The abstracts should be sent to Rupert Wimmer at Rupert.Wimmer@boku.ac.at and to Victoria Herian at vicki@swst.org with a copy to Dave Cown at Dave.cown@scionresearch.com

Extended Deadline for submission is December 1, 2011!

Please also send this request on to others you know who may have students who are interested in attending and obtaining an unique experience. IUFRO does have some funding available for a Young Scientist Program to supplement funds for students. More information can be found at http://www.iufro2012.org/nm_quemsomos.php?id=40

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News from the USDA

*The Partnerships for Enhanced Engagement in Research (PEER) program is now accepting proposals from developing country researchers interested in collaborating with their U.S. counterparts. Proposal submission instructions, and the application form are available at <http://www.nationalacademies.org/peer>. PEER is being implemented by the National Academies on behalf of USAID, and potential applicants with questions are invited to contact the program's staff at

peer@nas.edu<<mailto:peer@nas.edu><<mailto:peer@nas.edu>%3c<mailto:peer@nas.edu>>>>.

*NIFA Climate, Bioenergy and NIFA Fellows RFA

<http://www.nifa.usda.gov/fo/recentReleasedGrants.cfm>

* Graduate Research Fellowship

<http://nsf.gov/pubs/2011/nsf11582/nsf11582.htm>. Deadline for all SBE sciences is now November 16, 2011. Applicants must have completed no more than 12 months of full time graduate study or its equivalent by August 1, 2011 (except in cases of extenuating circumstances...see solicitation). Reference writer deadlines and format of letters have changed. Letters must be submitted by November 29, 2011 by 7pm Eastern Standard Time.

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Assistant Professor of Forest Products

*Department of Forest Products,
Forest and Wildlife Research Center/College of Forest Resources
Division of Agriculture, Forestry and Veterinary Medicine
Mississippi State University*

Description:

The Forest and Wildlife Research Center/College of Forest Resources, Mississippi State University is seeking to fill a 12-month, Tenure-track, fulltime, Assistant Professor Position with research, teaching and service responsibilities in the area of wood protection and preservation, within the Department of Forest Products. Particular consideration will be given to candidates with expertise and high potential in fundamental aspects of this discipline such as wood-inhabiting insects and fungi including entomology, mycology, microbiology, bioproducts, etc. The successful candidate must possess a Ph.D. from an accredited institution of higher learning in either Wood Science/Forest Products or an allied scientific discipline such as biology, mycology, marketing, business, or other as appropriate. Experience is preferred in forest products or a related field with respect to proposing, conducting and

producing applied and basic research results. Primary responsibilities include: develop and conduct a program of research in forest products/wood science and technology with an emphasis on research and development in wood protection and preservation, bioproducts science, sustainability, building science, or allied areas; build a nationally recognized and extramurally funded research program; collaborate within the department, college and university as well as with external stakeholders such as industry, other universities, government and nongovernmental organizations; teach undergraduate and graduate courses as appropriate, assist in programmatic student advising, curriculum development, and other departmental responsibilities as appropriate.

Application Process:

All applicants must apply on line at www.jobs.msstate.edu, must complete the Personal Data Information Form, and will be required to submit a cover letter, resume, three letters of professional recommendation, and official transcripts of all college work. Application reviews will begin December 1, 2011.

Mississippi State University is an AA/EOE.

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THE UNIVERSITY OF BRITISH COLUMBIA **Forest Sciences Department** **Head of Department**

The Forest Sciences Department – one of three Departments within the Faculty of Forestry – comprises 21 faculty members, including 5 joint appointments, 3 Chairs fully or partly funded by NSERC, CRC or Endowments, 6 staff positions, and a current complement of 77 graduate students. The Faculty of Forestry offers three undergraduate programs, two of which are jointly overseen by the departments of Forest Sciences and Forest Resources Management.

Research and teaching in the Department focuses on the forest as a biological system, addressing questions about how that system functions (at spatial scales from the molecular to landscapes) and how it can be manipulated to yield desirable goods and services. For more information on the Faculty and Department, visit our web site at www.forestry.ubc.ca.

The Head is responsible for the overall administration of the Department (including faculty leadership and development, strategic planning, staffing and budgeting) and also serves on the Faculty's Senior Management Team. The Head is expected to (i) ensure that courses are suitably staffed, (ii) take an active role in curriculum and program review, (iii) foster interaction among faculty members, (iv) mentor members of the Department, (v) conduct annual evaluations of each faculty member in the Department and (vi) review all grant applications from Department members with the aim of both improving them and finding opportunities for collaboration, and (vii) serve as the advocate for Department members within the Faculty and the University. The Department Head is also responsible for administering University policies with respect to sexual harassment, conflict of interest, and other matters. As a member of the Department, the Head will be expected to maintain an active research program in any field related to forest sciences, supervise graduate students and otherwise contribute to the Department's teaching programs.

The successful candidate will have demonstrated excellence in research, teaching, leadership and management skills. The ability to lead and motivate an outstanding department is a key requisite for this position. This position is open to internal applicants at the rank of Professor with tenure.

Applicants should submit a letter stating their interests and qualifications, a curriculum vitae including identification of three or more key publications or reports, and the names and contact information for three or more referees. Salary will commensurate with qualifications and experience. Starting date for the position will be **January 1, 2012** - or as soon thereafter as a suitable candidate is found.

Please direct inquiries, nominations and applications by **November 4, 2011** to:

Dr. John L. Innes
Dean, Faculty of Forestry
The University of British Columbia
2004-2424 Main Mall
Vancouver, BC V6T 1Z4 Canada
Tel 604-822-6761 | Fax 604-822-8157
E-mail: john.innes@ubc.ca

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

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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 David Jones, at: pdjones@cfr.msstate.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

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SWST Visiting Scientist Program

The Society of Wood Science and Technology invites you to participate in the SWST Visiting Scientist Program as a "host Institution". Please fill out a "[Request to Participate Form](#)" (PDF) and send it to the Executive Office. A list of available visiting scientists is available at: <http://www.swst.org/vsp/vsplist.pdf>

The procedure to participate as a host institution is as follows:

1. Fill out the request to participate form and return to the address on the bottom of the form. In selecting a Visiting Scientist, please consider the cost associated with cross-country travel since the Program has a limited budget. Note that the form has a convenient entry in which you can offer to contribute to the Visiting Scientist Program to permit us to cover more visits.
2. The request will be reviewed by the Visiting Scientist Program Committee, who will contact both the institution and the Visiting Scientist. This is a very important step, since we are many times able to coordinate multiple visits by the same Scientist.
3. Once the visit has been approved, the institution and scientist will be asked to arrange the details of the visit (dates, subject, etc).
4. The host institutions are to provide lodging, meals, and local transportation for the Visiting Scientist. The normal visit is one to two days. The host institution will also be expected to arrange for appropriate "PR" to maximize the value of the visit.
5. Following the visit, the requesting member at the host institution will be asked to provide a report on the visit. This will be published in the bimonthly SWST Newsletter. The Visiting Scientist Program will reimburse the scientist for travel expenses.

The SWST Visiting Scientist list includes only SWST members in good standing. If you are interested in a visit by someone not listed, please be sure to note that on the request form. Since the Program is supported through SWST member dues, the policy is to approve visits by SWST members only. If you have any special programs or questions, please do not hesitate to contact us.

Visiting Scientist Program

Society of Wood Science and Technology

P.O. Box 6155

Monona, WI 53716

PHONE: 608-577-1342

FAX: 608-467-8979

E-mail: vicki@swst.org

For more information: <http://www.swst.org/vsp/>

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