



The Newsletter
of
The Society of Wood Science and
Technology
•January-February 2012•

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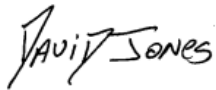
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From the Editor

The SWST board met in Miami, Florida to discuss SWST business. The board is looking at expanding membership, visibility, and impact on the World. Those that are serving on committees, new action items are headed your way, for those not currently serving on any committees, think about volunteering. The society is needs your involvement, and participation. As always, any news, announcements, or editorials can be sent to pdjones@cfr.msstate.edu .

Cheers,



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Passing of Harold Tarkow

Harold Tarkow, age 99, passed away on Friday, Feb. 10, 2012, at his home in Madison, Wisconsin. Immediate survivors include his wife, Ethel Waisman Tarkow of Madison; a son, Ted (Marjorie) Tarkow of Columbia, Mo.; a daughter-in-law, Janine Tarkow of San Diego, Calif.; and a granddaughter, Shoshanah Tarkow of New York, N.Y.

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Position Statement Review

The policy and critical issues committee was charged with developing a position statement about “why wood should be a priority in funding.” Currently SWST is seeking comments from the membership of the organization on the draft statement. A copy of the statement can be found at:

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

Comments concerning the position statement should be sent to Vicki Herian vicki@swst.org by Sunday April 15th, 2012.

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Student Chapter Formation

Students at Mississippi State University’s department of Forest Products have formed a student chapter of SWST. Currently they are writing a constitution for the chapter that is acceptable for the university, but are operating under provisions set forth by the society. Once the constitution is accepted it will be placed on the SWST website to as an example and template that can help other universities form chapters.

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Wood Culture and SWST

The SWST 2012 Annual Meeting this August in Beijing will include an international Wood Culture session planned for Thursday afternoon, August 30. This session will serve as an excellent opportunity to gain insight into Wood Culture, which is an interdisciplinary science area that increases understanding of the societal use and social aspects of wood from a cultural perspective. Research in Wood Culture improves people's relationship with nature and opens new ways to understand wood from an economic, environmental and social values perspective. Two recent international meetings, at which I presented, demonstrate some of the interesting aspects of Wood Culture.

The first conference and exhibition in Bangalore, India, October 19-22, 2011, was one of a number of events held around the world to celebrate 2011 as the International Year of Forests. *Rediscovering Wood: The Key to a Sustainable Future, an International Conference and Exhibition on the Art and Joy of Wood* was sponsored by the government of India, the Food and Agriculture Organization (FAO), and the International Wood Culture Society (IWCS). There were 4 days of professional presentations and demonstrations followed by a field trip, which included a visit to Channapatna, famous for the production of lacquered wooden dolls and toys. They wood toys are made in 250 home workshops (as seen in the photo), as well as 50 small factories, and provide significant employment for a village area.



The second was a China wood and forest culture meeting in Yunnan Province, December 2-10, 2011. The 4th International Symposium on Forest Culture in Kunming was followed by tours to Xishuangbana Prefecture near the Laos border and Chuxiong City about 100 miles west of Kunming. The tours focused on the concept that greater wood use can make a significant and valuable contribution to societal goals for a more sustainable future. The tours also examined how the many ethnic cultures of Yunnan Province influence biodiversity using methodologies from classic ethno-botany. Shown at the base of a giant *Tetrameles Nudiflora* in Xishuangbana Prefecture, are me, my wife (Anita Rosen), and Dr. Shengji Pei, our tour guide and a leading Chinese ethno-biologist. Also shown is a woodworking plant where a variety of wood products are made from all parts of the tree as well as recycled wood components.



Howard Rosen
IWCS
IUFRO Wood Culture Working Party Chair

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ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY

☒ 1888 Fon: +251-221-11-15-73 Fax: +251-221-10-00-80 email: HoL@adama-university.net

አዳማ - ኢትዮጵያ
 Adama, Ethiopia

Adama Science and Technology University

Date/ Jan 19, 2012

Ref/Lib/5351/2004

Library Director
Amelework Wube

To whom it may concern

This is to confirm that the Main Library of Adama Science & Technology University has endorsed more than 100 hardecopies of the “Wood and Fiber Science Journal” ranging from year 1970 to 2010.

We would like to thank the Society of Wood Science & Technology (SWST) Monona, USA for donating the Journals and enriching our library resources. In this regard the efforts of Dr William Tze (SWST Membership Chair), Ms Victoria L. Herian (SWST Executive Director) and Dr Manoj Kumar Dubey (SWST Member & Assistant Professor Adama Science & Technology University) are very much appreciated.

With best regards,

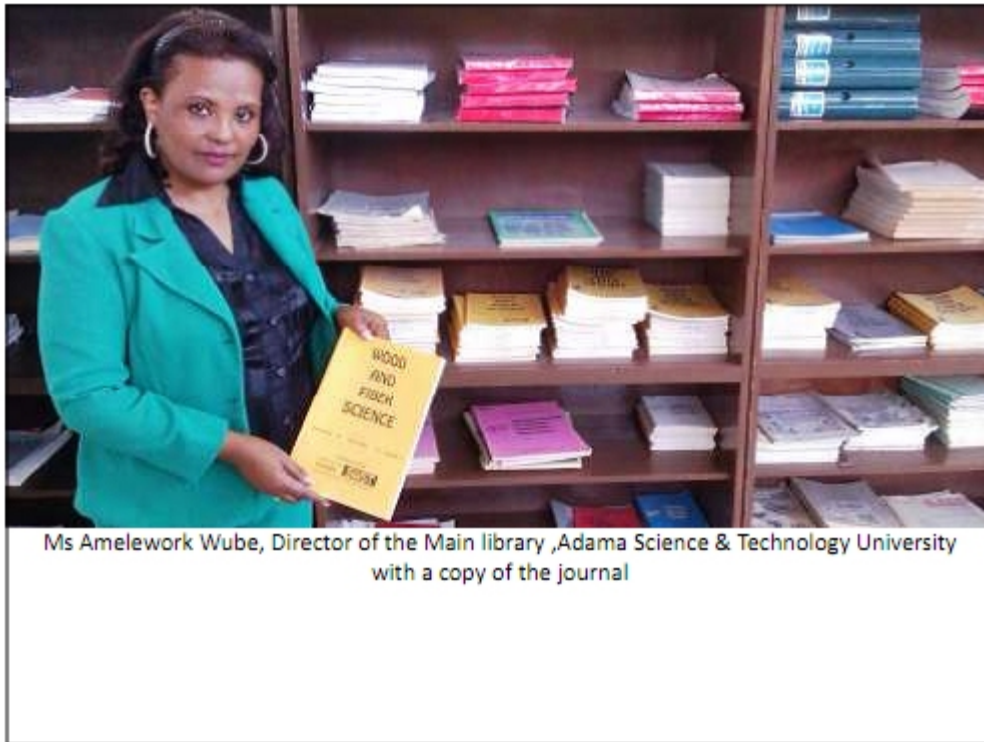
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Cc:

- President Office
- A/V/President
- Department of Wood Technology
 ASTU
 Adama

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Ms Amelework Wube, Director of the Main library ,Adama Science & Technology University with a copy of the journal

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College of Natural Resources and Environment department renamed Sustainable Biomaterials to reflect wider scope

BLACKSBURG, Va., Feb. 13, 2012 – The wood science and forest products department in Virginia Tech’s College of Natural Resources and Environment has changed its name to the Department of Sustainable Biomaterials.

The decision was based on a desire to more accurately reflect the wide scope of education and research being done by the department and aligns with the college’s broader transition in recent years toward an increased emphasis on sustainability and the environment. The State Council of Higher Education for Virginia approved the name change on Feb. 1.

The department, established in 1979 as an offshoot of the university’s strong forestry program, has become a recognized North American leader in student education, research, and outreach. In recent years, faculty expertise has diversified to include education and research activities in nanomaterials, drug delivery, adhesion science, advanced composites, nontimber forest products, biofuels, aseptic packaging, and sustainable biomaterials.

“Sustainable biomaterials is a term that recognizes our broadening path for the future while maintaining our roots in natural materials, including forest products,” said Department Head

Barry Goodell. “The forest industries of Virginia remain a \$25-billion contributor to the state’s economy, and we will continue to serve this important sector,” Goodell continued. “The new department name is broad enough to encompass newer aspects of the field, such as biofuels and renewable materials. We will continue to work with wood, the most widely used biomaterial, but we are expanding our focus to include other natural materials as well.”

Paul Winistorfer, dean of the college and former head of the department, said, “We are working to put science behind the theme of sustainability, and the increased use of natural renewable materials must be a key part of our global sustainability commitment.”

“The Department of Sustainable Biomaterials will have the opportunity to shift the materials-use paradigm among academics, the industry, and the public at large,” Winistorfer said. “We are leveraging our traditional strengths to a larger, societal perspective.”

Programs at other universities, such as North Carolina State University, Oregon State University, and the University of Minnesota, have changed their names to contain such terms as biomaterials, bioproducts, and renewable materials. These terms have also been adopted by leading international research programs, including Kyoto University’s Division of Forest and Biomaterials Science in Japan, the Max Plank Institute of Colloids and Interfaces’ Department of Biomaterials in Germany, and the Centre for Biocomposites and Biomaterials Processing in Canada.

“We are excited about the opportunity to continue serving the needs of our core industrial partners and society at large while reflecting our expanding research options,” Goodell said. “In particular, we know that the term sustainable biomaterials positively reflects the activities of the department to our students and prospective students, which is helping to increase educational interest in this field.”

For many years department faculty members have been conducting research that doesn’t fit easily under the banner of wood science and forest products. For example, Professor [Kevin Edgar’s research](#) using polysaccharides from natural sources for improved delivery of anticancer compounds crosses disciplinary boundaries, as does Associate Professor [Scott Renneckar’s nanocellulose research](#) focusing on converting biobased feedstocks into materials and composites.

Associate Professor [Maren Roman’s research](#) targets cellulose drug delivery and nanoscale materials for bone repair scaffolds. Goodell himself has conducted research on the bioconversion of wood/cellulosic materials for biofuels, as well as on the development of nanoporous carbon and carbon nanotubes for energy storage applications.

All faculty in the department are contributing their expertise to expand and redefine the realm of teaching, research, and outreach activities, such as innovation-based manufacturing, lean business, sustainable building technologies, and packaging systems and design. The new department name encompasses the faculty expertise in a more accurate and forward-looking way and will help define new opportunities for students.

“Our undergraduate enrollment has almost doubled in the year since we began using the term sustainable biomaterials on our website and in our recruiting materials,” Goodell said. “This is due to the efforts of our faculty and students in advancing the program in the new directions the name represents. We have several exciting degree programs under development that will continue to broaden the career opportunities for our students.”

Recent analyses indicate the strength of this employment sector. An analysis published by [Wired Magazine](#) of 7 million LinkedIn users who switched industries in the past five years showed the strongest gains in the renewables and the environment category — almost double the growth of any other field. An [IBISWorld report](#) forecasts that the sustainable building material manufacturing industry will post the fastest growth in wages over the next five years.

“From the many employer requests we receive for our graduates, we anticipate strong demand from businesses in many different economic sectors,” said Goodell. “In 2011, all of the department’s graduates landed career-level positions.”

The [College of Natural Resources and Environment](#) at Virginia Tech consistently ranks among the top three programs of its kind in the nation. Faculty members stress both the technical and human elements of natural resources and the environment, and instill in students a sense of stewardship, land-use ethics, and large-scale systems problem solving. Areas of study include environmental resource management, fisheries and wildlife sciences, forestry, geospatial and environmental analysis, natural resource recreation, urban forestry, wood science and forest products, geography, and international development. Virginia Tech, the most comprehensive university in Virginia, is dedicated to quality, innovation, and results to the commonwealth, the nation, and the world.

[Lynn Davis](#)
540-231-6157
davisl@vt.edu

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2016 International Convention - Call for Proposals

SWST is issuing a Call for Proposals for co-hosting our 2016 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 using the following budget document:

[Budget Form](#)

and send along with the proposal to Vicki Herian at

SWST

P.O. Box 6155

Monona, WI 53716-6155

Phone: (608) 577-1342

Fax: (608) 467-8979

E-mail: vicki@swst.org

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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



北京欢迎你

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

未来可持续利用的资源议题组: 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; 木家具和雕饰技术; 乐器 (特别为中国乐器); 乐器所使用的材种; “木质网罟” 由Hoshiko Horiuchi创建, 在Hakone 露天博物馆展示的“木质网罟”; 世界各地的木质面具; 中国木质髹漆; 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

Visa Information

Passport & Visa: L-Visas for single or multiple entry for tourists are valid for 30 to 60 days.

*An L-Visa for tourist is what most people should use. It is much simpler and does not require anything from the Chinese government.

SWST recommends this unless your country or institution requires a business visa.

Registration Information

Register now to secure your attendance at the upcoming convention. You can do so at

<http://swst.org/meetings/AM12/registration.html>

Hotel Accommodation - IBR Tower

You can now reserve your hotel room online by filling out the "Registration Form" on the Accommodation page and emailing to ztxiaoshoubu@sina.cn

<http://eng.icbr.ac.cn/IBRT/english/OnlineReservation.html>

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"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 : Extended to March 31st, 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@sbf.ulaval.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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Assistant / Associate Professor
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 9 or 12-month, Tenure-track, fulltime, Assistant/Associate Professor Position with research, teaching and service responsibilities in the area of Biobased Composites. Incumbent will participate in all aspects of the Forest Products Department research, teaching, and service program. Incumbent will develop and conduct a program of research in forest products/wood science and technology with an emphasis on wood /biobased composites. Candidate will be expected to vigorously pursue extramural funding through scientific-based competitive grants, industrial grants and contracts, etc. and to build a nationally recognized research program. Incumbent will teach undergraduate and graduate courses, such as biobased composites and assist in programmatic student advising, curriculum development, and other departmental responsibilities as appropriate. Particular emphasis will be placed on advising graduate students. Incumbent will be expected to provide professional service within the university and with external stakeholders such as professional organizations, manufacturing entities, trade organizations, etc. Active collaborations within the department, college, and university as well as with external stakeholders such as industry, other universities, government and nongovernmental organizations, etc. to advance the tripartite land-grant mission are expected. The successful candidate must possess a Ph.D. from an accredited institution of higher learning in either Wood Science, Forest/Biobased Products or an allied scientific discipline such as engineering, or other 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, two letters of professional recommendation, and transcripts of all college work.

Official transcripts will be required from the successful candidate.

Mississippi State University is an AA/EOE.

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School of Renewable Natural Resources
Louisiana Forest Products Development Center
227 Renewable Natural Resources Building
Baton Rouge, LA 70803
(225)578-8369
E-mail: wuqing@lsu.edu
FAX: (225)578-4251
Web sites: www.rnr.lsu.edu
www.lsuagcenter.com

POSITION VACANCY ANNOUNCEMENT
LSU Economic Development Assistantship
(Wood/Natural Fiber and Polymer Composites)

An assistantship in the amount of \$25,000 per year for up to four years is available for an incoming outstanding doctoral student in the area of Wood/Natural Fiber Polymer Composites. The assistantship offer is available for 12 months a year beginning in Fall 2012. The student will be responsible for paying University fees while a tuition exemption is provided for both resident and non-resident tuition. A student insurance supplement of about \$350 each for fall and spring semesters is also provided if the student selects one of the LSU sponsored health insurance programs. The students who will be awarded ED Assistantships must maintain a 3.5 overall and semester GPA.

The deadline for submitting the stated preliminary application materials is March 31, 2012 (or until selected). Candidates after preliminary selection will be contacted for formal admission and other formalities. Contract with selected student must be signed by May 31, 2012.

Interested PhD students who have BS and MS degrees in Polymer Chemistry/Engineering, Material Science, Forest Products, or a closely related field should contact the following address (electronically only) with (1) A Resume, (2) A Statement of Purpose, (3) Copies of BS and MS transcripts, and (4) TOEFL and GRE scores.

Dr. Qinglin Wu
Roy O. Martin Sr. Professor, Composites and Engineered Wood Products
School of Renewable Natural Resources
LSU Agricultural Center
Baton Rouge, LA 70803

e-mail: wuqing@lsu.edu
phone: (225) 578-8369

<http://www.rnr.lsu.edu/people/wu/Default.htm>

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**Assistant Professor of Anatomy of Renewable Materials
Department of Wood Science & Engineering**

The College of Forestry at Oregon State University invites applications for the position of Assistant Professor of Anatomy of Renewable Materials, Department of Wood Science & Engineering. The position becomes available January 1, 2013 (an earlier date may be negotiable). This is a 0.75 FTE, 12-month or full-time 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 their approved position description. Responsibilities include teaching and conducting research in areas such as anatomy as it relates to material properties or relationships between stem function and anatomy. The ability to collaborate across disciplines to bring the tools of anatomy to bear on research questions in material sciences and engineering is essential.

Minimum requirements include, but are not limited to, a PhD in botany, wood science, materials science or a related science field completed prior to the position start date.

Application procedure: To view the posting and apply, go to <http://oregonstate.edu/jobs/> and search for posting #0008621. When applying, applicants will be required to upload the following documents: 1) Resume/Vita (upload to Resume/Vita); 2) Cover Letter specifically addressing all qualifications for this position (upload to Cover Letter); 3) Statement of philosophy of teaching and research (upload to Other Document); and 4) contact information, including email address, for 3 to 5 professional references (upload to Other Document 2). Apply by May 1, 2012.

For additional information or questions regarding this position, please contact Jeff Morrell at 541-737-4222 or jeff.morrell@oregonstate.edu. For questions regarding the application process, please contact Jeannette Harper at 541-737-6554 or jeannette.harper@oregonstate.edu.

Oregon State University is located in Corvallis, a vibrant college town of 54,500 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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Candidates for the Wilhelm Klauditz Fellowship

The Fellowship is aimed to faculty eligible for sabbatical leave who want to pursue world-class research at the Fraunhofer WKI.

The Wilhelm-Klauditz-Institut (WKI) is a part of the Fraunhofer-Gesellschaft (<http://www.fraunhofer.de/en/>) and belongs to top research facilities in Europe. The Fellowship will cover travel expenses to and from Braunschweig, Germany (<http://www.braunschweig.de/english>) and a stipend of up to 36,000 Euros (gross) per year. Office and laboratory space for the proposed research will be provided.

Interested candidates are encouraged to submit the following documents:

- Current resume with the list of publications and research accomplishments
- Short, max. one page pre-proposal describing the research to be conducted at WKI and expected results
- Requested duration of the stay (min 6 Mo)

Selected candidates will be asked to submit full proposal and three letters of recommendation. The proposals can be in any area of the applicant's interest (not necessarily areas currently covered by the Institute) and must contain link to potential applications or research implementation. Research proposals in the areas of but not limited to wood composite materials, natural materials based high strength cellulose or carbon fibers, and novel materials and technologies are of a particular interest.

Applicants are encouraged to review the WKI web site for information about the facilities available at the Institute and are expected to conduct independent research while at WKI. Reasonable research and travel budgets will be provided by the Institute. Applications are accepted until the position is filled.

Applications should be sent to
**Prof. Dr. Ing. Bohumil Kasal, Director, Fraunhofer WKI,
Bienroder Weg 54E, 38108 Braunschweig, Germany,**

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Doctoral researchers in Forest Products, with a focus on new environment-friendly board-materials situated at the School of Technology

Research Area

The position is available at Linnæus University, School of Technology in the Faculty of Natural Sciences and Engineering. The doctoral candidate is attached to the IKEA research programme – The Bridge, a programme for entrepreneurship, innovation and production - for a better everyday life at home for the many people.

Job description

Project: New environment-friendly board materials

With the support of the board manufacturer Swedspan and Ikea of Sweden, Linnaeus University has established a new field of research which focuses on developing new environment-friendly board materials.

The board industry and many other wood-refining industries are giving priority to the use of more environmentally adapted and sustainable materials in their product ranges. In the short term, wood is the natural choice of material, but in the long term other raw materials from the plant kingdom can also be of interest. The wood-based board industry is extremely competition-sensitive with respect to the availability of wood raw material for its processes.

The formaldehyde-based adhesives currently being used within the board industry have a high technical performance and a low price. Formaldehyde in the adhesives will however probably be completely forbidden in the near future, and emissions will be permitted only at a level comparable with the wood's natural level. A zero-level of formaldehyde in adhesives will have consequences for the whole value chain; from the home environment, to the purchasing of raw material. It is a great challenge to develop formaldehyde-free adhesive systems to meet the needs of the board industry.

The project New environment-friendly board materials has a clear focus on adhesive systems for the board industry. A milestone in the project is to reduce the emission of formaldehyde from particle boards to the level of wood. Other aspects that are relevant to the project are e.g. how the design can improve the final product, such as furniture performance? How should the board materials, processes and final products be designed to be recycled in an environmental and economic correct way?

We believe that you are interested in this position have a chemistry or polymer engineering background, but with curiosity and a keen interest in design, product development, the environment and to reconsider established views.

The researcher is unique and will provide a highly attractive competence for the future. Linnaeus University offers the funding of the doctoral position for an entire period of four years. The candidate is expected to start in May 2012 Växjö campus, Sweden.

At least 80 % of employment is completed in the form of PhD programs in accordance with individual study. No more than 20 % of employment is teaching and administration.

Assessment criteria/Qualifications

Basic eligibility

Applicants should have

-a masters-degree level in Forest Products with a chemical or polymer orientation, Wood or Polymer Chemistry, Adhesive Chemistry or other equivalent qualification,

-completed studies for at least 240 higher education credits of which at least 60 higher education credits were awarded at advanced level.

The candidate will have a keen interest towards cross-disciplinary research theme and team. An active participation in developing the international research community will be well appreciated. The candidate is expected to have an excellent documented command of the English language.

Transitional rule for basic eligibility

The person before July 1, 2007 to comply with the requirements for basic qualifications (bachelor's degree and 60 "old" points on the subject) for admission to graduate must also be considered to have basic eligibility for admission to postgraduate studies. This is valid until year 2015.

Other qualifications sought

The selection of a candidate among those fulfilling the basic requirements will be done based on the candidates' ability to assimilate the PhD-studies in the research area, the ability to communicate in English, the quality of any previous scientific work and CV. Swedish is not required for the appointment, but the applicant should be prepared, within a few years to be able to take on tasks that require an understanding of Swedish.

Applicants are encouraged to attach a relevant paper or thesis, witnessed records of grades and attests, references and other relevant documents.

Relative weight placed on different selection criteria

The following weights are assigned to the three major selection criteria:

1. ability to assimilate the PhD-studies
2. competence in the field of research area
3. ability to communicate in English

Terms of employment

100 % employment to the PhD

Information

Questions directed towards the doctoral post and the research area should be directed to: Professor in Forest Products Dick Sandberg, +46 (0)70 642 0867, dick.sandberg@lnu.se
Professor in Forest Products Thomas Thörnqvist +46 (0)70 508 3839, thomas.thornqvist@lnu.se

Union representatives be accessed via the university switchboard, +46 (0)772-28 80 00.

Matters of employment will be answered by staff consultant Åsa Wiberg, +46 (0)470 70

8287, asa.m.wiberg@lnu.se

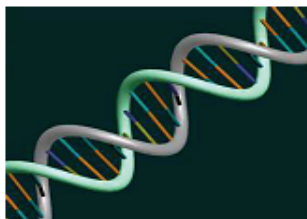
The application has to be registered no later than April 10, 2012. Ref.no is: PA 2012/110
More information will be found on the Linnaeus University homepage, under the heading
Work with us, where you apply. (Application can also be sent to Linnaeus University,
Registrar, SE-351 95 VÄXJÖ.) Remember to enclose other relevant appendices like degree
certificates, testimonials and publications, when applying via our website.
Recommended by the Board of School of Engineering 2012-02-22

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Bioprocess Engineering for Sustainability 2012 Research Experience for Undergraduates June 4-July 27 Virginia Tech

This National Science Foundation (NSF) sponsored Research Experience for Undergraduates (REU) gives undergraduate engineering students the opportunity to perform research and participate in educational programs in bioprocess engineering (BPE) and enjoy team-building and social activities in Blacksburg, VA. Research areas include synthetic biology and metabolic/genetic engineering for biofuel and biochemical production, protein engineering for biopharmaceuticals, and sustainable biomaterials. Participants will attend the 2012 American Chemical Society Green Chemistry and Engineering Conference in Washington, DC June 18-20.



Stipend: \$4,000/summer + room & board

Review of applications will begin on March 23, 2012

Applicants should be rising sophomore, junior, or senior undergraduate students in any engineering discipline with an interest in bioprocess engineering. Underrepresented minorities and women are particularly encouraged to apply.

Application forms and program information can be found at
<http://www.bse.vt.edu/reu>



Blacksburg, VA is a haven for outdoor enthusiasts

For more information contact:
Justin Barone, BPE NSF-REU Site Director
Biological Systems Engineering Department
Virginia Tech
(540) 231-0680
bpe-reu@vt.edu

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Benefits to you – now & later:

- Annual International Conventions

2012—Beijing, China

2013—Austin, Texas

2014—Zvolen, Slovakia

Only \$75!

- Student travel grants to attend international meetings and emerging country travel grants to North American meetings

- Full-Text online access to the journal *Wood & Fiber Science* as well as lower page charge rates to members

- George Marra Award for Excellence in Writing

- Career Information – Job vacancy and resume posting

- Participation in the Visiting Scientist Program

- Bi-monthly Newsletter

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- Your thesis or dissertation title printed in the Journal
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- Career Information – Job vacancy and resume posting

Only \$25!

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ABOUT SWST

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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>

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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 the 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.

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