



SWST Newsletter

· February 2011 ·

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Note from the Editor

I want to thank everyone for the opportunity to serve as your newsletter editor. If you have materials that you would like placed in the newsletter, please email them to pdjones@cfr.msstate.edu. If you have any questions or concerns please let me know also. I look forward to working with everyone. For those member who participate or would like to participate in the SWST Visiting Scientist Program, please take the time to update you information here:

http://www.swst.org/vsp/visitsci_signup.pdf



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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SAM ZELINKA RECEIVES EARLY CAREER SCIENTIST AWARD

Sam Zelinka has been chosen to receive the 2010 R&D Deputy Chief's Early Career Scientist Award. The letter from Forest Service Deputy Chief Reaves to Sam states, "You are being recognized for your outstanding research productivity, your major contribution and impact on science, and your excellent efforts in science delivery." Sam will receive his award at a ceremony in Washington, DC, on February 1st.

Congratulations, Sam!



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In Memoriam: Ruen C. Tang
By Jayne Regan

Dr. Ruen C. Tang, 76, passed away on February 5, 2011 at Duke Raleigh Hospital in Raleigh, NC. R.C. is survived by his wife, Anna, of 50 years and his daughters Gina, Sophia, and Jayne and their families.

R.C. received his B.S in Forest Science from the National Chung-Hsing University in Taiwan in 1957, and a Ph.D degree in Wood Science from North Carolina State University in 1968. He was a Research Associate at the Institute of Theoretical and Applied Mechanics and the Department of Civil Engineering at the University of Kentucky from 1968 to 1970. He also served as Assistant and Associate Professor in the Department of Forestry at the University of Kentucky from 1970 to 1977. He conducted research on a variety of areas in forest products and utilization, wood mechanics, fiber physics, and timber engineering.

R.C retired from Auburn University in Auburn, AL in 2007 after nearly 30 years as a Professor Emeritus and Researcher in the School of Forestry and Wildlife Sciences. He concentrated his research activities in the areas of composite structural panels and lumber and the environmental effects on the long-term engineering performance of wood composite structural systems. He also taught undergraduate courses in forest product utilization and primary wood processing technologies, and advanced graduate courses in mechanics and physics of wood and wood composites.

R.C. was a member of the Society of Wood Science and Technology and of the Forest Products Society, and was a consultant for the State of Alabama to promote business with Taipei, Taiwan. He also authored numerous scientific papers and presented at several conferences around the world throughout his career, and was a respected expert in his field.

In lieu of flowers and given R.C's strong passion for forestry and wood products, his family requests donations to the Arbor Foundation (<http://www.arborday.org/join/tictim/index.cfm>) in his memory instead.

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BARRY GOODELL NAMED HEAD OF VIRGINIA TECH DEPARTMENT OF WOOD SCIENCE AND FOREST PRODUCTS

BLACKSBURG, Va., Jan. 21, 2011 –Barry Goodell has been named head of the [Department of Wood Science and Forest Products](#) in Virginia Tech’s [College of Natural Resources and Environment](#).

Goodell succeeds Audrey Zink-Sharp, who has served as interim department head since Paul Winistorfer became dean of the college in August 2009.

“Dr. Goodell brings a wealth of experience to the department,” Winistorfer said. “His knowledge of programs in the U.S. and abroad will clearly help us position the department for the future.”

“I’m excited to have Dr. Goodell join our college leadership team, as I’ve interacted professionally with him over the past 25 years,” Winistorfer continued. “He brings an open, inclusive leadership style with a keen sense of vision for the future. We are in good hands moving forward.”

Goodell will lead a department that is enormously diverse, with areas of research ranging from wood pallets and housing structures on one end of the spectrum to nanotechnology and drug deliverables on the other. The department has many points of service to Virginia citizens and industry, as well as the nation, with its industry-linked Extension and outreach programs.

“I am excited to be joining Virginia Tech to lead one of the most dynamic faculties in the field of wood science and forest products in the world,” Goodell remarked. “I look forward to continuing the fine work of my predecessors, Paul Winistorfer and Audrey Zink-Sharp, in helping to build the reputation of the department.”

The department focuses on the utilization of renewable materials and training the future generation of consumers, scientists, managers, leaders, and innovators. Its vision is to be the best place for student education and to lead the nation in discovery-oriented research and continuing education in renewable materials utilization.

Goodell has been a faculty member in the [University of Maine’s Wood Science and Technology program](#) in the School of Forest Resources since 1983. During his tenure as program director from 2003 to 2007, the program quadrupled its enrollment and added an undergraduate elective sequence in wood design and craftsmanship, one of the only of its type in the country.

His accomplishments at the University of Maine include co-founding the [Advanced Engineering Wood Composites Center](#), a world-class accredited facility for research on composites and bio-based composites, and serving as project director of the university’s Wood Utilization Research Center and national coordinator for the federally funded 13-state [Wood Utilization Research National Centers](#) program. He also served as head of the university’s Forest Products Laboratory, director of its Wood Sciences and Engineering Institute, and scientific coordinator for two Hatch-Multistate Research Programs.

Goodell is current president of the [Forest Products Society](#), an international organization representing all facets of the forest products industry. He received the society's prestigious Gottschalk Award, presented to individuals who have served the society with great distinction and dedication, in 2006. He has also served as an executive board member for both the Forest Products Society and the Society of Wood Science and Technology.

He has authored or co-authored over 100 refereed publications and holds multiple patents. He has significant research funding and grant experience, and has conducted research in the areas of bioconversion of wood/cellulosic materials for biofuels and the protection of wood and biomaterials, as well as on the development of nanoporous carbon and carbon nanotubes for energy storage applications.

Goodell received his bachelor's degree from the University of New Hampshire and his master's and doctoral degrees from Oregon State University.

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.

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SEEING THE HIDDEN SECRETS OF WOOD

Wood and biomass are now regarded as renewable resources that can partially alleviate reliance on petrochemicals for everyday needs and at the same time sequester carbon from the atmosphere to reduce atmospheric CO₂ levels. Forests and forest products play a major economic role in the world with global GDP topping US\$45 trillion in 2005 (1% of global GDP) and this is projected to reach US\$100 trillion by 2030.

Demand for wood and wood products has led to shortages of forest timbers in many countries. Plantation timbers are assuming a higher proportion of the world supply. The quality as much as the quantity is becoming more important. In current wood processing and manufacturing operations, knowledge of wood characteristics and the measurement of those characteristics are essential to ensure optimal utilisation. In order to accurately control the product quality before or during processing, there is a need to have a system which is capable of real-time monitoring of wood properties.

One emerging technology that could fill the gap for wood and wood processing measurements is near infrared (NIR) spectroscopy. It is already being widely utilised to assess the properties of wood and its products. And the most advanced applications for wood have been reported in 17 papers from around the world in a Special Issue of the *Journal of Near Infrared Spectroscopy* (*J. Near Infrared Spectrosc.* Volume 18 No. 6 (2010), http://www.impublications.com/nir/jtoc/18_6).

The advantages that NIR presents are numerous and include low cost per sample, more rapid analysis and the ability to operate in a number of in-field or on-line/at-line environments, hence leading to savings in laboratory cost, gains in product value and improved QC at the processing stage.

Collaborative research by university scientists at the Vienna University of Technology and BOKU University, using funds from the Austrian Science Fund, have investigated the degradation of Spruce wood by brown-rot fungi. This work has shown that the glucomannan sugars and the amorphous (non-crystalline) cellulose are most susceptible to degradation.

French researchers from CIRAD in France have teamed with researchers in Brazil to use NIR to determine the microfibril angle in Eucalyptus hardwood. The microfibril angle, which describes the orientation of the cellulose microfibrils in the wood cell wall, is important in understanding the strength and stiffness of wood. Traditionally the measurement of microfibril angle is a slow and labour-intensive analysis so in practical terms this development allows wood scientists rapidly to assess large numbers of trees, which is important in understanding the variation of microfibril angle in large breeding populations.

The generation of “global” applications for analysing wood from around the world is the topic of three papers from the USA and Australia, showing that there is considerable potential for NIR to be applied across the world’s forests with ease.

Not only are applications in forests discussed, but also for quality control of wood products, including solid wood, veneer and oriented-strand board. Again these applications come from around the world, including Japan and both North and South America.

In Australia and New Zealand there is considerable interest in being able to map the changes in wood properties within trees, thereby understanding how variation in wood properties can affect the end-product performance.

Guest editors for this special issue were Dr Roger Meder, once with the New Zealand Forest Research Institute and now with CSIRO Plant Industry Division in Brisbane, Australia; Dr Laurie Schimleck, formerly CSIRO Division of Forestry now at the University of Georgia, USA; and Dr Thanh Trung from FPInnovations-Paprican, Vancouver, BC, Canada.

“The findings just published have immediate application in forests and in wood and wood product production and processing plants across the world,” Dr Meder said.

For example, “The results clearly demonstrate that foresters can now identify individual trees in a breeding programme with wood of higher quality and at an early age in the life of a plantation,” Dr Schimleck stated. “This will lead to more productive forests and less wastage of timbers.”

The Guest Editors believe that the papers in this Special Issue of the *Journal of Near Infrared Spectroscopy* contain findings which will help convince more in the forest industry to utilise NIR spectroscopy into their tree and wood product assessment options.

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**JUNE
22
2011**

SWST 2011 INTERNATIONAL CONVENTION PORTLAND, OREGON, USA

In Cooperation with
Forest Products Society



Doubletree
Hotel
Portland

1000
NE Multnomah
Street

Sisters/
Bachelor Room

Challenges and Opportunities in Wood Science Education

8:00–8:50 a.m.

Registration and Coffee

8:50–9:00 a.m.

Welcome and Session Overview

Todd Shupe, SWST President-Elect & Session Moderator

9:00–9:30 a.m.

**North American Wood Science Programs—
History and Trends**

*Jim Armstrong and H. Michael Barnes
West Virginia University and Mississippi State University
Morgantown, WV (USA), Starkville, MS (USA)*

9:30–10:00 a.m.

European Wood Science Educational Programs

*Marius C. Barbu, Transilvania University Brasov
(Romania), Hamburg University (Germany)*

10:00–10:30 a.m.

**Wood Science Educational Programs—
The South American Approach**

Cecilia Bustos, Universidad del Bio-Bio (Chile)

10:30–11:00 a.m.

Wood Science Educational Programs in China

Han Guanping, Northeast Forestry University (China)

11:00–11:45 a.m.

Awards Program

11:45 a.m.–12:45 p.m.

Business Meeting and Lunch

12:45–1:00 p.m.

Break

1:00–1:30 p.m.

New Accreditation Standards for a Bio World

Bob Rice, University of Maine, Orono, ME (USA)

1:30–2:00 p.m.

**Onward and Upward!—Recruiting and Retention
Ideas from a National Workshop**

*Rubin Shmulsky, Shane Kitchens, and H. Michael Barnes
Mississippi State University, Starkville, MS (USA)*

2:00–2:30 p.m.

**Rebranding a Wood Science & Technology
Degree Program**

*Tom McLain, Oregon State University,
Corvallis, OR (USA)*

2:30–3:00 p.m.

**Students, Universities, and Industry: Suggestions
for Meeting Each Others Needs**

Roy Anderson, The Beck Group, Portland, OR (USA)

3:00–3:30 p.m.

**Wants and Needs of Wood Science Education—
An Industry Perspective**

Randy Clark, JELD-WEN, Klamath Falls, OR (USA)

3:30–4:00 p.m.

Grass Roots Student Recruiting

*Nate Irby, North Carolina State University,
Raleigh, NC (USA)*

4:00–6:00 p.m.

**Student Poster Competition and General
Poster Session**

Located in Exhibit Hall





In Cooperation with
Forest Products Society



SWST 2011 INTERNATIONAL CONVENTION PORTLAND, OREGON, USA



JUNE
22
2011

Registration Form

Name: _____

Name for Name Badge: _____

Company: _____

Address: _____

City: _____ State/Province: _____

Country: _____ Zip: _____

Telephone: () _____

Fax: () _____

Email: _____

Registration Costs*

Before May 15

Attendees: \$150

Students, Retired, Emerging Countries: \$50

Exhibit Forum Participant: \$300
(for table and one individual registration)

**Includes coffee break, lunch, and poster reception*

Webinar Participant: \$75

After May 15

Attendees: \$175

Students, Retired, Emerging Countries: \$75

Exhibit Forum Participant: \$325
(for table and one individual registration)

Webinar Participant: \$75

Credit Card #: _____ (VISA or MasterCard only)

Expiration Date: _____

Signature: _____

OR

Please make check payable to: Society of Wood Science and Technology

Hotel

Doubletree Hotel Portland

1000 NE Multnomah Street, Portland, Oregon, United States 97232

Tel: 1-503-281-6111 Fax: 1-503-284-8553

A block of rooms has been reserved at the Doubletree Hotel Portland at a special group rate of \$145 + tax for Standard guestrooms or \$165 + tax for Premium guestrooms. The room block will be held through Thursday, May 26, 2011. After May 26, remaining rooms in the block will be released for sale to the general public, and attendees cannot be guaranteed the group rate or room availability after this date. A deposit of first night's room revenue + tax is required with all reservation requests. The deposit will be forfeited for all no-shows and for all reservations cancelled within 72 hours prior to arrival. In order to receive the group rate, be sure to mention you are with the Forest Products Society Group. Phone reservations to 1-800-996-0510 or 503-281-6111 or online at http://doubletree.hilton.com/en/dt/groups/personalized/R/RLLC-DT-FPS-20110617/index.jhtml?WT.mc_id=POG

Mention Group Code: FPS

Return by May 15, 2011, to:

Vicki Herian, Executive Director

Society of Wood Science and Technology

P.O. Box 6155

Monona, WI 53716-6155

Phone: 608-577-1342 • Fax: 608-467-8979 • Email: vicki@swst.org

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International Scientific Conference on Hardwood Processing

October 16-18, 2011 Virginia Tech, Blacksburg, VA, USA

CALL FOR ABSTRACTS

ISCHP³11 will bring industry professionals, scientists, association representatives, government employees, suppliers, and customers together to share knowledge, ideas, and to network. The conference will cover hardwood related issues from the source to the customer, discuss recent developments, and show paths into the future. ISCHP³11 will have a special focus on sustainability and certification and help to further promote the important role of the world's leading renewable, carbon-absorbing raw material.

We are inviting presentations, papers (peer and non-peer reviewed), posters, and commercial exhibits for this International Hardwood Conference in the following areas:

- Forestry practices and hardwood quality
- Supply chain management
- Hardwood processing and optimization
- Markets, trade, and business insights
- Certification and sustainability
- Hardwood innovations of the future

Submission of Abstracts and Important Dates

There is a 250-word limit for abstracts. Deadlines are:

- Mar. 31, 2011 Peer-reviewed paper and presentation abstracts submission deadline (submit to: ischp2011.review@gmail.com)
- June 30, 2011 Non-peer reviewed paper and presentation abstract submission deadline (submit to: ischp2011.noreview@gmail.com)
- Aug. 16, 2011 Presentation (without a paper) abstract submission deadline (submit to: ischp2011.nopaper@gmail.com)
- Aug. 16, 2011 Poster abstract submission deadline (submit to ischp2011.poster@gmail.com)
- Sep. 16, 2011 Registration deadline for at least one author per contribution to have paper included in proceedings or presentation and poster accepted
- Oct. 14, 2011 Final presentation (.ppt or .pptx) uploaded to web (See website for updates)

For all abstract submissions, please put "ISCHP2011-author's last name" in the subject of your email, and include the following required information in the **body** of the email (no attachments accepted):

- 1) Type of submission (peer-reviewed paper and presentation, non-peer reviewed paper and presentation, presentation, or poster)
- 2) Title of submission
- 3) Author(s) and their affiliation(s)
- 4) Corresponding author's mailing address, telephone number, and email address, and
- 5) Abstract (**250 words or less**).

Publication

The proceedings will be published as an electronic file (pdf) and handed out at the conference. Upon special request and for an additional fee (\$75), printed copies of the proceedings will be made available. The proceedings will contain refereed and non-refereed papers from all authors and abstracts from author(s) presenting posters.

Contact

Urs Buehlmann
Virginia Tech
Department of Wood Science and Forest Products
Phone: 540-231-9579
Email: ischp2011@gmail.com

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International Wood Composite Symposium: Joint International Symposium on Wood Composites and Veneer Processing and Products

When: April 5-7, 2011

Where: Bell Harbor International Conference Center & The Edgewater Hotel, Seattle, Washington

This joint industry-driven conference represents a combination of Washington State University's longstanding International Wood Composite Symposium along with the biannual International Symposium on Veneer Processing and Products. The Symposium is organized by WSU Composite Materials & Engineering Center, APA-The Engineered Wood Association, and FPInnovations.

[View the symposium sponsors.](#)

AGENDA OVERVIEW

Tuesday, April 5

Keynote Session and Welcome Reception

Wednesday, April 6

Concurrent sessions on Products and Processing

Technical Forum Poster Session and Reception

Thursday, April 7

Sustainability, Environmental Issues and Regulations Session

Adhesives Session

Friday, April 8 (optional)

Tour to APA or visit FPInnovations

[View the complete program schedule](#)

[Register Now](#)

CALL for Posters: [Submit poster abstracts](#) by February 28, 2011.

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[Be A Sponsor](#)

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AMERICAN WOOD PROTECTION ASSOCIATION

2010-2011 Executive Committee:

Richard L. Zibus, *Chair*
Edward D. Williams, Jr., *Vice Chair*
Bessie M. Woodward, *Past President*
William Abbott
Roger A. Babb
Chris Barber
James D. Hickman
Michael Johnson
Pascal Kamdem
Kenneth R. Laughlin
Susan Thomason



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100 Chase Park South Suite 116
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Facsimile: 205-733-1075

Mailing Address:
PO Box 361784
Birmingham, AL 35236-1784

E-mail: email@awpa.com
Website: www.awpa.com

2010-2011 Officers:

Richard J. Zibus, *President*
Edward D. Williams, Jr. *First Vice President*
Kenneth R. Laughlin *Second Vice President*
Chris Barber *Third Vice President*
Nancy Deweese *Treasurer*
Colin McCown *Executive VP & Secretary*

SCHOLARSHIP OPPORTUNITY - STUDENT POSTER COMPETITION

November 2010

To all Academic Institutions with Interest in Wood Protection:

The American Wood Protection Association (AWPA) is announcing a poster competition for students in which \$1,200 USD will be awarded to the best two posters (\$800 for the winner, and \$400 for the runner-up). The 2011 AWPA Scholarship is named in memory of Mrs. Mary L. Hall, AWPA's Administrator from 1991 to 2003. The posters will be judged at AWPA's 107th Annual Meeting in Fort Lauderdale, Florida on Monday, 16 May 2011. Rules and deadlines are as follows:

- Posters must be related to the field of wood protection.
- The deadline for entry is 14 January 2011. A preliminary title and list of authors for each poster must be submitted at this time.
- Final title, list of authors, and brief abstract (200 words or less) must be received by AWPA on or before 18 March 2011.
- Posters must be printed on a single sheet of paper measuring not more than 48 inches in height and 96 inches in width. Free-standing mounting boards will be provided by AWPA.
- Poster authors are not required to be present at the meeting, but attendance is encouraged.
- If authors or their representative(s) cannot attend, posters must be shipped to AWPA on or before 29 April 2011. All late posters are subject to disqualification.
- Any posters not picked up by the end of the conference will be discarded.
- The posters will be judged by a panel of four qualified AWPA members primarily on the basis of relevance, scientific rigor, and clarity of presentation.

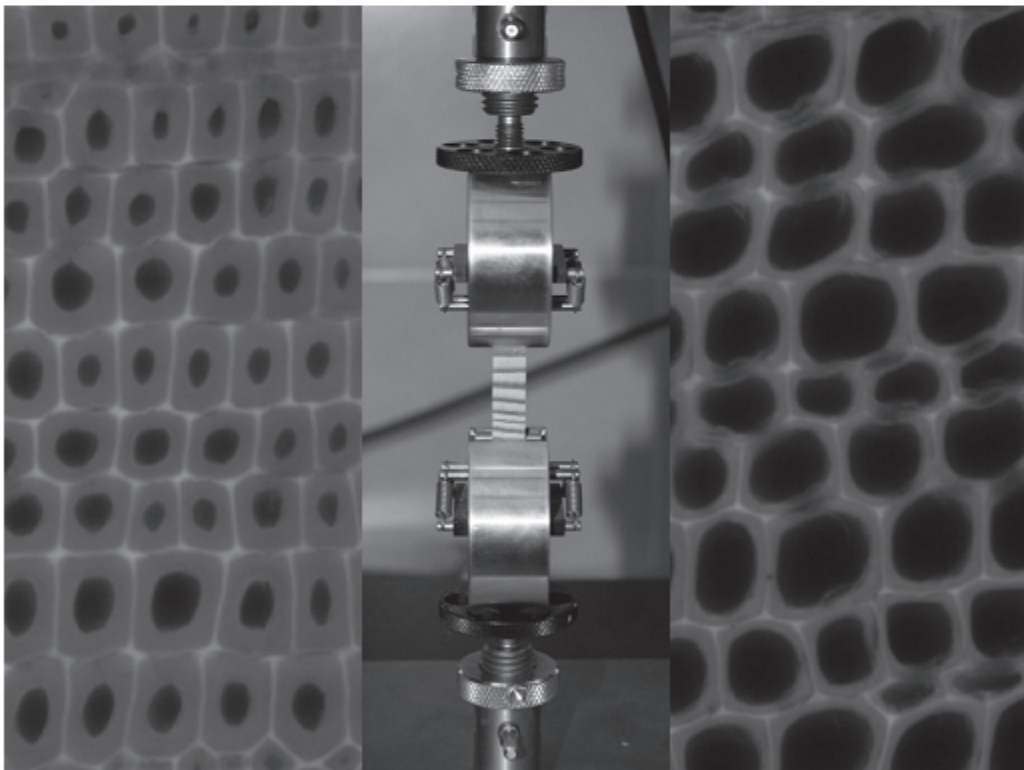
Please thoughtfully consider participating in this event. If you have any questions or need additional information, please contact Colin McCown at AWPA using the information in the letterhead above.

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Thematic workshop

Mixed numerical and experimental methods applied to the mechanical characterization of bio-based materials

April 27-28, 2011
Vila Real, Portugal



COST is supported by
the EU RTD Framework Programme

ESF provides the COST Office
through an EC contract

EUROPEAN
SCIENCE
FOUNDATION

Workshop Chairmen

José MORAIS

José XAVIER

João PEREIRA

CITAB/University of Trás-os-Montes e Alto Douro, Portugal

Advisory Committee

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Action Chair

Vienna University of Technology, Austria

Lennart SALMÉN

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WG1 Leader

University of Copenhagen, Denmark

Michaela EDER

WG2 Leader

MPI of Colloids and Interfaces, Germany

Kristofer GAMSTEDT

WG3 Leader

KTH - Royal Institute of Technology, Sweden

Workshop Office

Lígia PINTO

Centre for Research and Technology of Agro-Environmental and Biological Sciences - CITAB

University of Trás-os-Montes e Alto Douro

Quinta de Prados, Apartado 1013

5001-801 Vila Real, Portugal

Tel.: +351 259 350 475

Fax: +351 259 350 629

Email: citab@utad.pt

web: <http://www.citab.utad.pt/>

Call for Papers

Authors are kindly invited to submit an abstract related to the topics of the workshop by February 11, 2011. The Abstract Submission Form will be available on the Action's website.

Scientific Programme

The scientific programme will comprise

- oral presentations (20 min. incl. discussion) and
- poster presentations (3 min.).

There are no parallel sessions.

Programme at a glance

Wednesday, April 27:

09:00-18:00 Workshop

20:00 Dinner

Thursday, April 28:

09:00-18:00 Workshop

Workshop Venue

The workshop will be held in the Geosciences building of the UTAD, which is located in Vila Real, a city in the north of Portugal, about 100 km from the Oporto airport.

Accommodation

A sufficient number of hotel rooms will be reserved in the vicinity of the workshop venue. Details will be available soon in the Registration Form and on the Action's website (<http://COST-FP0802.tuwien.ac.at>). Participants are asked to make their hotel reservation directly with the hotel by referring to "COST".

Registration

Deadline for registration is March 11, 2011. Participants will be asked for a fee of € 70 covering costs for lunches, conference dinner, coffee breaks and abstract booklet. Please use the Registration Form which will be also available on the Action's website.

Important Dates

Abstract submission deadline	February 11, 2011
Notification of acceptance	before March 11, 2011
Registration deadline	March 11, 2011
Workshop dates	April 27-28, 2011

Supporting Organisations

COST - European Cooperation in the field of Scientific and Technical Research

CITAB – Centre for Research and Technology of Agro-Environmental and Biological Sciences



UTAD – University of Trás-os-Montes e Alto Douro

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Conference Theme

Formerly known as TAPPI's International Conference on Nanotechnology for the Forest Products Industry, the title of this annual conference has been changed to reflect advances in nanotechnology in renewable materials and their widespread applications in many other industries. To fully embrace all nano-enabled biomaterials, the conference technical focus has been expanded to include other nanomaterials along with cellulose.

CALL FOR PRESENTATIONS/POSTERS DEADLINE EXTENDED TO JANUARY 28, 2011!

The 2011 Technical Program Committee invites contributions from participants working in research, development and deployment of renewable nanomaterials. Abstracts that focus on new and novel uses are highly encouraged. Analysis of challenges and trends in emerging markets for renewable nanomaterials are sought to provide a foundation for new research and industrial activities. The organizers also encourage submissions on other aspects of nanotech products including law, policy, economics and environmental health and safety.

Nanocellulosics and Nanocomposites

- Nanocellulosics and nanostructured materials
- Separation processes for nanocellulosics
- Nano-reinforced films, fibers, and foams
- Bio-derived matrix polymers for sustainable nanocomposites
- Processing of nanocomposites
- Characterization techniques
- Computer and Hierarchical modeling

Applications of Renewable Nanomaterials in

- Biomedical
- Printing inks
- Smart materials
- Sensing technologies
- Molded composite structures
- Biofuels, Paper, Paperboard and Wood products
- Electronics
- Structural application
- Transportation

Nanostructured materials by self assembly

- Nano manufacture & self-assembly
- Photonic bandgap pigments for special optical effects in forest products
- Nanoporous materials for controlled delivery of actives, immobilization of sensor liquids
- Biomimetics

Nanotech coatings and novel nano-enabled functionalities

- Surface modification and functionalization
- Wear and scratch resistant coatings
- Novel optical effects
- High modulus paper coatings
- Novel Piezoelectric effects

Governmental & Environmental Issues

- Consumer perception
- Policy issues
- Environmental impacts
- Health & Safety issues
- Ethical, legal and social implications
- Sustainability analysis
- Defense applications

MEETING PROGRAM CHAIRS:

Sean Ireland, Verso Paper Corp., World Nieh, USDA Forest Service, and Theodore Wegner, USDA Forest Service

ABSTRACT SUBMITTAL

Submit title and 300 word or less abstracts via [TAPPI's Speaker Management System](#). Due by January 28, 2011. Extended abstracts or papers due March 7, 2011. Requirements for extended abstracts: 2 pages, single spaced, in a Word format. Papers need to be single spaced, also in a Word format.

See www.tappinano.org for more information. *Reduced conference rate available for speakers.*

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Call for papers: Novel materials from wood or cellulose

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

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

Call for Papers

The programme is open for presentation suggestions. Please send your abstract by e-mail to [Helena Odenstig](mailto:Helena.Odenstig@innventia.com), Innventia, to be received **no later than April 4, 2011**.
[Download template for abstract.](#)



Time: 31 August -
2 September 2011

Place: Stockholm, Sweden

[Download printable folder](#)
[»](#)

Contact and Information:
All registration and payment matters:

MCI Scandinavia
[Send email](#)
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

Key note speakers

- Prof. Hiroyuki Yano “Potential of cellulose nanofiber materials”
- Prof. George Jeronimidis “Natural cellulose-based hierarchies: concepts for novel materials and added functionality”
- Prof. Maija Tenkanen “Potential of enzymes in the biorefining of hemicelluloses to value-added materials”
- Prof. Philip Evans “Wood surface photostabilisation and coating performance”
- Prof. Antonio Pizzi “Wood Welding and its applications in building and furniture”

Venue

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

Evening Events

On August 31, 2011, the City of Stockholm and Stockholm County Council invite the conference participants to a buffet at the Stockholm City Hall, beautifully situated on the waterfront of Riddarfjärden in central Stockholm. The City Hall is famous for the yearly Nobel Prize festivities.

A conference dinner will be arranged September 1, 2011 in the Stockholm archipelago.

Warmly welcome!

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Rethink Papermaking at PaperCon 2011

At [PaperCon 2011](#), learn new ways to decrease cost, use less fiber and reduce a mill's carbon footprint. This year's [Papermakers Program](#) has a special emphasis on short presentations highlighting mills with world-class performance in terms of uptime, decrease of energy use and other key performance indicators, and offers an introduction to lean, six sigma concepts.

New this year:

- [Tissue Forum](#)
- [Young Professionals Sessions](#)
- Success Stories Mill Presentations
- Cost-Reducing Additives Workshop

PaperCon also includes:

- [Keynote address by John D. Williams, President and CEO of Domtar](#)
- [Executive Panel](#)
- [Sustainability Forum](#)
- [Maintenance Workshop](#)
- [PaperCon Trade Fair](#)

[PaperCon 2011](#)

May 1-4, 2011 in Covington, Kentucky
(Greater Cincinnati area)

[Registration is now open.](#)

Sponsorships and Exhibit Space is still available. For more information, contact [Shane Holt](#) at +1.352.333.3345.

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Registration

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DOCTORAL OR MASTERS STUDENT RECRUITMENT



Doctoral or Masters Student Recruitment

**Gilbert Foundation Scholarship
School of Renewable Natural Resources
Forest Products Marketing & Business Development
Louisiana State University**

For Fall 2011, The Louisiana Forest Products Development Center at Louisiana State University is soliciting applications for the prestigious Gilbert Foundation Scholarship. Both M.S. (\$20,000/year for 2 years) and Ph.D. (\$25,000/year for 4 years) degree candidates are encouraged to apply.

In keeping with the intent of the Foundation goals, recipients must have academic credentials that place them in the upper 5 % of applicants to the graduate program in the School of Renewable Natural Resources. Eligibility will be based on the evaluation of the grade point averages, performance on the Graduate Record Examination (verbal, quantitative, and written), letters of reference, and other tangible evidence of eligibility. The minimum qualifications for MS eligibility are an earned cumulative GPA of at least 3.00 with a 3.25 for the last 60-64 hours of work towards their undergraduate degree based on 4.00.

For the Ph.D. program, the minimum requirements include a cumulative GPA of 3.6 during the pursuit of their MS, but 3.75 if undergraduate GPAs are below the 3.00 and 3.25 GPA standards. Scores on the GRE should be at least 1200 (V + Q) with each section above 500 and a writing score of 4 or greater. Performance on the GRE will be evaluated in combination with GPA, letters of reference, and other evidence of the applicant's potential success in pursuing a graduate degree and representation of the Gilbert Foundation ideals.

Recipients are entitled to a **scholarship covering student fees. The Graduate School pays tuition and gives an allowance for medical insurance.** The recipient has a 20 hr/wk work commitment and is covered by workman's compensation insurance. We can evaluate candidates contingent on acceptance by the Graduate School. Applications are done on-line. Information can be found at: the Louisiana State University Graduate School Home Page.

<http://gradlsu.gs.lsu.edu/Prospective%20Students/item12197.html>

The Forest Products and Business Development Program offers a multi-disciplinary approach that provides students an opportunity to develop practical skills and academic depth in a variety of areas of specialization such as promotion & branding, eBusiness, certification, wood-based biofuels-bioprocessing, and forest-based economic development/policy. The research area will depend on the interests of the successful candidate.

In addition to the on-line application process, please email me a letter of intent and interest, unofficial transcripts, resume, GRE scores (when you have them) and TOEFL score (if applicable) to vlosky@lsu.edu. Other contact information: Dr. Richard Vlosky, Director, Louisiana Forest Products Development Center: Phone: (225) 578-4527; Fax (225) 578-4251, Address: Room 227, School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA 70803.

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PhD student Positions in Wood Products Engineering (WPE)

Wood products engineering comprises research and development of wood products in an empirical, verified model world in which the end-user's products requirements are integrated with material properties and manufacturing processes.

LTU Wood Science and Technology currently conducts world-leading research, development and implementation of the innovation system: forest to sawmill products. The research topic WPE connect to it and lead the technical development of wood industry value-chain processes further to end customers.

The topic includes research in a virtual wood-value-chain to develop integrated wood industry processes. Our goal is to develop a Real-Virtual-Reality concept that is working in the industrial context, based on real multi-dimensional data.

Based on the expertise in the fields of, wood-metrics, multi-dimensional process modeling / simulation and visualization of industrial processes, the following tasks is performed:

Modeling and Simulations

Models created from image-based measurement information in real-time perspectives gathered from research and industrial applications.

Optimization of Virtual Environments

Develop models for serious gaming, industrial systems and R & D applications for wood industrial processes.

PhD Student Position 1 Will be working in a project which aims to develop:

- Measurement technology for the wood industry
- Current models to include end-user products and functional needs.
- CAE tools in a virtual wood value chain

PhD Student Position 2 Development of tools for product and process development based on:

- Modeling and Simulations based on multi-dimensional measurement information with real-time perspectives gathered from research and industrial applications.
- Optimization of Virtual Environments. In collaboration with other research areas develop serious gaming, industrial systems and R & D applications for wood industrial processes.

Qualifications

We seek candidates with an MSc/civ.ing. Degree in Wood technology, Engineering Physics or Engineering Mechanics. Moreover, it is important that you can work well in groups and express yourself well in written English.

Experience in the wood industry, virtual visualization of actual events and industrial image processing is an advantage.

We strive to have a gender balance in our group. We also strive to increase diversity in our group we look positively to applicants from minority groups.

For further information contact Professor Olle Hagman, phone +46 (0)910-58 53 10, +46 (0)70-275 36 54, E-mail: Olle.Hagman@ltu.se

Application

The application, containing CV and references should be sent to Luleå University of Technology, The Registry secretary, SE-971 87 LULEÅ, or registrator@ltu.se The application should be marked with ref no 2717-10

Deadline for application: February 28

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>

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

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