

The Newsletter
of
The Society of Wood Science and
Technology
•May-June-July 2011•

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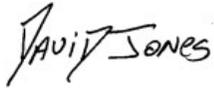
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From the Editor

I purposefully postponed the May-June Newsletter so that information about the 54th annual International Conference could be included in the newsletter. Also in this edition of the newsletter is a copy of a white paper discussing the Ecological Footprint concept and the role of wood products in it. This white paper was prepared by the Policy and Critical Issues Committee.

I hope that you all are having a great Summer, or Winter depending on what Hemisphere you live in.

Cheers,



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Passing of John Hamilton, PhD.

John R. Hamilton, PhD, 86, of Park Hills, Morgantown, passed away on Monday, May 9, 2011, at Ruby Memorial Hospital surrounded by family.

He enjoyed woodworking, gardening and early American tool collecting but his real passion was for his family, and he cherished the relationship he had with his wife, children and spouses, and grandchildren.

John was born April 22, 1925, in Atlanta, GA, the son of the late Joseph Starke and Lady Grace Rowlett Hamilton. John attended Boys High in Atlanta, GA and served in the U.S. Navy during World War II in the Pacific Theatre.

He earned his BS Degree and Masters Degree from the University of GA and his PhD from NC State University. John taught at the University of GA prior to moving to Morgantown in 1964. He was a Professor in the Division of Forestry at WVU for 23 years before retiring in 1987.

He is survived by his loving family which includes his wife of 64 years, Mary Jane Hamilton, a son, David Starke Hamilton and wife, Laurie, of Mechanicsburg, PA, a daughter, Celia Jane Reed and husband, Michael, of Atlanta, GA, his four grandchildren, Karen and Brian Hamilton of Mechanicsburg, PA, Joshua and Jessica Reed of Atlanta, GA, and two step grandchildren, Kimberly Mahoney and Michael James of Mechanicsburg, PA.

In addition to his parents, he was preceded in death by his brother, Joseph Starke Hamilton, Jr.

In lieu of flowers, memorial donations may be made in John's memory to the Hamilton Family Award, a scholarship for a Wood Science student. Checks should be made payable to and mailed to the WVU Division of Forestry, PO Box 6125, Morgantown, WV 26506. Note on check Hamilton Family Award.

On-line condolences may be sent to www.hastingsfuneralhome.com

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RNRF Roundtable with Cristián Samper, Director of the Smithsonian's National Museum of Natural History on June 16, 2011

The Renewable Natural Resource Foundation (RNRF) held one of its Washington Round Tables on Public Policy with Cristián Samper, Director of the Smithsonian Institution's National Museum of Natural History (NMNH) in Washington, DC; which hosts seven million visitors a year and holds a collection of 126 million specimens and artifacts. The Smithsonian is in a unique position among Federal agencies because 75% of funding comes from Federal appropriations and 25% from private sources. This financial distribution affords the Smithsonian more flexibility in programs than most government agencies.

Dr. Samper emphasized the challenges of maintaining excellent research, while collaborating with the scientific community to advance public knowledge and understanding. Among some of these challenges highlighted were: 1) managing the demographic changes that are affecting the museum's workforce, 2) managing the safety and storage of the museum's many collections, 3) digitizing the collections, 4) designing and using better electronic public outreach, 5) participating in development of the Encyclopedia of Life, and 6) assisting in saving the world's endangered languages. For more information about resources and activities of NMNH go to <http://www.mnh.si.edu/about.html>.

Howard N Rosen

Howard N. Rosen
SWST RNRF Representative



**(L-R) Seated: Cristián Samper (Smithsonian), Craig Schiffries (Geological Soc. of America), Sarah Gerould (Soc. of Environmental Toxicology and Chemistry)
Standing: Robert Day (RNRF), Howard Rosen (SWST), Casey Dinges (American Soc. of Civil Engineers), Marty Spitzer (US World Wildlife Fund), Nancy Somerville (American Soc. of Landscape Architects)**

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Society of Wood Science and Technology (SWST) White Paper On
The role of wood products in the Ecological Footprint concept

A White Paper Submitted by the Policy and Critical Issues Committee – June 2011

The Issue

The Ecological Footprint concept is a way of evaluating consumption. Consumption of the full range of biological resources is converted to a measure of the land and water surface area required to support that consumption, and for the disposal of wastes. Consuming forest products contributes to our ecological footprint. However, because wood products are relatively efficient in terms of fossil-fuel use, their substitution for building materials such as concrete and steel results in a net reduction in ecological and carbon footprints. The use of sustainable wood products in place of more resource-intensive alternatives should be encouraged.

Background

In the early 1990s, Mathis Wackernagel developed a method for describing consumption of bio-resources in terms of the area of earth's surface required to support that consumption. Initially dubbed "appropriated carrying capacity," the concept was later described "Ecological Footprint."¹ The calculation of Ecological Footprint involves conversion of all the biological materials consumed and all of the biological wastes generated annually per capita into an equivalent number of "global hectares" A global hectare is "a common unit that encompasses the average productivity of all the biologically productive land and sea area in the world in a given year. Biologically productive areas include cropland, forest and fishing grounds, but do not include deserts, glaciers, and the open ocean."²

For example, per capita consumption of a physical resource (such as timber) is converted to an equivalent surface area (hectares) by dividing the yield of the specific land area from which that physical resource is harvested. This number is then converted into global hectares using yield and equivalence factors. A summation of the number of global hectares associated with the full suite of bio-resources yields the Ecological Footprint. The Ecological Footprint of a city, province, or nation is determined by multiplying the per capita footprint for residents of that geographic area by population.

There is a carbon component to the Ecological Footprint. The term "carbon footprint" refers to a subset of the ecological footprint and is a measure of the biological capacity, measured as the number of global hectares required to process human emissions of fossil carbon dioxide. "Carbon footprint" is used also simply to describe the amount of carbon dioxide, or its equivalent of other GHGs, emitted by a person, product or process.

Comparisons of Ecological Footprint values with biocapacity measures tend to show that high-consuming nations are living beyond their ability to support that consumption. A primary explanation for the very large Ecological Footprint of people in developed countries is high energy consumption from non-renewable sources (a large carbon source), and the related function of biological resources as a carbon sink.

Considering Raw Materials in the Context of the Ecological Footprint

In comparison to other countries, wood is more commonly used in home construction in the United

¹ Wackernagel, M and W Rees. 1996. Our ecological footprint. New Society Publishers. ISBN 1-55092-250-5

² <http://www.footprintnetwork.org/en/index.php/GFN/>

States. It may be tempting to conclude that reducing this wood use would reduce the Ecological Footprint. It would - if nothing else were used in the place of wood; however, it is likely that if steel or concrete were used in place of wood, the Ecological Footprint would actually increase.

Consider, for instance, whether lower wood consumption in European construction results in a smaller Ecological Footprint. Wood is used to a lesser extent in building houses in most of the E.U. countries compared to the U.S., but the use of non-wood substitutes (steel and cement) is higher. Life cycle analyses (LCA) have consistently shown that wood products have a favorable environmental profile compared with the available alternatives. For example, house construction that substitutes of concrete (or steel) for wood products results in substantial increases in fossil fuel consumption and greater net emissions of carbon dioxide³.

So, while reduction of overall per capita consumption will reduce the magnitude of the Ecological Footprint, care must be taken in making conclusions about specific resources based on Footprint measurements. Minimizing wood use to reduce a Carbon or Ecological Footprint could be counterproductive. Further research is required to quantify the precise impacts of various product substitution scenarios on the Ecological Footprint.

A Suggestion for Action: Promote the *Substitution Advantage* of wood

Assessment of environmental impact is an increasingly important and popular subject among policymakers, students and consumers. Simplified measurement criteria, e.g. Footprint calculations, are useful for some applications. However, more holistic judgments about options needs to be promoted, especially in discussions that involve choices between natural and non-renewable resources. With this in mind, it may be beneficial to present the advantages of *substitution* of wood products for non-wood alternatives a recurring theme in educational efforts and policy advice.

Summary

Tools such as the Ecological Footprint provide ways to measure environmental impact and the sustainability of resources consumption. However, it is important to engage in holistic thinking about the potential tradeoffs when considering consumption of a single resource such as forest products. Policies that are intended to reduce resource consumption must consider potential substitution effects. Because wood products are relatively resource efficient, they are generally preferable to non-renewable substitute materials.

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³ Consortium on Research on Renewable Industrial Materials (CORRIM). 2004. Life Cycle Environmental Performance of Renewable Building Materials in the context of Residential Construction. Phase 1 Final Report. <http://www.corrim.org/pubs/reports/2005/Phase1/index.asp>. Accessed 12-13-2010

SWST 54th International Conference

On June 22nd, 2011 the Society of Wood Science and Technology held its annual international conference, this year the theme was Challenges and Opportunities in Wood Science Education. There were presenters from both academia and industry discussing the challenges we face in maintaining a viable industry through educating students and getting them into the workforce. Topics included re-branding of degree programs, recruiting, and the industry's perspective. Copies of most of the talks can be found here:

<http://www.swst.org/meetings/AM11/index.html>



Rich Vlosky elected to CORRIM board

Dr. Richard Vlosky, Director, Louisiana Forest Products Development Center, LSU Agricultural Center, and Crosby Land and Resources Endowed Professor of Forest Sector Business Development, was elected to the Board of Directors of the Consortium for Research on Renewable Industrial Materials (CORRIM) based at the University of Washington. CORRIM seeks to establish, support, and manage research and education programs relating to renewable industrial materials focused on the [Back](#)

First Wilhelm Klauditz Fellowship awarded to Professor Frederick A. Kamke

The first Wilhelm Klauditz Fellowship, awarded by the Fraunhofer Institute for Wood Research in Braunschweig, goes to Dr. Frederick Kamke, who is JELD-WEN Professor of Wood-Based Composite Science in the Department of Wood Science and Engineering at Oregon State University in Corvallis, Oregon, USA.

Professor Kamke's research specialization is heat and mass transfer in wood and wood-based products. Here the emphasis is on questions of adhesion as also modeling and the manufacture and performance of wood-based products.

This outstanding scientist is the author of more than 200 scientific publications and presentations. As JELD-WEN Professor, Dr. Kamke is responsible for publicly funded, non-university research projects with a total funding of around US\$ 9 million.

Professor Kamke is a Fellow in the International Academy of Wood Science and has served as president of the Society for Wood Science and Technology.

He has taught courses in the physical and mechanical properties of wood, wood anatomy, the manufacture of wood-based composites, wood drying, the durability of wood products and the adhesion of wood. He also regularly teaches short courses for the wood-based composites industry, for which he also acts as a consultant.

Kamke's research work as WK Fellow at the Fraunhofer WKI aims at improving the durability of wood-based panels in building applications. Multiscalar methods of computational modeling are combined with weathering experiments to enable a better assessment of the development of new products.

The Wilhelm Klauditz Fellowship is awarded annually in the field of applied wood research. The Fraunhofer WKI funds top-ranking scientists who work on projects aimed at developing innovative natural materials.

An overview of Kamke's publications and of his career may be found at www.wki.fraunhofer.de



Fig. 1: The first Wilhelm Klauditz Fellow, Professor Dr. Fred Kamke. [Back](#)



PHD THESIS AWARD

The International Academy of Wood Science is a non-profit assembly of elected wood scientists, recognizing all fields of wood science with their associated technological domains.

IAWS wishes to provide recognition to outstanding wood science thesis/dissertation research at the PhD level by students throughout the world. *The competition is limited to students receiving their degrees in other than their native country.* The purpose is to foster and recognize cross-national interaction.

1. The submission shall be no more than 2 pages of an extended abstract (in English) of the thesis/dissertation and a one-page CV of the student. The submission can be by the student and/or the student's advisor.
2. The thesis/dissertation must have been completed within the period of **26 April 2010—26 April 2011**. The documentation shall be sent by email to the Chair of the IAWS Board, George Jeronimidis (g.jeronimidis@reading.ac.uk).
3. The deadline for receipt of the submission is 30 September.
4. Judging of the submissions shall be done by the IAWS Board, which will make recommendations to the Executive Committee for the final decisions.
5. Up to three annual awards may be given and will be designated as gold, silver, and bronze for first, second, and third places, respectively. The winners will receive appropriate medals and certificates to commemorate their awards, and the results will be published in the IAWS Bulletin and on the IAWS web page.
6. The gold medal winner will be invited to attend an IAWS meeting and present his/her work. IAWS will provide up to \$US1000 to cover the expenses of the travel and attendance.

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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



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

REDISCOVERING WOOD: THE KEY TO A SUSTAINABLE FUTURE

The International Conference and Exhibition on the Art and Joy of Wood Bangalore, India, 19-22 October 2011

In collaboration with the Government of India, the Food and Agricultural Organization of the United Nations (FAO) will be holding an international conference about wood products and sustainable development. Registration for the conference and exhibition is progressing now.

The overall aim of the conference is to examine how the production and use of wood products can contribute to sustainable development and how greater demands for sustainability might present new opportunities for development of the wood products sector. Within this general direction, three themes are proposed for the conference:

- * **Emerging trends in economies and lifestyles:** what are the main trends affecting wood use and how can these be utilised to strengthen the forest products sector?
- * **Stories portraying the winds of change:** case studies showing how some wood producers and users have already developed strategies or innovated to build successful enterprises based on changing consumer demands and needs.
- * **Wooden paths to a sustainable future:** how can the linkages between wood use and sustainable development be strengthened and used to promote more and higher-value wood use?

Given that the economic and environmental dimensions of wood product use have been discussed many times before (e.g. at technical and marketing conferences, green building events, etc.), an aim of this conference is to focus, in particular, on the socio-economic, aesthetic and cultural dimensions of wood use (what the organizers define as "the art and joy of wood"). Papers on other aspects of wood product development will also be considered; if they fit within one of the themes described above (focus will be on solid wood products rather than paper or non-wood forest products).

The conference will last for three days with an optional field trip on the fourth day. It will be held in the J N Tata Auditorium complex at the Indian Institute of Science in Bangalore, India. The expected level of participation is about 350 people. There will also be a commercial exhibition and a handicraft market where 55 exhibitors are expected (open to the public). Diverse social and cultural programmes are also planned (artisans exhibitions, photo and non-technical poster competition, "music from wood" concert, field trip etc.) to give participants a practical, "hands

on" feeling of the themes of the conference.

Please see the conference website (www.artjoywood.org) for the details of the conference and exhibition. The list of speakers confirmed so far is also shown at www.artjoywood.org/speakers. You will find more here in the coming weeks. Please also find the details of the photograph and photo story competition at <http://www.artjoywood.org/competition>. The organizers hope that this event will be innovative (looking at aspects of wood product development and utilisation that may not have been covered in great detail before) and the participants will take away innovative perspectives on developments in the sector.

For registration to the conference and exhibition, send an email to registration@artjoywood.org. Authors can send papers by email to papers@artjoywood.org and posters to posters@artjoywood.org. Alternatively, authors can use the online abstract submission form available in the website. Photographic competition contestants can send their photos or photo story to susy.tafuro@fao.org.

Contact Persons: Dr. Adrian Whiteman, Forestry Department, FAO, Rome (Adrian.whiteman@fao.org)

Dr. Illias Animon, Forestry Department, FAO, Rome (Illias.Animon@fao.org)

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University of Alaska Fairbanks/Cooperative Extension Service

JOB TITLE: Term Instructor, Eastern Alaska Extension Forestry

DEPARTMENT: Cooperative Extension Service, Fairbanks

POSTING #: 0062011

PCN: 921042

GRADE: Commensurate with qualifications and experience

STATUS: Term-Funded, Full-Time (9 months with additional 1-3 months depending on funding), Non-Tenure Track

CLOSE DATE: Open Until Filled

This non-tenure track faculty position is located in Fairbanks and serves eastern Alaska stakeholders, primarily non-industrial private forest landowners. Although based in Fairbanks,

the position will spend a minimum of 60% of their time working on projects directly related to eastern AK (Delta Junction east -south / north - to the Canadian border) with frequent day and overnight travel (30%). This position will be the only Extension field forestry working in a region where woody biomass projects are increasingly common. Woody biomass, wildfire mitigation and fuels reduction, and primary processing of timber for partial conversion to wood biomass are important elements of the position. The successful candidate will collaborate with colleagues, multiple agencies, organizations, and groups. Projects include organizing, planning, and conducting Extension educational activities including development of programs, presentations, and seminars.

Funding requires project planning in accordance with the USDA National Institute of Food and Agriculture (NIFA) Renewable Resource Extension Act (RREA) plan of work, particularly forest resources based economic opportunities. Additional funding for 1- 3 month salary / benefits requires successful completion of forest stewardship plans according to Alaska DNR Division of Forestry (DOF) and USDA Natural Resource & Conservation Service (NRCS) specifications.

This position develops budgets, reports, and evaluations for activities and programs as required. A search for additional funding sources and development of grant proposals and contractual arrangements is necessary to support the position and the program. The faculty member collaborates on USDA Renewable Resource Extension Act (RREA) grant projects and reporting, writes and edits educational materials, articles, publications and web page content, distributes materials primarily for eastern Alaska but available for Alaska's northern forests landowners and provides technical information to diverse audiences. This eastern Alaska Extension forester is a new position which also serves as a key resource for Extension forestry technical assistance and provides information and assistance to the public, municipal, state and federal agencies and media via telephone, email, US Mail, distance delivery and in person.

The faculty member will be part of the Natural Resource & Community Development Program area and represents UAF Cooperative Extension Service in collaboration with the Alaska Department of Natural Resources Division of Forestry as part of the University of Alaska Fairbanks and follows all applicable policies and procedures. This position also serves on Cooperative Extension Service and University of Alaska committees as requested or assigned and promotes communication and effective working relations. This position is represented by a collective bargaining agreement.

If you would like to apply for this position, please go to <https://www.uakjobs.com> and click on "Create Application" link to select a User Name and Password and to create your application. Once you have completed this step you can begin applying for jobs on-line by clicking "Job Posting Search". If you need assistance, please contact UAF HR at 907-474-7700.

UAF is an AA/EQ Employer and Educational Institution.

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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

President: Todd Shupe
Past President: Susan Anagnost
President Elect: Alain Cloutier
Vice President: Sheldon Shi
Executive Director: Vicki L. Herian
Directors: Eric Hansen (2011)
Cecilia Bustos (2011)
Susan Diehl (2010)
Thomas M. Gorman (2010)
W&FS Editor: Mike Barnes
Newsletter Editor: David Jones

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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.

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/>

2011

LIST OF POTENTIAL SWST VISITING SCIENTISTS

ACDA, MENANDRO N., University of the Philippines Los Banos, Dept. of Forest Products and Paper Science, College,

Laguna, Philippines 4031 (+63 49 536 3432) (FAX +63 49 536 3206)

email: mnacda@yahoo.com

Specialty: Termite biology and control.

Will Discuss Formally and Informally: Above specialty.

ANDERSON, MATTHEW, Wood Advisory Services, Inc. 3700 RT. 44, Suite 102,

Millbrook, NY 12545 (845-677-3091) (FAX 845-677-6547) email: matt@woodadvisory.com

Specialty: Wood science consulting and applied research.

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

ARMSTRONG, JAMES P., West Virginia University, P.O. Box 6125,

Morgantown, WV 26506-6125 (304-293-7603) (FAX 304-293-2441)

email: jim.armstrong@mail.wvu.edu

Specialty: History of wood and forest use in the U.S.; Wood anatomy and physical properties;

Education in wood and

renewable materials.

Will Discuss Formally: Various topics related to forest resources in U.S. history (see:

http://jim_armstrong.forestry.wvu.edu/wdsc100).

Will Discuss Informally: Any of the above; The future of wood and renewable materials science..

BARNES, H. MICHAEL, Thompson Professor of Wood Science and Technology, Forest Products Laboratory, Mississippi State University, Box 9820, Mississippi State, MS 39762-9820

(662-325-3056) (FAX 662-325-8126) email: mbarnes@cfr.msstate.edu

Specialty: Wood deterioration and preservation.

Will Discuss Formally and Informally: Wood and composite deterioration and preservation, wood

science education.

Will Discuss Informally: Same as above.

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

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

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

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

BOWYER, JIM L., Director, Responsible Materials Program, Dovetail Partners, Inc., 528 Hennepin Avenue, Suite 703, Minneapolis, MN 55403 and Professor Emeritus, Department of Bioproducts and Biosystems Engineering, University of Minnesota, St. Paul, MN (651-490-7688) (FAX 612-333-0432)

email: jimbowyer@comcast.net

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

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

Will Discuss Informally: Almost anything.

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

Specialty: Forest products marketing and management

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

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

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

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

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

(including the submicroscopic nature of the cell wall).

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

CHEN, ZHANGJING, DR., 506 Alleghany Street, Blacksburg, VA 24060 (540-231-4962)
(FAX 540-231-8868) email: chengo@vt.edu
Specialty: Wood drying.
Will Discuss Formally and Informally: Above specialty.

CHOW, POO, 2406 Burlison Drive, Urbana, IL 61801 (217-333-6670) (FAX 217-244-3219)
email: pchow@uiuc.edu
Specialty: Physical, mechanical and chemical properties of wood-based materials.
Will Discuss Formally: Hardwood composites; Durability of wood for structural uses.
Will Discuss Informally: Durability of wood-base materials; Utilization of non-wood plant fiber.

COOPER, PAUL, Associate Professor, Forestry Department, University of Toronto,
33 Willcocks Street, Toronto, Ontario, CANADA M5S 3B3 email: p.cooper@utoronto.ca
Specialty: Wood deterioration and protection.
Will Discuss Formally: Interaction with chemicals with the wood cell wall; CCA fixation;
Environmental impacts of treated wood over the full life cycle; Recycling/reuse of treated wood.
Will Discuss Informally: Collaborative research; Graduate student recruitment;
Teaching methods.

DeBONIS, A. L., President, Wood Advisory Services, Inc., P.O. Box 1322, Millbrook, NY 12545
(914-677-3091) (FAX 914-677-6547) email: ald@woodadvisory.com
Specialty: Wood engineering.
Will Discuss Formally and Informally: Design properties of lumber; Grading of structural lumber
(visual and/or MSR); Reliability-based design; The role of consultants in the forest products field;
Heavy timbers in residential and commercial construction; Hardwood structural lumber.
FLYNN, KEVIN, Flynn & Assoc., Inc., Forensic Wood Technologist, P.O. Box 805,
El Cerrito, CA 94530 (510-758-4686) (FAX 510-758-4893) email: k_flynn@sbcglobal.net
Specialty: Forensic Evaluation, Historic Preservation, Wood Performance; Problem Analysis.
Will Discuss Formally: Durability; Degradation; Protection.
Will Discuss Informally: Any related issues.

FUNCK, JAMES W., Owner, Funck & Associates, 19 Point Fosdick Drive NW , Gig Harbor, WA
98335
ph: (253) 514-6288 cell: (541) 760-8642 email: funckj@comcast.net
Specialty: Optical and dielectric scanning for surface defects and roughness; Process modeling
and simulation (lumber and plywood); Process control.
Will Discuss Formally: Above listed specialties.
Will Discuss Informally: Above listed specialties; Education - graduate and undergraduate.

GARDNER, DOUGLAS J., University of Maine, 208 AEWB Building, Orono, ME 04469
(207-581-2846) (FAX 207-581-2074) email: douglasg@maine.edu
Specialty: Wood adhesion; Wood composites.
Will Discuss Formally: Wood adhesion; Wood surface chemistry; Wood/plastic composites.
Will Discuss Informally: Anything.

GOODELL, BARRY, Ph.D., Virginia Tech, Wood Science and Forest Products Dept, 230 Cheatham
Hall (0323),
Blacksburg, VA 24061 (540-231-8853) (FAX: 540-231-8176) email: goodell@vt.edu

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

Will Discuss Formally: Any of the above topics

Will Discuss Informally: Any of the above.

KAMKE, FREDERICK A., Endowed Chair-JELD-WEN, Oregon State University, Dept. Wood Science & Engineering, 104 Richardson Hall, Corvallis, OR 97331 (541-737-8422)

(FAX 541-737-3385) email: fred.kamke@oregonstate.edu

Specialty: Wood physics and composites.

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

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

KIM, MOON J., Department of Forest Products, Mississippi State University,

Mississippi State, MS 39762-9820 (662-325-3109) (FAX 662-325-8126)

email: mkim@cfr.msstate.edu

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

Will Discuss Formally and Informally: Above specialty.

LACHENBRUCH, BARBARA, Professor, Oregon State University, Dept. of Forest

Products, 118 Richardson Hall, Corvallis, OR 97331 (541-737-4213) (FAX 541-737-3385)

email: barb.lachenbruch@oregonstate.edu

Specialty: Tree ecophysiology.

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

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

LITTLE, ROBERT L., Armstrong Wood Products, 498 Salt Street, Winston-Salem, NC 27101

(336-406-1746) (FAX 336-703-1808) email: r_little@bellsouth.net

Specialty: Drying of hardwood lumber.

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

Will Discuss Informally: General wood technology.

LOFERSKI, JOSEPH R., Associate Professor, Virginia Polytechnic Institute and State

University, Department of Wood Science and Forest Products, Brooks Forest Products Center, Blacksburg, VA 24061-0503 (540-231-4405) (FAX 540-231-8868)

email: jloferski@vt.edu

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

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

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

Specialty: Wood gluing; Reconstituted products.

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

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

McLAIN, THOMAS E., Professor of Timber Engineering and Department Head, Oregon State University, 119 Richardson Hall, Corvallis, OR 97331-5751 (541-737-4257) (FAX 541-737-3385) email: Thomas.McLain.oregonstate.edu
Specialty: Engineering properties of wood and wood-based materials; Design of wood structures; Structural mechanical connections; Role of wood in modern society; Forest products/wood science academic, extension and research program administration.
Will Discuss Formally: Why Wood Engineering? The role of wood in modern society; Integrating extension in research and teaching; Pacific Northwest forest conflicts.
Will Discuss Informally: Above topics and most anything else.

MORRELL, JEFFREY J., Professor, Department of Forest Products, 230 Richardson Hall, Oregon State University, Corvallis, OR 97331-5751 (541-737-4222) (FAX 541-737-3385) email: Jeff.Morrell@oregonstate.edu
Specialty: Wood microbiology; Biodeterioration; Preservation.
Will Discuss Formally: Remedial control of decay in wood structures; Proper use of wood in adverse environments; OSU's cooperative pole research program.
Will Discuss Informally: Biodeterioration and biological interactions; Treatability of refractory wood species.

O'HALLORAN, MICHAEL R., President, Western Wood Products Association, 522 SW 5th Street, Suite 500, Portland, OR 97204-2122 (503-224-3930) (FAX 503-224-3934) email: mohalloran@wwpa.org
Specialty: Wood engineering, mechanics, wood structures, codes, standards, research management.
Will Discuss Formally: Structural panel industry (Plywood, OSB, waferboard) status, markets, uses, standards, engineering design, LRFD design; Glued laminated timber; Structural composite lumber.
Will Discuss Informally: Trade associations; Structural panel topics; International markets; above topics.

PARIDAH, MD. TAHIR., Associate Professor Dr., Universiti Putra Malaysia, Institute of Tropical Forestry and Forest Products, Serdang, Selangor, MALAYSIA 43400 (608-89472186) (FAX 608-89472180) email: parida_introb@yahoo.com
Specialty: Bonding of tropical wood and non-wood materials; Kenaf as raw material for composite products.
Will Discuss Formally: On MOU between UPM and host University: 1) establish student exchange program; 2) R&D collaboration..
Will Discuss Informally: Post graduate studies at UPM.

SHALER, STEPHEN, Professor, University of Maine, 5755 Nutting Hall, Orono, ME 04469-5755 (207-581-2886) (FAX 207-581-2875) email: Steve.Shaler@umit.maine.edu
Specialty: Wood mechanics and composites.
Will Discuss Formally: Wood fiber properties; Computer and imaging applications; Experimental mechanics.
Will Discuss Informally: Hybrid wood composites.

SHI, SHELDON QIANG, Mississippi State University, Forest Products Department, Box 9820, Mississippi State, MS 39762-9820 (662-325-3110) (FAX 662-325-8126) email: sshi@cfr.msstate.edu
Specialty: Wood (Wood-plastics) composites, wood adhesion, moisture related properties of

wood and wood composites.

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

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

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

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

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

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

SMITH, W. RAMSAY, Director Global Wood Research, Arch Wood Protection, Inc., 3941 Bonsal Road, Conley, GA

30288; (404-362-3970) (FAX 404-363-8585) email: wrsmith@archchemicals.com

Specialty: Wood physics, international research in wood protection,

Will Discuss Formally: Research needs in wood protection; need for academic research programs in cooperation with industrial research programs.

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

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

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

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

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

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

email: dstokke@iastate.edu

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

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

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

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

Specialty: Straw/wood fiber chemistry.

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

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

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

Will Discuss Formally: Environmental aspects of wood products.

TICHY, ROBERT J., Sr. Research Engineer, Composite Materials and Engineering Center, Washington State

University, 27013 Pacific Highway S, #179, Des Moines, WA 98198

(253-529-0900) (FAX 253-529-1326) email: bobtichy@msn.com

Will Discuss Formally: Engineered building materials and systems.

Cellulose-based composites. Standards and Codes.

Will Discuss Informally: Above topics. The value of R&D; Product and market development.

TICHY, ROBERT J., Sr. Research Engineer, Composite Materials and Engineering Center, Washington State

University, 27013 Pacific Highway S, #179, Des

Moines, WA 98198(253-529-0900) (FAX 253-529-1326) email: bobtichy@msn.com

Will Discuss Formally: Engineered building materials and systems.

Cellulose-based composites. Standards and Codes.

Will Discuss Informally: Above topics. The value of R&D; Product and market development.

VLOSKY, RICHARD P., Associate Professor, Louisiana State University, LA Forest Products Development Center, School of Renewable Nat. Res., Baton Rouge, LA 70803-6202 (225-578-4527) (FAX 225-578-4251) email: volsky@lsu.edu

Specialty: Marketing; Economic development.

Will Discuss Formally: Marketing; Forest products industry development.

Will Discuss Informally: Comparison of state development efforts.

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

Specialty: Nondestructive evaluation (NDE) of wood; NDE of wood structural members/systems; Wood drying.

Will Discuss Formally: NDE of trees, logs, lumber; NDE of structural members/systems.

Will Discuss Informally: Dry kiln control.

WIEDENBECK, JANICE K., Project Leader, USDA Forest Service, Northeastern Forest Experiment Station, 241 Mercer

Springs Road, Princeton, WV 24740 (304-431-2708)

(FAX 304-431-2772) email: jwiedenbeck@fs.fed.us

Specialty: Secondary wood products processing; Manufacturing system simulation modeling; Production control.

Will Discuss Formally: Research pursuits and accomplishments of Princeton WV's work unit "Improved Processing Technology for Hardwoods" including gang-rip-first research and application programs; Rough mill simulation models; Yield improvement research; New

hardwood lumber processing systems and technologies, etc.

WINANDY, JERROLD, Winandy & Associates LLC, 19872 Austin Street, NE, East Bethel, MN 55011 (763-434-9365)

(cell: 608-234-8060) email: jwinandy@wisc.edu

Specialty: Engineered wood composites; Durability; Composites as tool for sustainable forestry.

Will Discuss Formally: Composites; Preservation; Property effects; Enhancing durability.

Will Discuss Informally: Standards; Codes; Physical/mechanical properties.

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

email: ning.yan@utoronto.ca

Specialty: Material science.

Will Discuss Formally: Wood composites performance; Adhesive-wood interactions;

Wood/natural fiber plastic composites; Pulp and paper.

Will Discuss Informally: Durability and weathering of forest products.

ZERBE, JOHN I., 3310 Heatherdell Lane, Madison, WI 53713 (608-274-0714)

email: jzerbe@fs.fed.us

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

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

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

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