

PROFESSIONAL PAGES

SUMMARY OF AWARDS PRESENTED AT 2022 SWST CONVENTION, JULY 10-15, 2022, PEPPERS SALT RESORT AND SPA IN KINGSCLIFF, NSW, AUSTRALIA

GEORGE MARRA EXCELLENCE IN WRITING

The George Marra Award is given in memory of George Marra by the Marra Family in recognition of George's devotion to excellence in writing. Every article in each issue of the most recent volume of Wood and Fiber Science is read and judged by a committee. The committee for 2022 included: Tom Gorman, Prof. Emeritus, University of Idaho, USA and Chair of Committee; Duncan Mayes, Lignutech Oy (Ltd), Finland; Samuel Glass, USDA Forest Products Laboratory, USA; Ilona Peszlen, North Carolina State University, USA.

First Place

Juan L, Bohumil K (2021) Repeatability of adhesion force measurement on wood longitudinal cut

cell wall using atomic force microscopy. *Wood Fiber Sci* 53(1):3-16.

Second Place

Jang E-S, Kang C-W (2021) Effect of porous traits of hardwoods cross-section on sound absorption performance—focusing on six species of Korean hardwoods. *Wood Fiber Sci* 53(4):260-272.

Third Place

Liu F, Zhang H, Wang X, Jiang F, Yu W, Ross RJ (2021) Acoustic wave propagation in standing trees—Part II. Effects of tree diameter and juvenile wood. *Wood Fiber Sci* 53(2):95-108.

STUDENT POSTER COMPETITION

The purpose of the Student Poster Competition is to encourage student membership and participation in Society of Wood Science and Technology (SWST), encourage student attendance at the SWST International Conference, recognize excellence in student research, and improve the visibility of student research efforts. A committee of five on a 100-point scale, using the following criteria, evaluated the abstracts and poster presentations:

Submitted Abstract

1. Soundness of research hypothesis (10 points)
2. Scientific writing ability (10 points)
3. Organization (10 points)

Poster Presentation

4. Scientific merit (newness, breadth of interest, and potential impact of the research) (15 points)
5. Experimental design and thoroughness of investigation (15 points)
6. Validity of conclusions (15 points)
7. Organization and visual quality of presentation (15 points)
8. Response to questions of judges (10 points)

This year's panel of student poster judges were: Chair: Eva Haviarova, Purdue University, USA; Lech Muszynski, Oregon State University, USA; Bo Kasal, Fraunhofer-Institut für Holzforschung, Germany; Ilona Peszlen, North Carolina State University, USA; Kyra Wood, University of Tasmania, Australia.

Student Poster Competition Participants

Lilik Astari, University of Melbourne, Australia, “Suitability of Corn Stalk (*Zea mays L.*) and Citric Acid Solution for Single Layer Particle Board: Effect of Particle Board Density on Bending Strength and Thickness Swelling”

Young-Min Cho, Seoul National University, Republic of Korea, “Study on the Atom Transfer Radical Polymerization According to the Structural Difference of Organosolv Lignin and the Physicochemical Characteristics of Ligno-bioplastics”

Azin Ettelaie, University of Tasmania, Australia, “Optimising the Adhesive Performance of Engineered Wood Products Made from Tasmanian Plantation Eucalypt”

Shofi Fauziyyah, University of Natural Resources and Life Sciences, Vienna, Austria, “Wood–Water Relationships of Fast-Grown Wood Species Coming from Indonesia and Austria”

Vikash Ghildiyal, University of Canterbury, New Zealand, “Strategies for Reducing Drying Collapse in Difficult-to-Dry Plantation Grown Timber”

Patrick Grant, Queensland University of Technology, Australia, “Applying Image Analysis Techniques and Spectral Segmentation to Generate a Virtual Board Representation for Simulating Moisture Migration in Laminated Timber Panels”

Mahboobeh Hemmati, University of Arkansas, United States, “Life Cycle Assessment of Construction Process in Mass Timber Structure”

Moein Hemmati, University of Arkansas, United States, “Comparative Analysis of Thermal Comfort Performance of Wood, Brick, and Concrete”

Jian Hou, University of Tasmania, Australia, “Trial Study of the Effect of Glue Type on Finger Joint Strength of *E. nitens*”

Jiyao Hu, University of North Texas, United States, “Binderless Bio-Based Cathode from Wood”

Trinh Huynh, University of the Sunshine Coast, Australia, “Multiple Ecosystem Services of

Monoculture Hardwood Plantations: A Case Study of Spotted Gum Forests in Queensland”

Caroline C. Jaozandry, INRAE, France, “Measurement of Wood Moisture Content: Variations in French Forest Resources”

Jungkyu Kim, Seoul National University, Republic of Korea, “Effect of Hemicellulose Hydrolysate Addition on Drying and Redispersion Behavior of Cellulose Nanofibers”

Yunjin Kim, Seoul National University, Republic of Korea, “Development Strategy of Cationized Nanocellulose Hydrogel Adsorbent for Effective Cr(VI) Removal”

Lena Maria Leiter, University of Natural Resources and Life Sciences, Vienna, Austria, “Dancing Wood Fibers—Engage Children in Wood Science with Triboelectricity”

Yingwei Liang, University of Tasmania, Australia, “Serviceability Performance of Cross-Laminated Timber Panels from Fibre-Managed Plantation Hardwood”

Mengyuan Liu, Tokyo University of Agriculture and Technology, Japan, “Economic Ripple Effects of Cross-Laminated Timber Manufacturing in Japan”

Kuluni Millaniyage, University of Tasmania, Australia, “Comparing the Serviceability of Different Species Used for Flooring Under Extreme Indoor Environmental Conditions: A Tasmanian Case Study”

Jaewon Oh, Seoul National University, Republic of Korea, “Greenhouse Gas Emissions and Embodied Energy Analysis of Equivalent Performance Structure Members by Building Material”

Sangwoo Park, Seoul National University, Republic of Korea, “Evaluation of Biodegradability and Characterization of Biodegradable Plastic Depending on Lignin Content”

Lea Primožič, InnoRenew CoE, Slovenia, “Sustainability Communication of Wood Sector in Comparison to Textile and Car Industry”

Shaikh Atikur Rahman, Deakin University, Australia, “*Advanced Finite Element Modelling Technique to Simulate Delamination of Cross-Laminated Timber Under Out of Plane Loading*”

Claudia Roder, University of the Sunshine Coast, Australia, “*Effect of Moisture and Fungal Attack on CLT Connections*”

Nežka Sajinčič, InnoRenew CoE, Slovenia, “*Making Knowledge About Renewable Materials Accessible and Engaging with Educational Videos Based on Instructional Design*”

Morgan Sandera, University of Georgia, United States, “*Comparisons of Wood Quality Among Pines: Naturally Regenerated 1 Longleaf vs Planted Longleaf and Planted Loblolly*”

Jacob Snow, University of Maine, United States, “*Real-Time Monitoring of the Hygrothermal Performance of a CLT School Building*”

Juan Roberto Vargas, University of the Sunshine Coast, Australia, “*Ability of Shallow Preservative Barriers to Protect Eucalyptus Heartwood Timbers: Accelerated Testing*”

Cody Wainscott, Oregon State University, United States, “*In-Depth Characterization of Bondlines in Cross-Laminated Timber Made with Preservative-Treated Lumber*”

Wenxuan Wu, The University of Queensland, Australia, “*Novel Insights Into Self-Sustained Smouldering of CCA-Treated Timber Poles*”

Zidi Yan, University of Queensland, Australia, “*Effect of Repeated Wetting and Drying on Withdrawal Capacity and Corrosion of European Screws in Treated and Untreated Australian Sawn Timber*”

Chae-Hwi Yoon, Seoul National University, Republic of Korea, “*Anti-Inflammatory Effect of Sesquiterpenoids Extracted from Major Coniferous Species in Korea*”

Yuhao Zhang, University of Queensland, Australia, “*Oil Heat Treatment of Timber: Durability Enhancement vs Loss of Mechanical Properties*”

Student Poster Competition Winners

First Place: Wenxuan Wu, The University of Queensland, Australia, “*Novel Insights Into Self-Sustained Smouldering of CCA-Treated Timber Poles*”

Second Place: Cody Wainscott, Oregon State University, United States, “*In-Depth Characterization of Bondlines in Cross-Laminated Timber Made with Preservative-Treated Lumber*”

Third Place: Trinh Huynh, University of the Sunshine Coast, Australia, “*Multiple Ecosystem Services of Monoculture Hardwood Plantations: A Case Study of Spotted Gum Forests in Queensland*”

STUDENT ORAL PRESENTATIONS

In 2021, SWST began awards for student oral presentations to encourage participation and attendance at the SWST International Convention. This year’s judges were: Chair: Henry Quesada, Purdue University, USA; Rameez Rameezdeen, University of South Australia, Australia; Tahiana Ramanantoandro, University of Antananarivo, Madagascar; Armando McDonald, University of Idaho, USA; Jan Tippner, Mendel University in Brno, Czech Republic

For 2022, the winners are:

First Place: Lena Marie Leiter, University of Natural Resources and Life Sciences, Vienna, Austria, “*Developing a Continuous Measurement Setup for Electrostatic Surface Charges, Implemented in Woodworking Processes*”

Second Place: Stavros Spyridakis, University of Queensland, Australia, “*A Novel Bench-Scale Test Method to Characterise the Ignition*”

Conditions for Timber Protected with Intumescent Coatings”

Third Place: Juan Roberto Vargas Garcia, University of the Sunshine Coast, Australia, “Ability of Shallow Preservative Barriers to Protect Australian Eucalyptus Heartwood Timbers: Accelerated Testing”

Distinguished Service Award

The SWST Distinguished Service Award is given in recognition of distinguished service to the profession as a whole and for extraordinary contributions in wood science and technology. Such service may have been made in any educational, technological, scientific, or professional area directly related to the profession of Wood Science and Technology in furtherance of the objectives of the Society as outlined in its Constitution and Bylaws. Guidelines for the award can be found at <http://www.swst.org/wp/awards/award-distinguished-service-profession-wood-science-technology/>. The 2022 winner is Armando McDonald from the University of Idaho (UI).

Armando McDonald is a professor in Forest and Sustainable Products in the Department of Forest, Rangeland and Fire Sciences at the UI. Armando’s comments on his award follow:

I am very honored to be recognized by SWST for this Distinguished service award to the profession of wood science and technology. My career in wood science started at the New Zealand Forest Research Institute (NZ-FRI, now Scion) in 1985 where I was employed as a wood chemist. While at NZ-FRI I honed my skills in wood materials chemistry and wood processing and products by working on various projects. The last few years at NZ-FRI I was project leader of the Biomaterials group. Next, I decided to take the plunge and take up a faculty position in the Department of Forest Products at UI in 2001. Once at UI this exposed me to SWST and its importance in being a member and having an SWST accredited B.S. program in Forest Products. I have been engaged with SWST over the past 2 decades at meetings, judging student presentations, George Marra award committee, and more recently on a multi-university team to increase enrollment of students into wood science/forest

products programs both nationally and globally. As part of our SWST accredited program, I teach courses in lignocellulosic biomass chemistry, biocomposites, bioproducts and bioprocessing development (capstone class) and introduction to forest and sustainable products. Teaching is an enjoyable part of being a professor seeing students develop and moving on to their careers in the forest products sector. On the research side of things at UI has been very diverse and invigorating and spans from wood and biomass chemistry, wood composites, bioplastics, wood science, biofuels, lignin-based polymers, fermentation of food waste, waste plastic utilization, municipal solid waste utilization and now to wood based additive manufacturing. This has been (is) achieved by an excellent group of 16 Ph.D. and 20 M.S. students, 6 post-doctoral scholars and 16 visiting scholars over the past 20 years. I think our research efforts will help with developing a biobased circular economy to mitigate climate change.

Fellow Award

The Fellow award recognizes significant contributions to the wood science and technology profession and service to the Society by SWST members. Guidelines and past recipients can be found at <http://www.swst.org/wp/awards/swst-fellow-award/>. **Fellow Award** was presented to **Eric Hansen** from Oregon State University. Eric has been a strong supporter of SWST since a student, served on numerous SWST committees, was a past President of the Society and serves as the Editor of BioProducts Business.

Distinguished Educator Award

The SWST Distinguished Educator Award is intended to recognize individual faculty and instructors at a university for sustained excellence in teaching or Extension/Outreach programming. Teaching Recognition: The distinguished educator award recognizes sustained excellence in teaching that incites intellectual curiosity in students, inspires colleagues, and makes students aware of significant relationships between the academia and the world. This year’s award goes to Gloria Oporto from West Virginia University and Laurence Schimleck from Oregon State University.

Reviewer of the Year Award

In 2019, SWST Executive Board instituted a Reviewer of the Year Award for Wood and Fiber Science. All the issues of 2020 were considered. An honorarium of \$300 is awarded to the Reviewer of the Year. This year's award goes to Jilei Zhang from Mississippi State University.

The following criteria is used to judge the Reviewer of the Year Award, which is announced at the annual SWST Meeting:

1. The number of papers reviewed in the previous year.
2. The quality of the review as judged by the editors.
3. Nomination by an author.

All reviewers are ranked according to these criteria and the highest number of points is deemed the Reviewer of the Year.