

SWST International Convention



Thursday, July 14, 2022
Ballroom
Peppers Salt Resort & Spa
Kingscliff, NSW, Australia

12:30 – 14:00 Business Meeting, Awards Ceremony and Lunch

MINUTES OF BUSINESS MEETING

Call to Order and President’s Review of Year and Remarks for New Year– Rupert Wimmer

Rupert welcomed all to the 2022 Business Meeting and said that Covid had played an important role in his term as President, especially in the fact that he couldn’t attend the 2021 Convention in Flagstaff and that we had to have online board meetings for 2 years.

He announced that we have an ongoing search for a new Executive Director who will be hired starting January 1, 2023, and that we are interviewing and hope to have a decision at our Saturday Board meeting. He also announced that Jeff Morrell will be our new *Wood and Fiber Science* Editor starting January 1, 2023.

Part of his focus during his presidency was to reactivate accreditation and make it more feasible for European universities. Because of Covid, no on-site visits were made. Another goal he had was to make SWST better known among European wood scientists and this is in the process. With accreditation available to European universities, this should help bring SWST in better focus for folks. He also is launching an SWST podcast called “Wood Talk” that will be interviews he does with various people in the wood science field.

Short Term Scientific Mission (STSM) visits have been resumed with fewer applicants this year, but we hope more will be coming in the future. He was very proud of the Women Ambassadors Creating the Field of Wood Science exhibit that was initiated his year and excited about the future of the exhibit in coming years.

Approximately 75 people were in attendance.

Award Presentations

- DSA – 2022 Armando McDonald
- Fellow – 2022 Eric Hansen

- Distinguished Educator Award – 2022 Gloria Oporto & Laurence Schimleck
- Reviewer of the Year – 2022 Jilei Zhang
- George Marra Excellence in Writing

2022 Committee: Chair: Tom Gorman, Prof. Emeritus, University of Idaho, USA; Duncan Mayes, Lignutech Oy (Ltd), Finland; Samuel Glass, USDA Forest Products Laboratory, USA; Ilona Peszlen, North Carolina State University, USA

1st place – Juan, Li and Kasal Bohumil. Repeatability of adhesion force measurement on wood longitudinal cut cell wall using atomic force microscopy. No. 1, pp. 3-16.

2nd place – Jang, Eun-Suk and Chun-Won Kang. Effect of porous traits of hardwoods crosssection on sound absorption performance – Focusing on six species of Korean hardwoods. No. 4, pp. 260-272.

3rd place – Liu, Fenglu, Houjiang Zhang, Xiping Wang, Fang Jiang, Wenhua Yu, and Robert J Ross. Acoustic wave propagation in standing trees – Part II. Effects of tree diameter and juvenile wood. No. 2, pp. 95-108.

- Student Poster Competition

Student Poster Competition Judges: 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 Ettelaei, 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”*

1st Place Student Poster Competition Winner: **Wenxuan Wu**, The University of Queensland, Australia, *“Novel Insights Into Self-Sustained Smouldering of CCA-Treated Timber Poles”*

2nd Place Student Poster Competition Winner: **Cody Wainscott**, Oregon State University, United States, *“In-Depth Characterization of Bondlines in Cross-Laminated Timber Made with Preservative-Treated Lumber”*

3rd Place Student Poster Competition Winner: **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 Presentation Awards: Judging is still going on so these winners will be announced at the Thursday evening banquet.

Judges are: 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

Executive Director's Report and Budget – Victoria Herian

Current Members

Full members	138
Emerging Full	51
Emerging Student	17
Student Members	52
Retired Members	<u>21</u>
TOTAL	279

Current Subscribers to *Wood and Fiber Science*

Subscribers - 53 (34 @\$300; 11 @\$500; 1 @\$750; 2 @\$1500; 5 @\$2000)

Wood and Fiber Science went to open access on January 1, 2022 with no print copies. This enabled a much broader audience as well as the opportunity to have color figures at no additional cost.

Vanguard Accounts and CD's

The Financial Portfolio Committee (Doug Gardner, Jim Funck, Paul Smith, and Vicki Herian) looked at the accounts as of July 2022 and decided to proceed with what we have. The current total investments as of July 1, 2022, is \$ 523,659.81. The savings balance is \$17,137.98.

Checking Account

The balance in the checking account as of July 1, 2022, is \$4,507.00. The balance in the wire transfer checking account is \$0. The balance in the Recruiting Video account is \$10,000.00.

Summary of 2021 Convention

The 2021 Convention was held at Little America Hotel, Flagstaff, Arizona, August 1-6 (1 hour from Grand Canyon National Park). The theme of the Convention was “Value from Wood Resources through Innovation”.

We had 56 oral presentations and 25 posters (17 were student competition posters). We had 66 people registered for the Convention (26 student and 40 regular). With the continued closure of the US borders to Europe and beyond, many international people had to cancel from the program.

We began the Convention with a Welcome Reception on August 1 on the Little America Hotel East Lawn from 19:00 to 21:00 (Drinks and Potato Bar), even after a very heavy rain late in the afternoon.

Monday, August 2 was kicked off by Keynote speaker Andrew Sánchez Meador from Northern Arizona University, speaking about “Clearing Hurdles to Forest Restoration in the Southwestern United States”. He gave us a great overview of what was happening in Arizona and states nearby regarding the forests and land.

This was followed by an invited session entitled “Approaches to Combatting Illegal Logging in Timber Trade”. Cady Lancaster from Oregon State University and Kristen Finch from USFS International Programs put together a unique program with recorded speeches from Jason Grant from World Wildlife Fund and Charlie Watkinson from Agroisolab in the U.K. They weren’t able to be there in person because of COVID. Others filling out the session were Cady Lancaster, Adam Wade, and Kristin Finch. The topic area was something we have not normally had in our conventions but an amazing line of work using wood anatomy and wood forensics to determine illegal timber trade.

Other sessions on Monday were “Forest and Tree Values: Adequate Land Use, Products, and Environmental Threats”, and “International Trends in Innovation and Education”.

The day ended with an evening session for students called “Student Trivia Night” where students submitted photos of their work or other wood-related items and other students randomly picked a picture and had to explain what it was. They received prizes for best understanding and description. 26 students were there to participate. Food and drinks were provided.

The next day, August 3, Sessions included “Business Market Developments and Regulations”, “Sustainable Living and Housing”, and “Valuable Composites and Adhesives Session” (we even got to listen once again to Rupert Wimmer singing “The SWST Blues” song). The day ended with a 3-hour poster session and student poster competition.

Wednesday, August 4 was a free day to explore Grand Canyon and Flagstaff area. There are so many national parks, forests, monuments, and great hiking around the area. The difficulty was to find time to do what people wanted.

Thursday, August 5, we again had a session on “Valuable Composites and Adhesives Session” as well as one on “Resilient Wood Resources (Revisiting Wood Quality)”, and “Wood Physics and Properties”. The night culminated with the Banquet which was held in the Ballrooms at the Little America Hotel with a South of the Border buffet that was enjoyed by all. AND we had music provided by our very own Doug Gardner and Tammi França. Unfortunately, Rupert Wimmer couldn’t join them as he couldn’t travel to the US, but there is always next year!

The Convention ended on Friday with a continuation of the session on “Wood Physics and Properties” as well as a “Workshop Review on Wood Education”. There was a closing ceremony where all were thanked, especially those who stepped in and filled speaking slots when so many international people had to cancel. A positive side of the pandemic was that all of our students were given the opportunity to give a full 15-minute presentation instead of a 3-minute Early Stage Researcher presentation which helps build their presence and ease of giving`

Sponsors for the 2021 Convention were: Gold - Surface Measurement Systems; Silver – West Virginia University; Copper – InnoRenew CoE, North Carolina State University, Oregon State University, Virginia Tech; Bronze – Auburn University, Hoover Treated Wood Products Inc, and University of Maine.

Three new events we had this year:

- Young Researcher/Mentor outing on Sunday, August 1 where young researchers can choose to go hiking, biking, or do an extreme adventure with a Mentor. There were 10 people signed up and they all went hiking to Fatman’s Loop. Mentors for the outing were Gloria Oporto and Ilona Peszlen.
- Student Presentation Award – 20 students giving 22 oral presentations were judged based on criteria for an award of \$600, \$250, or \$150. The generous donation of the money for the award was received from this year’s First Place Marra Award winners, Fred Kamke and Balkis Bakar. This is an award SWST should continue to present each year.
- Student Trivia Night – Monday night from 19:00 to 21:00. We hosted a student trivia night with drinks, food, and prizes. There were 26 students attending.

2022, 2023, 2024 Conventions

2022 Convention is being held at Peppers Salt Resort & Spa, Kingscliff, NSW, Australia, July 10-15, 2022. We are featuring our 16 Women Ambassadors Creating the Future of Wood Science in a special display at our opening Reception on Sunday evening.

We will open our convention on Monday morning with a “Welcome to Country” provided by Nicole Rotumah, descendent of the Minjungbal People and Local Goori Woman. Our keynote will be provided by Bob Leicester from CSIRO in Australia talking about Service Life Prediction.

During the Convention we will have 78 oral presentations, 19 Early-Stage Researcher presentations, 26 regular poster presentations, and 36 student poster presentations in the Student Poster Competition. We have 153 people scheduled to attend from 21 countries and 5 continents.

Our Banquet will be held Thursday evening at the Mantra on Salt Beach Kingscliff’s Plantation Room.

The Friday Convention tour (separate cost) will feature visits to Minjungbal Museum & Cultural Centre, Hurford Hardwood Timber Processing Plant, Forestry Corporation New South Wales plantation site and presentation and Macadamia Castle and Wildlife Sanctuary.

2023 Convention will be held June 25-30, 2023 at the [Crowne Plaza Tennis and Golf Resort](#) in Asheville, North Carolina, USA. It is located only 15 minutes from the Asheville airport, 2 miles to downtown Asheville, and ½ hour to the Blue Ridge Parkway and Smoky Mountains National Park as well as 15 minutes to the famous Biltmore Estate.

2024 Convention will be held in Slovenia. Details to come.

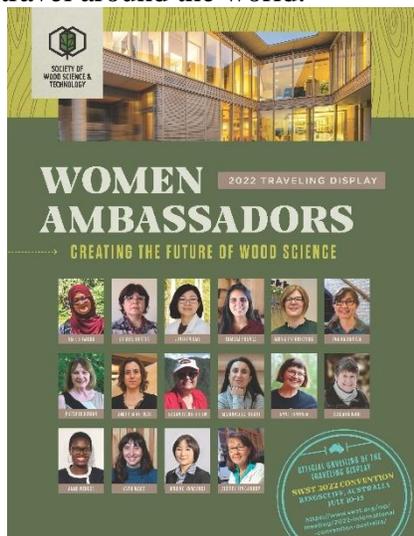
Short Term Scientific Mission (STSM)

The 2020 Awardees, Andry Clarel Raobeloina, Raphaela Hellmayr, and Martiin Nopens were not able to complete their travel in 2020 or 2021 due to COVID-19 restrictions. Raphaela Hellmayr and Andry Clarel Raobeloina were able to complete their visits at this point (see reports and videos at <https://www.swst.org/wp/education/short-term-scientific-missions-stsm/completed-stsm/>). Martiin Nopens is currently conducting his visit at the University of Maine.

The 2022 Awardees are: Fatemeh Rezaei visiting Oregon State University; Mustafa Zor visiting BC Materials in Leice, Spain; and Filip Majstorović visiting Forest Products Laboratory in Madison, WI USA. Mustafa Zor has completed his visit and materials can be found at above link also. The other 2 will complete by the end of 2022.

Women Ambassadors Creating the Future of Wood Science

This is a traveling SWST-sponsored exhibition designed to celebrate women ambassadors in the field of Wood Science over time. Ambassadors for 2022 are: Balkis Bakar, Cecilia Bustos, Jinzhen Cao, Tamara Franca, Maria Fredriksson, Eva Haviarova, Victoria Herian, Andreja Kutnar, Susan LeVan-Green, Mariapaola Riggio, Anne Toppinen, Barbara Wade, Anne Wekesa, Kyra Wood, Mariko Yamasaki, and Audrey Zink-Sharp. The first exhibition will take place during the 2022 SWST International Convention in Kingscliff, Australia, July 10-16 and will be available to travel around the world.



SWST Executive Director

We are recruiting for a new Executive Director. After many years in this position, I will be retiring after the June 2023 Convention. I will train the new person for 6 months in 2023. Application submission closed on June 15 and the Executive Board is processing the applications. An announcement will be made once someone is accepted. I would like to thank all of you I have met and worked with during these many years. The Society is an amazing organization and deserves to continue to grow and prosper.

Miscellaneous

We have SWST promotional clothing and bags available for purchase. These can be ordered directly from the company at <http://www.swst.org/wp/product-category/clothing/>

Budget and Financial Status

Total Investments:	\$523,659.81
Checking Account:	\$ 4,507.00
Savings Account:	\$ 17, 137.98
Wire Transfer Checking Account:	\$0
Recruiting Video Account:	\$10,000.00

Fiscal Status December 31, 2021

BALANCE SHEET

Total Assets	\$675,451.15
Total Liabilities	\$16,632.67
Total Equity	\$658,818.48
Total Equity & Liabilities	\$675,451.15

INCOME STATEMENT

	<u>2021 Budget</u>	<u>Actual 12/31/21</u>
Total Income	\$195,445.00	\$137,962.65
Total Expenses	\$209,597.00	\$155,031.87
Budget Reserves	-\$14,152.00	-\$17,069.22

Fiscal Status July 1, 2022

BALANCE SHEET

Total Assets	\$549,212.68
Total Liabilities	\$ -382.33
Total Equity	\$549,595.01
Total Equity & Liabilities	\$549,212.68

INCOME STATEMENT

	<u>2022 Budget</u>	<u>Actual 7/1/22</u>
Total Income	\$209,000.00	\$117,178.37
Total Expenses	<u>\$216,254.00</u>	<u>\$ 87,374.75</u>
Budget Reserves	-\$ 7,254.00	\$ 29,803.62

2022 Convention Sponsors

- Strategic Sponsor



- Platinum Sponsor



- Gold Sponsor



- **Silver Sponsor**



InnoRenew CoE



Virginia Tech



WASHINGTON STATE
UNIVERSITY

Washington State University

West Virginia University



University of Maine



Nanjing Forestry University



Accsys (The Netherlands)



HS TIMBER
GROUP

HS Timber Group GmbH-Austria



University of Natural Resources and Life Sciences, Vienna

- **Copper Sponsor**



Oregon State University
Wood Science and Engineering

- Oregon State University

- **Bronze Sponsor**



Auburn University



Mississippi State University



Japan Wood Research Society



Purdue University



UNIVERSITÉ
LAVAL

Faculté de foresterie,
de géographie et de géomatique
Département des sciences du bois et de la forêt

Université Laval



EWPAAs Australia

Old Business

- **Minutes of 2021 Annual Meeting** - Published on 2021 Annual Convention webpages: A motion was made, seconded and passed to accept the 2021 Annual Business Meeting Minutes.
- **Necrology Report** – Frank Beall, Terry Amburgey. A call was made to the audience for any others, but none were reported.
- **Wood and Fiber Science Report** – Susan LeVan-Green (report given by Jeff Morrell)

A. Article Report:

There were 29 articles published between July 2021 and June 2022, including Professional Pages.

I do not decline articles if the article is missing supplementary files. I send the authors the templates that are missing and tell them to upload under the same original number. If the article is not in the right format, such as having authors or anything else that would hinder a double-blind peer review, then I will reject the manuscript, send them the proper templates and instructions, and tell them to resubmit under another number. I decline articles immediately if they should go to BioProducts Business and I send the authors the URL address to submit to BioProducts Business. Some articles are declined if they are not appropriate or if the general nature of the article is poor scientific quality.

Of the 4 regular issues, the countries of submission are as follows:

United States	13
Republic of Korea	4
China	3
Japan	2
Saudi Arabia	1
Iraq	1
Poland	1
Costa Rica	1
Slovenia	1

B. Reviewer of the Year Award:

The SWST Executive Board has decided to award a Reviewer of the Year Award starting with the issues for 2020 (Volume 52). The Reviewer of the Year was selected and will be announced at the Business Meeting of the 2022 Conference.

The following criteria is used to judge the Reviewer of the Year Award:

- The number of papers reviewed in the previous year.
 - a. 2 reviews – 2 points
 - b. 1 review – 1 point
 - c. More than 2 reviews – 3 points.
- The quality of the review as judged by the editors. Some reviewers provide specific recommendations and questions that aid the authors in improving their papers, while other reviewers provide general recommendations. Specific recommendations and questions aid the authors in their revisions. The editors see all the review comments and the Editor and Associate Editor would assign points based on the quality of the review.
 - a. Not much help - 1 points
 - b. Suggestions mostly editorial in nature – 2 points
 - c. Suggestions helpful to authors for clarification – 3 points
 - d. Suggestions not only provided clarification, but also provided substantial feedback – 4 points

- e. Comments were extremely helpful to authors for enhancing paper – 5 points
- Nomination by an author. The authors know which reviewers are most helpful in their revisions of the manuscript. We would provide an opportunity for the authors to nominate a reviewer by the nomenclature (Reviewer A, B etc) for those reviews which they deemed most helpful. 1 point for an author submitting a reviewer or reviewers.

C. Impact Factor

Recently, the impact factors for 2021 were released. Wood and Fiber Science’s impact factor increased to 1.676 from 0.848 in 2018. The Executive Board is delighted with this increase since much effort has been implemented to make this happen. The following table shows the changes since 2018:

2018	0.898
2019	1.104
2020	1.567
2021	1.676

I am working on a Special Issue with Dr. Cady Lancaster on *Advances in Forensic Wood Science to Stop Illegal Logging*. Dr. Lancaster is the Content Editor. We hope this Special Issue will be out by the end of the year.

D. New Editor

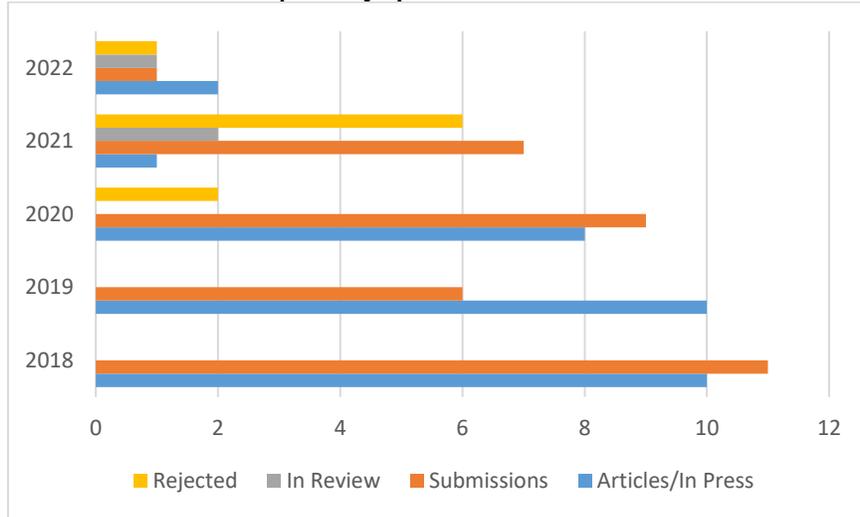
I am stepping down as Editor on December 31, 2022, and Dr. Jeffrey Morrell will be assuming the Editor position. I will work with Dr. Morrell over the next several months so that the transition will go smoothly. Also, I will continue with the Special Edition mentioned above until it is published and if it goes into next year.

- **BioProducts Business Report** – Eric Hansen

January 2022 recognition by Scopus became official and was promoted directly to membership and to others through social media. BioBus is already listed in:

- Cabell’s Scholarly Analytics
- Directory of Open Access Journals
- Norwegian Register for Scientific Journals, Series and Publishers
- Early 2022 Editorial Board meeting produced changes/developments in the journal:
- Description: BioBus is dedicated to advance theoretical and practical understanding of business topics related to a wide range of biomaterials and bioproducts that constitute the primary industry sectors of the bioeconomy, including a suite of offerings such as wood products, agricultural products, non-timber forest products and other ecosystem services.
- Commentaries: Communications in the form of research notes on published papers or viewpoints from readers on contemporary issues. These may also present methodological commentaries and work-in-process for constructive feedback from peers.

Primary challenge for BioBus is low number of submissions – the last two years have seen drops and 2022 has been especially quiet.



Metrics for BioBus as of December 31, 2021

- Submissions since inception: 74
- Articles published since inception: 45
- Acceptance rate since inception: 61%

Most viewed articles (May 2022):

- Competitive Advantage for the Forest-based Sector in the Future Bioeconomy (36)
- A Visual Assessment of Cross-laminated Timber Structures in Austria (21)

BioProducts Business – Changes to Aims and Scope

Existing Description	Proposed Description
<p>BioBus is dedicated to advance theoretical and practical understanding of wide-ranging business topics related to wood products, bio/renewable products, and non-wood products and services. The journal publishes timely, rigorous, technically sound, and scientific manuscripts. It strives to disseminate new knowledge bridging the scientific and professional communities. By achieving these aims it is the top-tier, high impact journal in the field.</p>	<p>BioBus is dedicated to advance theoretical and practical understanding of business topics related to a wide range of biomaterials and bioproducts that constitute the primary industry sectors of the bioeconomy, including a suite of offerings such as wood products, agricultural products, non-timber forest products and other ecosystem services. The journal publishes timely, rigorous, technically sound, and scientific manuscripts. It strives to disseminate new knowledge bridging the scientific and professional communities. By achieving these aims it is the top-tier, high impact journal in the field.</p>
<p>The journal welcomes empirical and theoretical contributions covering both the</p>	<p>The journal welcomes empirical and theoretical contributions covering both the</p>

<p>micro (firm level issues) and macro environments (issues spanning social, technical, economic, and policy domains) surrounding a wide range of businesses and enterprises focused on lignocellulosics.</p>	<p>micro (firm level issues) and macro environments (issues spanning social, technical, economic, and policy domains) surrounding a wide range of businesses and enterprises focused on biomaterials, bioproducts, and affiliated services.</p>
<p>All accepted papers enhance knowledge covering domains such as marketing, management, international business, entrepreneurship, innovation, strategy, human resource management, sustainability, ownership, social and environmental justice, economic development, and policy.</p>	<p>All accepted papers enhance knowledge covering domains such as marketing, management, international business, entrepreneurship, innovation, bioeconomy, strategy, business models, human resource management, sustainability, ownership, social and environmental justice, economic development, and policy.</p>
<p>The journal accepts four types of manuscripts – empirical, synthesis, research notes, and editorials. All submitted scientific manuscripts should have a solid basis in theory and be supported by a meaningful set of background literature. Manuscripts submitted to the journal are expected to be rigorous and steeped in the relevant literature. Previously published manuscripts or manuscripts under review with other journals will not be accepted for review.</p>	<p>The journal accepts three types of manuscripts – empirical, synthesis, and commentaries. All submitted scientific manuscripts should have a solid basis in theory and be supported by a meaningful set of background literature. Previously published manuscripts or manuscripts under review with other journals will not be accepted for review.</p>
<p><i>Empirical manuscripts:</i> These manuscripts are essentially based on data. Manuscripts rooted in both quantitative and qualitative traditions are welcome.</p>	<p><i>Empirical manuscripts:</i> Data-based, quantitative or qualitative manuscripts are welcome.</p>
<p><i>Synthesis manuscripts:</i> These are designed to consolidate knowledge in a particular research area. A thorough literature search and selection process should be carefully documented and justified. These manuscripts lead to a new understanding of existing knowledge and may include development of proposed frameworks or models to guide further research.</p>	<p>No proposed change.</p>
<p><i>Research Notes:</i> The journal also publishes communications in the form of research notes or comments from readers on published papers or current issues. Research notes may also present methodological commentaries and work-in-process for constructive feedback from peers.</p>	<p><i>Commentaries:</i> Communications in the form of research notes on published papers or viewpoints from readers on contemporary issues. These may also present methodological commentaries and work-in-process for constructive feedback from peers.</p>

<p><i>Editorials:</i> These contributions, often invited, come from scholars, practitioners, entrepreneurs, and policy actors.</p>	<p>Proposed that we simply delete this category.</p>
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- **Digital Communication Coordinator Report** – Pipiet Larasatie (report given by Anne Wekesa)

(Progress from August 2021)

1. FACEBOOK

<https://www.facebook.com/SocietyWood/>

- During period of August 2021-June 25, 2022: reach 7,909 people
- 689 -> 832 likes (143 new likes/ 21 %)

2. INSTAGRAM

<https://www.instagram.com/societywood/>

- During period of August 2021-June 25, 2022: reach 2,967 accounts
- 1020 -> 1080 followers (60 new followers/6 %)

3. TWITTER

<https://twitter.com/SocietyWood>

- 544 -> 671 followers (127 new followers/23 %)

4. LINKEDIN

<https://www.linkedin.com/company/society-of-wood-science-and-technology>

- 936 -> 1297 followers (361 new followers/38 %)

Hashtags:

- #societywood -> SWST
- #wfsjournal -> Wood and Fiber Science Journal
- #biobusjournal -> BioProducts Business Journal
- #swstic -> SWST International Convention
- #swst2022 -> -> SWST IC 2022

- **Committee Reports**

- a. **Education and Accreditation** - Chair, Tamara Franca; members: Rupert Wimmer, Eric Hansen, Bob Smith, Raphaela Hellmayer, Judith Gisip, Hongmei Gu, Manja Kitek Kuzman, Henry Quesada, Francesco Negro.

The chair contacted Rupert and Andreja about the revision of the Handbook, which is still ongoing. During the last Board meeting it was proposed to modify the handbook, particularly to open the Accreditation to Master Degree. Andreja said that the University of Primorska, Slovenia, would be interested in taking the accreditation process for its Master Degree. 12 Universities are accredited to date, so even adding one University would represent a relevant percentage increase.

Annual reports have been collected. Emails have been sent to Program Heads to remind them that sending reports is due each year, and missing reports can jeopardize the accreditation.

Last December we sent around 50 emails to European Universities to promote SWST Accreditation. We did receive only one response, negative, from UGhent, Belgium. This confirms the idea that promoting Accreditation should be made through direct contacts and relations. So, a target for the next months can be trying to promote by personal contacts.

- b. **Membership** – Chair: Benedikt Neyses; Members: Tahiana Ramananantoandro, Fred Franca, Jerry Oppong Adutwum, Fabricio Goncalves, Mariapaola Riggio, Jan Tippner, Francesco Negro, Nan Nan, Esther Baas, and Tammi Franca

The two tasks for this committee were to:

1. Continue to contact institutions and promote student chapters. It is a way to increase student participation.
2. Explore the idea of a Student Chapter Meeting of all chapters (maybe during our convention)

Board liaison contacted the chair, and regarding student chapter, relevant universities should be contacted and informed about the benefits of having a becoming a SWST member and an active student chapter.

Regarding the second point, the chair agreed that it is a very good idea to have such a general meeting with active chapter during the conventions. The chair stated that it doesn't necessarily have to be specific to "student chapters", because students from outside the US might not be familiar with that system.

The recently published article "SWST Student Chapters: a valuable means of broadening student perspectives in wood science and technology" is a good guide for prospective advisors and chapters.

- c. **Emerging and Critical Issues** – Chair: Rajat Panwar; Members: Jean-Michel Levan, David DeVallance, Wim Willems, Ubong Udoakpan, Meike Siegner, Hongmei Gu

This document summarizes key activities and recommendations of the SWST Committee on Emerging and Critical Issues.

Task Description

The global wood sector faces a suite of promising opportunities that can help generate change at societal and planetary levels. Forests, and the goods and services they provide, are an influential tool for advancing sustainability transitions in critical sectors like energy, transportation, consumer goods, and green building. Success in these innovation processes, however, requires proactive efforts to tackle the sectors' ongoing challenges in global forest value chains. It is critical that efforts to advance the forest-based circular bioeconomy are accompanied by solutions that contribute to the improvement of forest ecosystems and biodiversity conditions, and help decrease the vulnerability of forest-dependent Indigenous and rural communities around the world.

SWST, as an organization that champions global leadership in wood science and technology research and scholarship, is well-poised to further expand its knowledge transfer activities,

contributing to innovation opportunities in wood around the world with local, regional, and global networks and organizations in sustainability, economic, and technology fields.

It is against this backdrop that this Committee has assembled the following list of additional stakeholders in *three Critical and Emerging Issues* categories. The list is meant to support SWST in its continuous effort to expand relations with leaders in academia, communities, civil society, government, industry, and policy to advance innovation in wood and promote sustainability in forest ecosystems and local livelihoods.

I. The built environment: next frontier of global climate action

Climate scientists are increasingly drawing attention to the issue of human shelter as a critical component in the fight against global warming (Zhong et al., 2021). Traditionally, green building technology mainly revolved around operational efficiency, however, there is now growing focus on achieving reductions in embodied carbon (Elhacham et al., 2020), specifically bio-based construction materials as a climate solution; the climate benefits of sequestering carbon in harvested wood products, and structures made of bamboo, straw, or loam (Churkina et al., 2020). Leading the green building wave in the context of biobased materials is “mass timber”, a technology which the SWST has helped spearhead at the global level. Thanks to practice and scholarship within the SWST community, mass timber building science could be bridged with the climate benefits discussion, notably in the field of whole building LCA (Gu et al., 2021). Today, especially with the last COP26 in Glasgow, the “tall wood” discussion has officially entered the realm of high-level fora on the future of human shelter in a warming world. Never, since the first climate talks were held in Rio in 1992, have environmental impacts of human habitation and shelter ranked as high on the [program agenda](#) and in [announcements made](#). The private sector in particular is making headway, showcasing mass timber technology as part of official climate strategies in corporate headquarter architecture (Siegener & Searcy, 2021). Coalescing with COP26, are a number of newly created organizations and built-environment focused initiatives that SWST might want to forge stronger connections and alliances with in the context of low-carbon building technology more broadly, and mass timber innovation specifically:

- [World Green Building Council \(WGBC\)](#)

UN level organization for sustainable construction. Organized major portion of built environment component at COP26. Emerging focus on bio-based building materials (research, funding, global network and partnerships)

- [BUILTBYNATURE](#)

Newly founded Think Tank for the Built Environment by the Dutch Laudes Foundation. Explicit mandate to advance science, policy, and knowledge in the use of wood as preferred building materials in urban contexts.

- [Bauhaus der Erde](#) (Bauhaus Earth)

German-founded advocacy group of climate scientists, architects, engineers, and policy officials, promoting mass timber in urban construction. Organization has strong affiliations with Potsdam Institute of Climate Research under former leadership of Prof. Dr. Joachim Schellnhuber (a lead author of seminal study on buildings as global carbon-sink by Churkina et al. 2020).

- [International Association of Mass Timber Construction](#)

Recently founded. First global association for industries in mass timber construction. Strong focus on advocacy for ‘wood first’ policy and mass timber building standards (Proclaim-Certified Mass Timber Buildings Standard).

For discussions on human green building benefits (biophilia), embodied carbon, and mass timber technology/prefab more broadly, the SWST might want to target interdisciplinary opportunities at the intersection of wood science field and sustainable engineering/building science journals, such as *International Journal of Sustainable Construction Engineering, Construction Management & Economics, as well as Construction Innovation*.

II. Post-pandemic value chains and the wood sector

Relief came sooner than expected for many in a covid-19 plagued world. Thanks to ground-breaking science, vaccine rollout took its course since late 2020. Yet, the aftermath of the pandemic is hitting the world rough and brute. Months of lockdowns triggered supply chain turbulences of unparalleled magnitude; they drove up the costs of wood products to extreme heights amid the unprecedented surge in home improvements and worker shortages. In the aftermath of the pandemic, inflation is now increasing and is poised to set the world on a course of further volatility and uncertainty. In addition, climate change, and its relation with increased flood and fire events, creates logistical challenges for the industry in many countries around the world, and Russia’s invasion in Ukraine is set to cause further commodity market disruptions in the months to come.

The immense cumulation of challenges and conflicts in the post-pandemic era spurs academics, practitioners, and interest-based organizations, more than ever, to explore concepts around resilience and sustainable futures, shaping dialogue in interdisciplinary fora on how a post-pandemic world can emerge stronger, more effective, fair, and sustainable.

There might be opportunities for SWST to forge collaboration with scholars in management field, as well as international development, on the subject of post-pandemic resilience. The special issues below may offer inspiration in that regard:

Panwar, R., Pinkse, J., & De Marchi, V. (2022). The Future of Global Supply Chains in a Post-COVID-19 World. *California Management Review*, 64(2), 5–23.

Leach, M., MacGregor, H., Scoones, I., & Wilkinson, A. (2021). Post-pandemic transformations: How and why COVID-19 requires us to rethink development. *World Development*, 138, 105233.

Of interest may also be the call by SSHRC research council Canada on post pandemic recovery, which may inspire scholars to collaboration interdisciplinary with colleagues in other fields.

<https://www.sshrc-crsh.gc.ca/funding-financement/nfrf-fnfr/special/2022/competition-concours-eng.aspx>

The EU’s Next Generation plan offers more than 600 billion Euros in funding for industry, business programs, research, and cross-sector initiatives and partnerships.

<https://www2.deloitte.com/global/en/pages/about-deloitte/articles/next-generation-eu.html>

III. Shaping the ‘just transition’ to a circular forest bioeconomy

The potential of the wood sector in shaping the global sustainability agenda is undisputed. And yet, intense efforts are necessary to scrutinize new technologies and applications in wood for their sustainability benefits and risks. Examples, such as the recent decision by the [Dutch government](#) to end subsidies for low-grade heat from bio-based raw materials, or [coalitions](#) of researchers and activists calling for closer scrutiny of both positive and potentially negative environmental and socioeconomic impacts of innovations such as woody bioenergy, biotechnology, and mass timber.

What SWST could pursue in its partnership and research agenda is to strategically engage with youth, marginalized communities, and interdisciplinary research communities that bridge the wood science and technology field with work that highlights the voices of marginalized stakeholders in advancing the bio and circular economy.

International Forestry Students Association (IFSA)

<https://ifsa.net/>

Global organization of future forestry leaders, connecting students, young scholars, and global experts to discuss opportunities and challenges of forest sector sustainability and future of wood sector from the perspective of youth and young leaders.

JUST GLOBE

Justice and Politics in Global Bioeconomy (Just GLOBE) researches environmental justice, politics, policy discourses, power relations in the emerging bioeconomy.

<https://www.luke.fi/en/projects/just-globe>

[Indigenomics](#) Institute

Leadership and economic advisory forum. Organizes roundtables, conferences, and workshops on contemporary issues in business and sustainability from an Indigenous perspective. The institute held the first conference on Indigenous bioeconomy.

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- d. **Strategic Initiatives** – Chair: Martin Nopens; Members: Michael Burnard, Reza Hosseinpourpia, Mark Rudnicki, Chad Niman, Azzeddine Oudjehane

The committee continues to work out details for an Innovation Award.

New Business

Henry Quesada was officially welcomed as the next president of the SWST by exiting President Rupert Wimmer. His first action as President was to thank Rupert for his service over the last year and delivered a plaque to him. Then the new President highlighted his working plan for the next year. He will survey the SWST membership to get a better understanding of the issues, problems, and opportunities the membership and the society might be facing for the upcoming years. He also proposed to increase the visibility of the society by increasing communication. Another action item highlighted by the President was to support the transition process of the upcoming Executive Director. Lastly, he mentioned that he will continue to support SWST accreditation process and encourage the Universities attending the conference to consider accreditation by SWST.

Upcoming SWST Conventions

- 66th SWST International Convention, June 25-30, 2023, Asheville, North Carolina, USA
- 67th SWST International Convention, July 2024, Slovenia
- 68th SWST International Convention, 2025 - North America
- 69th SWST International Convention, 2026 – International – Bids are welcome.

Respectfully submitted,



VICTORIA L. HERIAN, Executive Director