

ISSUE

02

December 2024

IAWS Bulletin



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Message from the President

Dear Fellows of the Academy,



I hope this letter finds you in good health and high spirits. I am writing to update you on several important matters concerning our Academy.

Firstly, the Academy just finished the this years voting process for inducting new

Fellows. We are fortunate to have nineteen excellent candidates this year. Please be reminded that although the deadline has passed by the time you read this, your participation in this process is highly valued and essential for upholding the standards and legacy of our Academy.

Additionally, I am pleased to announce the conclusion of our annual PhD Award competition. This year, we have selected three outstanding winners, whose names will be announced soon. The decision was particularly challenging due to the exceptional quality of the theses submitted. Our heartfelt congratulations go out to all participants for their scholarly contributions and dedication.

Looking ahead, I am excited to share that the Academy is planning another successful session, to be sponsored during the joint convention of the Forest Products Society and the Society of Wood Science and Technology. This event will be held in Fort Collins, Colorado, from June 15-20, 2025. Please stay tuned for more information regarding this stimulating gathering of minds. If you would like to join us by presenting your research during the Academy's session, please contact directly our Secretary, Fellow Rupert Wimmer.

Lastly, it is with a heavy heart that I inform you of the passing of one of our esteemed Fellows, Olaf Schmidt, last September. Olaf was internationally renowned for his groundbreaking research on wood biodeterioration and for his dedication to mentoring countless young scientists. His contributions to the field and the Academy will be greatly missed.

Thank you for your continued commitment and contributions to the IAWS. Please do not hesitate to reach out if you have any questions or need further information on any of these topics.

Stavros Avramidis

December 1, 2024

Dear Fellows of the Academy,



to everyone reading the second issue of our 2024 Bulletin, this publication again aims to strengthen our connections, keep you informed, and report on ongoing Academy activities.

As we move forward, it's essential to continually evaluate our activities—considering whether some initiatives serve us well or if new ones might be more effective. I'd like to invite feedback: should we continue producing this Bulletin twice a year? Do you find it useful? Do you regularly read it, or would another form of communication be preferable? Your input would be greatly appreciated!

As a fully voluntary organization, we have no paid personnel, which brings both benefits and challenges. One downside has been an outdated Fellow database. Recently, I reached out to many of you to clarify your current status within the Academy, such as lifetime memberships and active participation. I'm grateful to all who provided updates!

Please continue sharing updates on retirements, changes in contact information, recent achievements—published books, new positions, awards, and more. This information helps us all stay connected.

Wood remains a vital, sustainable material with a significant role in today's society, and wood science is essential in driving this progress. If you have ideas on how we can be more active, innovative, or supportive of each other, I'd be eager to hear them.

Rupert Wimmer, Secretary and Bulletin Editor

The IAWS provides recognition to outstanding thesis/dissertation research at the PhD level by students throughout the world. The PhD Award was again opened to receive nominations and/or applications, with the due date August 15, 2024.

The award is open to anyone (not limited to IAWS Fellows).

The rules for PhD award competition are:

- 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.
- The submission shall be no more than 2 pages of an extended abstract (in English) of the dissertation, a one-page CV of the student, and a recommendation letter from the student's advisor
- The submission can be by the student and/or the student's advisor.
- The thesis/dissertation must have been completed within one year prior to the yearly announcement.
- The documentation shall be sent by email to the president and secretary

As soon the nomination period was closed the IAWS board members (<https://www.iaws-web.org/organisation/academy-board/>) started with the process of evaluation to select the this years awardees. In 2024 call has received fourteen applications. The President with the IAWS board members agreed that all submitted dissertations were eligible and at high standard. The final ranking was as followed:

Name	Evaluation
Dr. Gabriella G. Mastantuoni	1st place
Dr. Xuehe Jiang	2nd place
Dr. Yue Wang	3rd place

Letters with the news have been sent to the candidates and their nominators, and the President of IAWS awarded the first, second and third place winners.

Afterwards, the IAWS invited the 1st, 2nd and 3rd place winners to attend the 2025 Forest Products Society—International Convention of the Society of Wood Science and Technology (SWST) Joint Convention conference, which will take place from June 15-20, 2025 in USA. The Academy will cover part of the costs for attending the conference.

We cordially congratulate the awardees!

Shuheng Pang, Chair of the IAWS Board



Gabriella Mastantuoni

R&D Engineer

Age: 31

Nationality: Italian

Address: Ymergatan 13C, Uppsala



0790503148

gabriellamastantuoni@hotmail.it

www.linkedin.com/in/gmastantuoni

Dr. Mastantuoni completed her dissertation in 2023, at the Department of Chemistry at the KTH Royal Institute of Technology, entitled “Engineering of lignin in wood towards functional materials,”

Abstract:

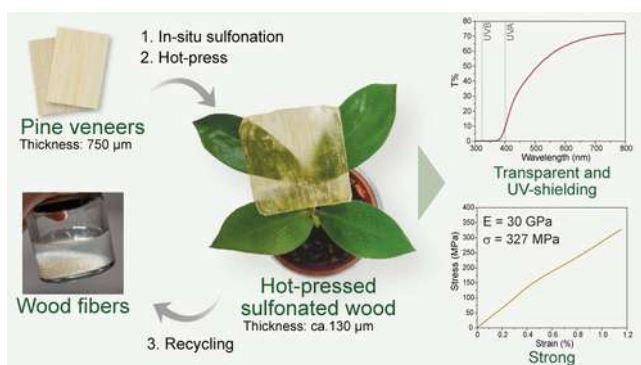
Over 270 million years of evolution, wood has developed a hierarchical structure optimized for nutrient transport and mechanical stability. Its orthotropic nature offers inspiration for designing advanced materials. Recent approaches have adapted this structure for innovative applications through top-down modifications, emphasizing structural integrity.

This thesis investigates two modification techniques for softwood Scots pine: complete lignin removal and in-situ lignin modification. Preventive crosslinking of

Delignified wood veneers were hot-compressed into transparent films with 71% optical transmittance, exceptional tensile strength (449 MPa), and Young’s modulus (50 GPa). Lignin-retaining densified films exhibited UV-blocking and recyclability into fibers. Sulfonated wood integrated with conductive polymers like PEDOT:PSS and polypyrrole yielded biocomposites with conductivity up to 203 S m^{-1} and pseudo-capacitance of 38 mF cm^{-2} , suitable for energy applications.

Tailoring wood chemistry and morphology produced wood foams with high permeability, ultimate strength (9 MPa), and Young’s modulus (364 MPa). When combined with PEDOT:PSS, these foams achieved uniform conductivity (215 S m^{-1}) and mechanoresponsive properties, demonstrating potential in sensing devices.

In-situ lignin engineering enhanced wood permeability, porosity, and compatibility with conductive polymers, offering versatile pathways for advanced material applications.



the polysaccharide matrix enabled full delignification while preserving cellular integrity. Alternatively, lignin was chemically modified via sulfonation, achieving a high negative charge ($375 \mu\text{mol g}^{-1}$) while retaining residual lignin.



Xuehe Jiang

University Hamburg, Germany,

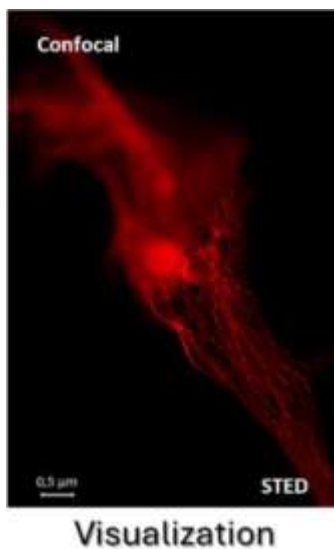
Email: xuehe.jiang@uni-hamburg.de

[www.linkedin.com/in/ xuehe-jiang](https://www.linkedin.com/in/xuehe-jiang)

Dr. Jiang completed her dissertation in 2024 at the Institute of Wood Science, University Hamburg, entitled “Shaping the Future: Surface-Modified Cellulose Nanofibrils (CNFs) for Multifunctional 3D-Printable Hybrid”

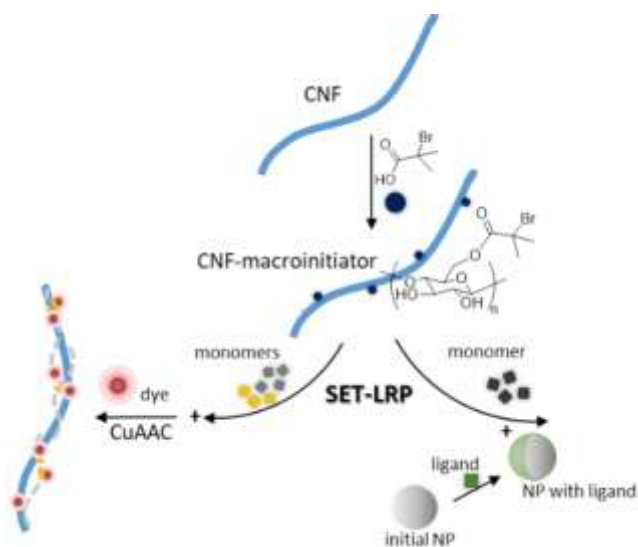
Abstract:

Cellulose nanofibrils (CNFs) are biodegradable, renewable, and biocompatible materials extracted from lignocellulosic sources using chemical, mechanical, or enzymatic processes. Mechanical methods produce CNFs in aqueous dispersions with hydroxy groups on their surface. These groups, while enabling chemical modifications, pose challenges like hygroscopicity, instability in organic solvents, and fibril aggregation.



This thesis explores a surface modification pathway for CNFs, starting with their conversion into macroinitiators (CNF-MI) in a single step, followed by Cu⁰-mediated radical polymerization (SET-LRP) to graft polymers onto their surface. This process allows tailoring CNFs for diverse applications by selecting suitable monomers.

The work is divided into four chapters. Chapter 1 reviews CNF production, surface modification, and applications. Chapters 2 and 3 detail studies on CNF modifications. Chapter 2 focuses on creating a multifunctional CNF platform, including producing CNFs, converting them into macroinitiators, grafting polymers, labeling with luminescent dyes, and studying their morphology. Chapter 3 explores in



situ crosslinking of CNFs with inorganic nanoparticles, such as UCNPs and GdF₃, to create hybrid materials with advanced properties. Chapter 4 summarizes findings and future prospects for surface-modified CNFs.



Yue Wang

KTH Royal Institute of Technology, Sweden

Email: yue4@kth.se

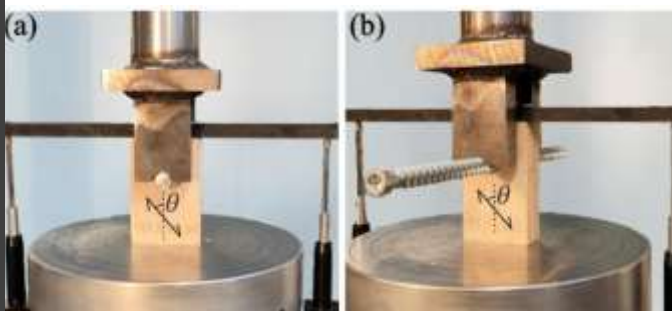
[www.linkedin.com/in/ xuehe-jiang](https://www.linkedin.com/in/xuehe-jiang)

Dr. Wang completed his dissertation in 2024 at the Building Materials Division, KTH Royal Institute of Technology, entitled “Mechanical connections using birch plywood as gusset plates in timber structures”, “



Abstract:

Birch (*Betula* spp.) is a hardwood widely found in the Northern Hemisphere. Birch plywood, known for its strength and stiffness, shows potential for structural uses, including timber connections like truss nodes or portal frame corners. These wood-based connections reduce environmental impact and improve workability compared to steel gusset plates. However, limited knowledge exists on their mechanical behavior and failure mechanisms, which this thesis addresses.



Embedment tests at different load-face grain angles (θ) with a) dowel and b) self-tapping screw.

The research begins by studying the embedment behavior of dowel-type fasteners in birch plywood at various load-to-face grain angles. Tests with dowels of three diameters and screws of one diameter showed negligible effects of loading direction on embedment strength and stiffness, beneficial for structural design.

Next, the thesis focuses on designing moment-resisting and uniaxial tension joints. Varying element geometries and fastener layouts helped verify

analytical models predicting timber capacity. These models utilize combined load checks from Eurocode 5 and calculate fastener group capacity using polar moments of inertia.

The final section tests joints under real-life loading scenarios. Frame corners with varying plywood thicknesses and fewer fasteners were analyzed to study stiffness and failure modes. Analytical models reasonably predicted capacity, though plastic yielding of fasteners occurred when moments exceeded post-elastic limits.

The research extends to full-scale glulam trusses and frames. Truss failures occurred at plywood joints due to combined stresses, while portal frames failed with longitudinal cracks in glulam, similar to semi-scale tests. Ongoing analyses aim to develop robust analytical models for large-scale timber structures using plywood-screw-glulam connections.



Plywood as connection plates on a timber truss joint



As the Editor-in-Chief of *Wood Science and Technology* (WST), I would like to draw attention to an agreement established during the founding years between the Academy and Springer Nature. This agreement designated WST as "the journal" of our Academy, as indicated by its subtitle on each volume and its mention on the IAWS homepage. Historically, WST also served as a primary platform for Academy news and announcements, with two pages per issue reserved for this purpose. While this role has been replaced by our electronic newsletter, another foundational practice remains: the **Editorial Board** (EB) should primarily consist of **IAWS Fellows**.

In light of this, I **am reaching out to our Fellows**. In consultation with Springer Nature, we plan to appoint new EB members in January 2025 to strengthen the journal's manuscript selection and development processes. We seek senior professionals with recognized expertise in their fields, representing the breadth of past and emerging wood science disciplines, as well as a diversity of nationalities reflecting WST's global scope.

EB members will be expected to:

1. Advise the editors-in-chief on critical manuscript decisions.
2. Suggest emerging topics to expand the journal's scope and impact.
3. Propose and serve as guest editors for special issues.
4. Leverage professional networks to recruit high-quality manuscripts.
5. Conduct a minimum number of peer reviews annually.

This time, instead of directly contacting individuals, **we invite expressions of interest from our Fellows!** If you are **motivated to join the EB** for a four-year term, please email richter@hfm.tum.de by **December 31, 2024**. Include three to five keywords describing your expertise or ideas for advancing the journal. Current EB members (see: [WST Editorial Board](#)) are also encouraged to indicate their interest in continuing their mandate.

Based on the feedback, the editors-in-chief will propose a new Editorial Board that reflects our vision for the future of WST. We look forward to your contributions to sustaining and enhancing the journal's excellence !

Klaus Richter, WST Editor

WST Journal metrics, based on the Publishers report 2023

Journal Impact Factor 2022: **3.5**

5 years Impact Factor 2022: **3.1**

Cite Score Index: 2022: **4.9**

Number of Downloads 2023: **245.859**

Overall author satisfaction 2023: **71%**

70th Anniversary of Holzforschung München



Holzforschung München (HFM, Wood Research Munich), founded in October 1954, is one of IAWS's oldest affiliate members. Initially established as the Institute for Wood Research and Wood Technology, its research has covered wood biology, anatomy, pathology, chemistry, physics, industrial processing, mechanical technology (including fire behavior), and testing of wood and composites.

Over the past 70 years, HFM's research and reputation have been shaped by **four professors**—all **IAWS Fellows and editors-in-chief of *Wood Science and Technology***—and their teams:

- **Prof. F. Kollmann (1954-1973)**: Advanced the physics, mechanics, chemical technology, and industrial processing of wood.
- **Prof. H. Schulz (1973-1993)**: Linked forestry with wood research to improve timber quality and resource efficiency.
- **Prof. G. Wegener (1993-2010)**: Promoted wood as a building material, paper fiber source, and base for innovative chemicals, emphasizing sustainability and climate protection.
- **Prof. K. Richter (2011-2023)**: Innovative wood adhesion technologies, life cycle assessments, and cascading use of wood products.



Holzforschung München's xylotheque includes over 10,000 wood samples and 22,000 thin-sections from 5,000+ species. Organized by botanical family, it supports research, teaching, and wood species identification, aiding enforcement of the Wood Species Protection Act.

Current HFM research focuses on wood extractive chemistry, hardwood utilization strategies, machine grading parameters, structure-property relationships in wood products, deformation and fracture behavior, aging effects, fungal degradation of lignocellulose, fungus-based composites, and functionalized woody tissues.

To celebrate its 70th anniversary, HFM hosted an open house on **November 9, 2024**, showcasing its diverse research and xylotheque collection to neighbors, families, industry partners, and students. During the event, *Prof. van de Kuilen*, acting director, announced that as of November 1, 2024, all **three professorships at HFM are now fully staffed** with

Prof. Philipp Benz
Fungal Biotechnology
in Wood Science



Prof. Michaela Eder
Wood Science and
Functionalization

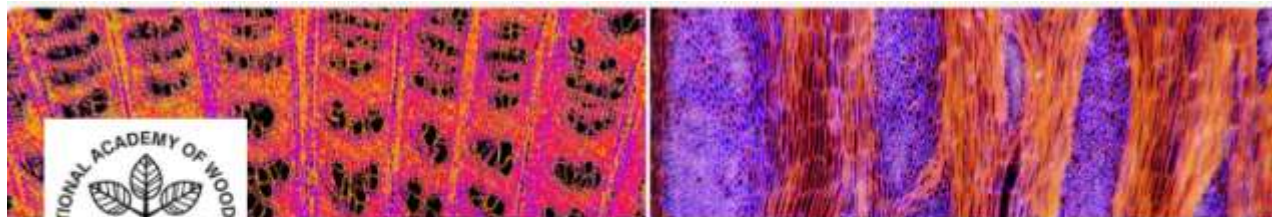


Prof. Jan-Willem van de Kuilen
Wood Technology



Klaus Richter and Gerd Wegener

LinkedIn is a leading professional networking platform that connects individuals and organizations worldwide. It allows users to create professional profiles, highlight skills and experiences, and engage with the community. Widely used for career development, job searching, and business networking, LinkedIn offers features such as job postings, company pages, professional groups, and content sharing. It serves as a vital tool for **building professional relationships, expanding networks, and staying updated** on industry trends. Recognizing its value, IAWS has launched a LinkedIn page to enhance communication and strengthen its outreach efforts.



International Academy of Wood Science (IAWS)

Advancing Global Excellence in Wood Science

Non-profit Organizations · Tulln, Niederösterreich · 71 followers · 2-10 employees

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Overview

The International Academy of Wood Science is a nonprofit assembly of wood scientists, recognizing all fields of wood science with their associated technological domains, and securing a worldwide representation.

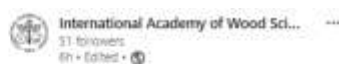
We invite you to join our [LinkedIn page](#) !



All active IAWS members were invited to participate in the election of new Fellows. Of the 19 nominated candidates, 13 received more than 30% of ...more



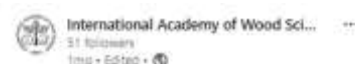
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All active IAWS members were invited to participate in the 2024 election of new Fellows. Of the 19 nominated candidates, 13 received more than ...more



6



Prof. Ingo Burgart [#ethzurich](#) delivering his Academy Lecture, entitled "Wood materials - potentials and limitations", within the IAWS organized session: ...more



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AcadeMY NEWS



Dr. Robert Ross recently retired from the USDA Forest Products Laboratory (FPL) after 35 years of leadership roles. Now a volunteer and working through NEW Solutions (ACES), his research focused on nondestructive evaluation (NDE) technologies for wood products and structures.

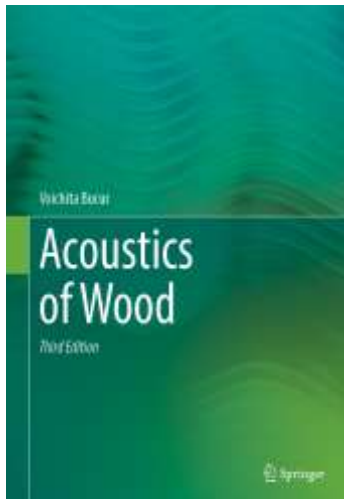
During his career, he contributed to diverse projects for government agencies, including inspecting the USS Constitution, assessing post-hurricane Katrina structures, and evaluating historic viewing towers. He also supported private sector projects, such as evaluating sports floors, a 2,500-year-old mummy coffin, and relics from the True Cross.

Dr. Ross has authored over 360 publications, holds 31 patents, and contributed to technical books. He served as Technical Editor for *Wood Handbook: Wood as an Engineering Material* and is a Fellow of the International Academy of Wood Science. He holds degrees from Michigan Technological University and Washington State University and holds faculty positions at Michigan Tech and Mississippi State University.

As a passionate volunteer, he assists organizations like St. Coletta of Wisconsin and enjoys trout fishing with individuals with intellectual and developmental disabilities, helping over 100 participants catch 250 pounds of trout. The academy is especially thankful that Bob will soon take over the IAWS treasurer role from Fellow Howard Rosen. **The academy is wishing all the best!**

If you have any NEWS, please share!

AcadeMY NEWS



The renowned book by Fellow **Voichita Bucur** will release its third edition in January 2025. This unique work explores wood properties in architecture, engineering, acoustics, and musical instruments. It introduces environmental acoustics, methods for evaluating wood's elastic behavior, and assessing wood quality.

Since the first edition in 1995, interest in wood acoustics has grown significantly, prompting substantial updates. The new edition includes 159 additional references (bringing the total to over 1,000), expanded chapters, and a new section on "acousto-ultrasonics." It also incorporates mathematical theory on wave propagation in orthotropic solids to aid readers in understanding the subject's physical principles.

Trends in Plant Science



Volume 29, Issue 1, January 2024, Pages 20-31

Opinion

Mother trees, altruistic fungi, and the perils of plant personification

David G. Robinson^{1,2,✉}, Christian Ammer³, Andrea Polle¹, Jürgen Bauhus⁴, Roni Aloni⁵, Peter Amthofer⁶, Tobias I. Boskin⁷, Michael R. Blatt⁸, Andreas Bolte⁹, Harold Bugmann¹⁰, Jerry D. Cohen¹¹, Peter J. Davies¹², Andreas Draguhn¹³, Henrik Hartmann¹⁴, Hubert Hasenauer¹⁵, Peter K. Hepler¹⁶, Ulrich Kohnle¹⁷, Friederike Lang¹⁷, Magnus Löf¹⁸, Christian Messler¹⁹, Torbjörn Näsholm²⁰

This publication is co-authored by our **Fellow Roni Aloni**, and it analyzes the claims made in two highly popular books, which promulgate the idea that trees possess a number of human characteristics for which there is no sound scientific evidence. A critical evaluation of the mother tree hypothesis also reveals that much of the data given in support of this concept is flawed and perhaps even non-existent. This concept is also incompatible with many well-known observations on the growth of forest trees.

Moreover, there is no evidence from peer-reviewed published studies to support the claim that mature trees in forests communicate preferentially with offspring through a common mycelial network.

It also remains unclear whether carbon compounds transmitted in the mycorrhizae actually enter the root tissue of the receiver tree. In any event, numerous studies indicate that the amounts of carbon transferred are physiologically insignificant.

If you have any NEWS, please share!

AcadeMY NEWS



The 2025 Plants With A Past InsideWood Calendar !

A calendar for anyone who likes fossil or modern wood, issued by our Fellow **Elisabeth Wheeler**: **The 2025 Plants With A Past. Inside Fossil Wood calendar**, available from Lulu Press, a print-on-demand press. They have online stores for US, Canada, Europe, Great Britain, and Australia.

[Order here !](#)

If you have any NEWS, please share!

AcadeMY NEWS



Yoon Soo Kim and Tomoyuki Fujii becoming IAWA Honorary Members

Fellows Prof. Yoon Soo Kim (South Korea) and Dr. Tomoyuki Fujii (Japan) were recognized as Honorary Members of the **International Association of Wood Anatomists (IAWA)** during the 10th Pacific Regional Wood Anatomy Conference (PRWAC) held in September in Asahikawa, Japan. This prestigious recognition celebrates their exceptional dedication to advancing wood anatomy in the Pacific region, their unwavering support and mentorship of young scientists, and their outstanding contributions to the study of wood cultural heritage in East Asia. The honor had not been awarded since 2002, when it was bestowed upon the late Prof. Kazumi Fukazawa (IAWS Fellow). **Congratulations !**



Tomoyuki Fujii (left) Yoon Soo Kim (right) receiving the recognition

If you have any NEWS, please share!

IAWS at the 67th SWST International Convention, Slovenia 2024

by Katarina Čufar & Rupert Wimmer

IAWS was represented at the 67th International Convention of the Society of Wood Science & Technology (SWST). The congress entitled "Advancing regenerative sustainability with wood science" took place from **30 June to 5 July 2024** in Portorož, Slovenia.

It was successfully hosted by the **InnoRenew CoE** research institute and the University of Primorska, Slovenia. The coordinator of IAWS activities at the conference was Fellow **Rupert Wimmer**.

The congress brought together more than 190 researchers, academics and industry representatives from all over the world. During the opening ceremony, the travelling exhibition "Women in Science" was presented. It honours outstanding women in wood research. Prof. Dr. **Andreja Kutnar**, Director of the InnoRenew CoE, and IAWS fellow, opened the congress with the keynote speech "**Where is wood science going?**", in which she addressed the future of wood research.

Over the four days of the congress, scientists gave more than **170 presentations** on the latest developments in forest innovation, wood science, new uses of wood in the built environment, positive environmental impacts of wood use, sustainability, new approaches to education in the wood sector, the future of living engineering materials and the socio-economic impact of sustainable practises in the wood sector.

The hosts also organised a round table and discussion with the editors of the Handbook of Wood Science and Technology published by Springer. Editors and also IAWS Fellows, **Peter Niemz and Alfred Teischinger**, presented the 2069-page handbook, published in 2023, which provides a comprehensive and internationally important overview of wood science and technology. It describes the basics of wood science and the various aspects of wood processing with the core concepts of wood application, quality and life cycle

assessment. The book contains a compilation of basic wood parameters and data as well as a glossary of terms.



The editors and IAWS Fellows **Peter Niemz and Alfred Teischinger** presenting the Handbook of Wood Science and Technology, published by Springer.



Andreja Kutnar, Director of InnoRenew CoE, Professor at the University of Primorska, host and keynote speaker on site and IAWS Fellow with the handbook

The **IAWS** organised a special session to introduce the IAWS to a wider audience in the field of wood science and technology. Prof. Dr. **Ingo Burgert** gave the Academy Lecture, followed by invited talks from the four IAWS fellows **Katarina Čufar**, **Bohumil Kasal**, **Markus Rüggeberg** and **Andreas Krause** as well as the holder of one of the IAWS PhD awards Dr. **Juan Li**.

The detailed programme of the IAWS session was:

THE SIGNIFICANCE OF BASIC WOOD SCIENCE IN A SUSTAINABLE WORLD, chaired by Rupert Wimmer (BOKU, Austria) :

Ingo Burgert (ETH Zurich, Switzerland):

"Wood materials - potentials and limitations" (Academy Lecture)

Katarina Čufar (University of Ljubljana, Slovenia):

"Wood anatomy and dendrochronology - a long tradition and current challenges"

Bohumil Kasal (Fraunhofer WKI, Germany):

"Materials from renewable resources - great future or just a modern trend? Are they really sustainable?"

Markus Rüggeberg (Technical university in Dresden, Germany):

"The dimensional instability of wood - a new look on an old problem"

Andreas Krause (Thünen Institute, Germany):

"Swelling of wood cell wall - in 3D at high resolution"

Juan Li (Fraunhofer WKI, Germany):

"Aging of wood as a construction material measured by atomic force microscopy"



Enjoying Fellowship at the IAWS Dinner



IAWS Vice-President Ingo Burgert presenting the Academy Lecture



Rupert Wimmer, organizer and moderator of the IAWS session



Katarina Čufar and Rupert Wimmer presenting the IAWS rollup-poster

Upcoming Conferences

ISWST 2025

International Symposium on Wood Science and Technology
with the Session of 2025 World Wood Day Symposium
and The Seventh IUFRO Forest Products Culture Colloquium

March 17-19, 2025, Sendai, Japan



The **Japan Wood Research Society** invites all scientists interested and involved in various aspects of wood to the International Symposium on Wood Science and Technology 2025 at Sendai International Center, Sendai. The aim of the conference takes place from **March 17-19, 2025**, and brings together scientists working on wood, the sustainable and most promising biomaterial for the 21st century. **2025 World Wood Day Symposium** and the **Seventh IUFRO Forest Products Culture Colloquium** will also be held during the same period. The 1st Circular of the symposium is available from [here](#)



[InnovaWood General Assembly 2025](#), which will take place from **13-15 May 2025** in **Kastoria, Greece**. This is a [3-day program](#), including opportunities to connect, share ideas, and build new collaborations in our community of wood research, innovation, and education professionals.



The 26th [International Wood Machining Seminar](#), IWMS-26. The seminar will be held in Florence, Italy on **14. and 15. April 2025**, hosted by the University of Florence, Department of Agriculture, Food, Environment and Forestry (DAGRI). You are warmly invited to attend and contribute to IWMS-26, and to join the post-seminar industrial tour.

Upcoming Conferences



The **Wallenberg Wood Science Center** is delighted to welcome you to the upcoming [conference](#) on the research front of new sustainable materials from wood, in Stockholm, Sweden, **June 15 – 18, 2025**.



The **IRG56 meeting** of the International Research Group on Wood Protection will be held on **June 22-26, 2025** at the **Pacifico Yokohama Convention Center** in Yokohama, Japan.

15TH INTERNATIONAL CONFERENCE "DEVELOPMENT AND MODERNIZATION OF MANUFACTURING"
17th – 19th September 2025, Sarajevo, Bosnia and Herzegovina, [Homepage](#)

The Conference will promote and disseminate knowledge related to:

- Mechanical Engineering
- Wood Products Engineering and Design
- Electrical Engineering and Computing
- Technologies and Structures in Civil Engineering
- Textile Design and Technologies
- Law-Economics regulations and standardization
- Quality Assurance, Environment Protection and Sustainable Development

Deadline for the abstract submission: **1th April 2025**, Final paper submission: **6th June 2025**

5th World Teak Conference Kochi, Kerala, India 17-20 September 2025

Kerala will host the [5th World Teak Conference](#), entitled '**Sustainable Development of the Global Teak Sector – Adapting to Future Markets and Environments**'. This event will take place at Grand Hyatt, Cochin, Kerala during **17-20 September 2025** and will be hosted by Kerala Forest Research Institute and coordinated by the International Teak Information Network (TEAKNET) India.



The [International Conference on Wood Adhesives](#) is the premier technical conference on advances in the adhesion of wood and biomass. Industry representatives were the majority of the nearly 300 attendees in 2017 and 2022, evenly split between the U.S. and the rest of the world.



Pre-announcement: **International Conference "Wood Science and Engineering in the third Millennium" (ICWSE)**, will take place between **6 - 8 November 2025** in Brasov, the heart of Transilvania, Romania.

Topics covered:

- Wood Structure and Properties
- Wood Drying and Heat Treatments
- Mechanical Wood Processing and Surface Quality
- Wood-Based Materials
- Wood Preservation, Modification, Gluing and Coating
- Conservation-Restoration of Wooden Objects
- Furniture Design
- Wood Constructions
- Circular Economy in Wood Industry

Homepage will be launched in February 2025!

JOINT CONVENTION



**JUNE 15-20,
2025**
**FORT COLLINS,
COLORADO**

Dear International Academy of Wood Science Fellow:

The Academy is honored to sponsor an **IAWS Session** at the forthcoming joint convention of the Forest Products Society (FPS) and the Society of Wood Science and Technology (SWST), which will take place in Fort Collins, Colorado, from June 15-20, 2025.

We cordially invite you to present your research. We would be grateful if you could confirm your availability and willingness to participate in the session.

Please let us know as soon as possible so that we can formalize the program. The Academy will also host a dinner for all Fellows present at the convention.

Best regards,

Stavros Avramidis, PhD, FIAWS, FIMMM
President of the IAWS

Contact: [Stavros Avramidis](#) (President), [Ingo Burgert](#) (Vice President)

Journal Ranking—Wood Science & Technology (Google Scholar; by December 2024)

Categories > Life Sciences & Earth Sciences > Wood Science & Technology ▾			
	Publication	<u>h5-index</u>	<u>h5-median</u>
1.	Cellulose	<u>81</u>	107
2.	Journal of Bioresources and Bioproducts	<u>44</u>	139
3.	BioResources	<u>41</u>	51
4.	European Journal of Wood and Wood Products	<u>32</u>	41
5.	Journal of Renewable Materials	<u>31</u>	50
6.	Wood Science and Technology	<u>29</u>	40
7.	Wood Material Science & Engineering	<u>28</u>	39
8.	Holzforschung	<u>27</u>	32
9.	Journal of Wood Science	<u>26</u>	40
10.	International Association of Wood Anatomists Journal	<u>21</u>	31
11.	Journal of Textiles, Coloration and Polymer Science	<u>21</u>	30
12.	Nordic Pulp & Paper Research Journal	<u>20</u>	24
13.	Journal of Wood Chemistry and Technology	<u>19</u>	26
14.	Maderas. Ciencia y Tecnologia	<u>19</u>	25
15.	Floresta e Ambiente	<u>17</u>	26
16.	Wood Research	<u>17</u>	22
17.	Cellulose Chemistry and Technology	<u>16</u>	24
18.	Acta Facultatis Xylologiae Zvolen res Publica Slovaca	<u>14</u>	15
19.	Wood and Fiber Science	<u>13</u>	18
20.	Forest Products Journal	<u>12</u>	20

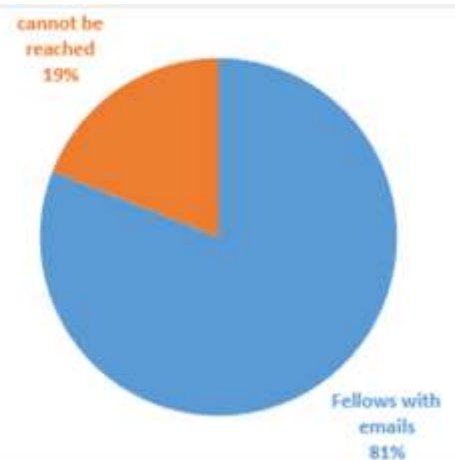
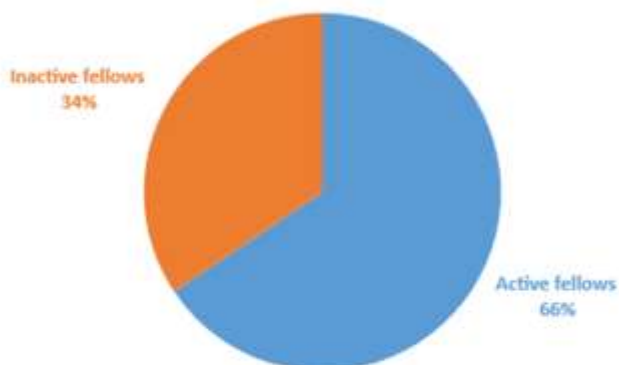
h5-index is the h-index for articles published in the last 5 complete years. It is the largest number h such that h articles published have at least h citations each. **H5-median** is based on H5-index, but instead measures the median (or middle) value of citations for the h number of citations.

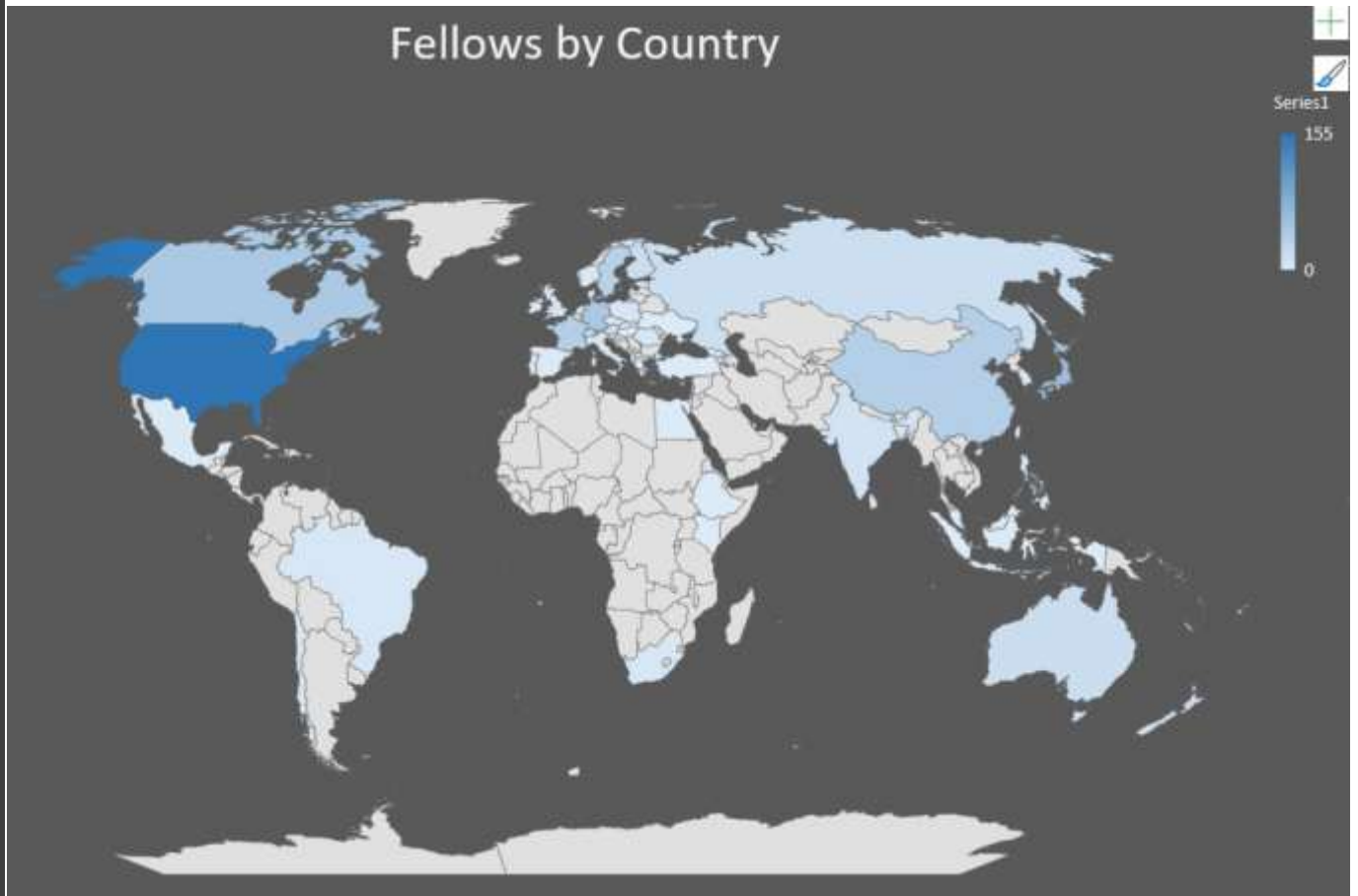
We have been updating our database, including direct outreach to Fellows—thank you to everyone who responded! Here are the latest figures:

Over the past 60 years, the Academy has elected **617 Fellows**, with **410 currently living**. Of these, **87% are male and 13% are female**, with an **average age of 72**. Over **65%** of Fellows are considered "**active**," meaning they either pay annual dues or have made a lifetime payment. Over **57%** of our Fellows are **retired**.

We have **valid email addresses for 81%** of Fellows and encourage everyone to provide updated contact information, particularly during retirement or other changes. Nearly **30% of Fellows participate in the annual voting** process, which is a strong engagement rate.

Male Fellows	356	87	%
Female Fellows	54	13	%
Active Fellows	267	65	%
Inactive Fellows	140	34	%
Lifetime fellows	175	43	%
Retired fellows	235	57	%
Fellows over 80	115	28	%
Fellows with emails	332	81	%
Cannot be reached	78	19	%
voted in 2023	110	27	%
voted in 2024	116	28	%
Average age - all	72		
Average age - males	73		
Average age - females	64		





Affiliated Members elected in 2021

BioProducts Institute, UBC
Zhejiang Agricultural & Forestry University

Affiliated Members elected in 2020

International Association of Wood Anatomists
Korean Society of Wood Science & Technology, Korea
South West Forestry University, China
National Institute of Forest Science, Korea

Affiliated Members elected in 2017

International Wood Culture Society, USA
Department of Wood Science – UBC, Canada

Fellows elected in 2024

Marius BARBU, Austria
Alan CRIVELLARO, Italy
Notburga GIERLINGER, Austria
Lidia GURAU, Romania
Hoon KIM, USA
Fangong KONG, China
Ahmed KOUBAA, Canada
Meng-Zhu LU, China
Roger MEDER, Australia
Fidel ROIG, Argentina
Zhaohui (Julene) TONG, USA
Pradeep VERMA, India
Wenji YU, China

Fellows elected in 2023

Stergios ADAMOPOULOS, Sweden
Dilpreet BAJWA, USA
Charlotte Gjelstrup BJORDAL, Sweden
Andreas KRAUSE, Germany
Kecheng LI, USA
Shengquan LIU, China
Lee Ann NEWSOM, USA
Yann ROGAUME, France
Markus RUEGGEBERG, Germany
Ge WANG, China

Fellows elected in 2022

Pavlo BEKHTA, Ukraine
Rowland BURDON, New Zealand
Laurent MATUANA, USA
Nicole STARK, USA
Yan XIAO, China

Fellows deceased in 2024

Arno SCHNIEWIND, USA
Pieter BAAS, The Netherlands
Graeme P. BERLYN, USA
Eiichi FUKADA, Japan
Olaf SCHMIDT, Germany

Fellows deceased in 2023

Walter LIESE, Germany
Benhua FEI, China
H Michael BARNES, USA
Detlef NOACK, Germany

Fellows deceased in 2022

Frank BEALL, USA
Günter SCHULTZE-DEWITZ, Germany
Björn HENNIMNGSSON, Sweden
Darrel D. NICHOLAS, USA
Terry Lee AMBURGEY, USA
Mikhail BALAKSHIN, Finland
Daniel GUITARD, France
Björn HENNINGSSON, Sweden

Fellows deceased in 2021

Edmone ROFFAEL, Germany
David GORING, Canada
Dieter ECKSTEIN, Germany
Chung-Yun HSE, USA
Dietrich FENGEL, Germany
Eero SJÖSTRÖM, Finland
Sherwin CARLQUIST, USA
Ellis B. COWLING, USA

Fellows deceased in 2020

Fritz SCHWEINGRUBER, Switzerland
Robert YOUNGS, USA
Eric ELLWOOD, USA
Guglielmo GIORDANO, Italy
Nils HARTLER, Sweden
A.H. NISSAN, USA

Affiliate Members

Affiliate Members shall be educational, research, industrial, or governmental organizations and individuals, who are actively engaged in carrying out or promoting research in wood science or the enhanced utilization of wood on the basis of scientific or technological principles and practices. The importance of Affiliates to the Academy is two-fold:

- The Academy derives direct contact with organizations and individuals actively engaged in the utilization of wood and wood products.
- The Academy receives financial support for its activities from these members.

Contact details are available on the IAWS website.

AFFILIATE MEMBERS LIST

- BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY/MYTISHCHI BRANCH , Russia, www.bmstu.ru/en
- BIOPRODUCTS INSTITUTE, UBC, Canada, <https://bpi.ubc.ca/>
- CHINESE ACADEMY of FORESTRY (CAF), China, www.caf.ac.cn
- CIRAD FORETS (French Agricultural Research Center for International Development), France, www.ur-bois-tropicaux.cirad.fr
- DEPARTMENT OF WOOD SCIENCE – UBC, Canada, www.wood.ubc.ca/
- ESB- ECOLE SUPÉRIEURE DU BOIS, France, www.ecoledubois.com
- FRAUNHOFER-INSTITUTE OF WOOD RESEARCH, Germany, www.wki.fraunhofer.de
- HOLZFORSCHUNG MÜNCHEN, Germany, www.holz.wzw.tum.de
- INTERNATIONAL ASSOCIATION OF WOOD ANATOMISTS, www.iawa-website.org
- INTERNATIONAL CENTRE OF BAMBOO AND RATTAN, China, www.icbr.ac.cn/en
- INTERNATIONAL WOOD CULTURE SOCIETY, USA, www.iwcs.com
- KOREAN SOCIETY OF WOOD SCIENCE & TECHNOLOGY, Korea
- KYOTO UNIVERSITY, Japan, www.rish.kyoto-u.ac.jp
- MISSISSIPPI STATE UNIVERSITY, USA, www.cfr.msstate.edu/forestp
- NATIONAL INSTITUTE OF FOREST SCIENCE, Korea,
- OREGON STATE UNIVERSITY, USA, www.woodscience.oregonstate.edu
- RISE - RESEARCH INSTITUTES OF SWEDEN, Sweden, www.ri.se/en
- SCION, New Zealand, www.scionresearch.com
- SEOUL NATIONAL UNIVERSITY, Republic of Korea www.adhesion.org
- SOUTHWEST FORESTRY UNIVERSITY, China
- STATE UNIVERSITY OF NEW YORK, USA, www fla.esf.edu
- TECHNICAL UNIVERSITY in ZVOLEN, Slovakia, www.tuzvo.sk/en
- THÜNEN INSTITUTE, Germany, <https://www.thuenen.de/new/>
- UNIVERSITE LAVAL, Canada, www.xylo.sbf.ulaval.ca
- UNIVERSITY OF GÖTTINGEN, Germany, www.holz.uni-goettingen.de
- UNIVERSITY OF MINNESOTA, USA, www.bbe.umn.edu
- US FOREST PRODUCTS LABORATORY, USA, www.fpl.fs.fed.us
- VIETNAM NATIONAL UNIVERSITY OF FORESTRY, HANOI, VIETNAM, Vietnam, www.vnuf.edu.vn
- WOOD TECHNOLOGY INSTITUTE, Poland, www.itd.poznan.pl
- ZHEJIANG AGRICULTURAL and FORESTRY UNIVERSITY , China, <https://en.zafu.edu.cn/>



IAWS

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