

## First Sherwin Carlquist Awards 2022

At the second online IAWA Youth Forum on 10 December 2022, organised by the IAWA China Group and the South China Agricultural University, the first Sherwin Carlquist awards were selected by an international group of five judges. The Carlquist Awards honor the memory and great achievements of Professor Sherwin Carlquist (1930-2021) and will be presented annually to advanced students and/or early career wood anatomists for best presentations at an IAWA Youth Forum.

The first prize went to Dr. Kamil Frankiewicz from the Department of Biological Sciences, University of Cape Town and the Compton Herbarium of the South African National Biodiversity Institute for his excellent presentation on "Raylessness: from Carlquist's paedomorphosis to metacambia syndrome".

In his talk, Kamil demonstrated developmental diversity (especially in the varying duration of metacambial activity) accounting for various degrees of raylessness and derived woodiness in the Apiaceae. He thus provided an ontogenetic basis for Carlquist's earlier theory of paedomorphosis in secondarily woody taxa. In his captivating talk, Kamil used some nice images for a virtual dialogue with Carlquist on this long-debated subject.

The 2nd and 3rd positions were shared by Dr. Bingwei Chen for her outstanding "Study on the cell wall structure and mechanical properties of phloem fibres from *Pteroceltis tatarinowii*" and Vicky Beckers for her beautifully illustrated presentation on "Comparative wood anatomy and origin of woodiness of two Apocynaceae subfamilies".

Bingwei Chen (Nanjing Forest University, China and Max Planck-Institute of Colloids and Interfaces, Germany) showed how ultrastructure and mechanical properties of primary and secondary phloem fibres of *Pteroceltis* can explain their superior qualities for paper making throughout the ages in Chinese high culture.

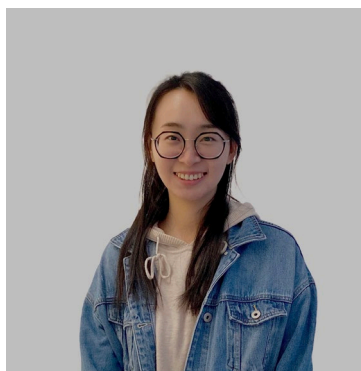
Vicky Beckers (Naturalis Biodiversity Center and Leiden University, The Netherlands) demonstrated the stunning wood anatomical diversity in trees, shrubs, and climbers of the Apocynaceae family, and how that diversity has evolved along the phylogeny of the family as we understand it today. The woody habit arose from herbaceous ancestors multiple times (ca. 28) in the subfamily Asclepioideae.

The laureates will receive a certificate and a prize of respectively 1200 and 600 EUR.

*Pieter Baas, the Netherlands*



Kamil Frankiewicz



Bingwei Chen



Vicky Beckers

## Future Meetings

### **EGU co-hosted by IAWA will be on April 23rd-28th, 2023**

BG3.3 – A trait-based approach to assessing plant species vulnerability to environmental changes in agriculture, forestry, and natural ecosystems will be presented at the EGU meeting co-hosted by IAWA. The convenor is Veronica De Micco, and the co-convenors are Rita Angelo, Jesus Julio Camarero, Leo Marcelis and Hans Beeckman.

For detailed information please visit

<https://meetingorganizer.copernicus.org/EGU23/session/44994>. For abstract submission please visit [https://egu23.eu/programme/how\\_to\\_submit.html](https://egu23.eu/programme/how_to_submit.html).

*Veronica De Micco, Italy*

### **IAWA Wood Identification Symposium of IUFRO Division 5 Conference in Cairns, Australia on June 4th - 8th, 2023**

The next –All-Division Conference of IUFRO Division 5 - Forest Products will be held in tropical Cairns, Australia on June 4th - 8th, 2023. The IAWA-IUFRO Symposium titled “S21 Promoting Data-driven Methods for Species and Origin Identification of Forest Products” can be found at [www.iufro-div5-2023.com/](http://www.iufro-div5-2023.com/). The program of this IAWA-IUFRO Symposium will encourage open dialogue around the following topics: Can a xylarium network and an integrated wood identification system guarantee a legal timber trade? Can the development of integrated wood identification technology enhance the regional and/or international timber and wood products export and import activities among countries? Do different regulations in each country complicate the development of a xylarium network?

During this conference, IAWA will also co-sponsor a session “S22&23 Application and Prospects of Interdisciplinary Forest Product Identification and Traceability Approaches”.

*Lichao Jiao, China*

### **IAWA Symposium of XXVI IUFRO World Congress in Stockholm, Sweden on June 23rd - 29th, 2024**

The XXVI IUFRO World Congress will be held in Stockholm, Sweden on June 23rd - 29th, 2024. The IAWA-IUFRO Symposium titled “T5.16 IAWA-IUFRO Symposium: Advancing Methods and Applications of Wood Identification” is organized by Yafang Yin, Gerald Koch and Tereza Pastore. This IAWA-IUFRO symposium aims to present the most recent advances in methods and applications of wood identification for promoting a sustainable supply chain of forest products. Specifically, this session will focus on improving the research capacity of wood identification methods, establishing databases and integrating networks for wood identification, and providing applications adopted with effective technologies and tools for various scenes of wood identification.

The call for abstracts for IUFRO 2024 is now open at [www.iufro2024.com/](http://www.iufro2024.com/) and will remain until June 2nd, 2023.

*Lichao Jiao, China*

### **XX IBC in Madrid, Spain on July 21st - 27th, 2024**

The XX International Botanical Congress (IBC) will be held in Madrid, Spain, July 21st - 27th, 2024. Prospective attendees of IBC 2024 are invited to submit symposium proposals that fit at least one of the 31 topics listed on the webpage. Each symposium will last for 2 hours and will consist of six 20-minute oral communications (15 min presentations + 5 min Q&A). IAWA has submitted a session proposal “IAWA symposium - The contribution of wood in forest: from wood dynamics to trait diversity and carbon gains”. Please get updated information via <https://ibcmadrid2024.com/>.

## The 10th PRWAC in Hokkaido, Japan on September, 2024

It is with pleasure that we announce the 10th Pacific Regional Wood Anatomy Conference (10th PRWAC) will be held in Hokkaido, Japan, in September 2024. Holding the 10th PRWAC in Japan was approved at the 9th PRWAC in Bali in 2017, but the conference was postponed due to COVID-19 until now. Despite the virus still being present in some regions, Japanese wood anatomists are now planning to hold this conference physically rather than virtually. Further information regarding the conference will be given soon in the hope of showing success post-COVID-19.

*Yuzou Sano, Japan*

*Hisashi Abe, Japan*

## Meetings reports

### The 9th IAWA-China Group Annual Meeting and 2022 International Youth Forum for Wood Anatomy, December 10th-11th, 2022, China

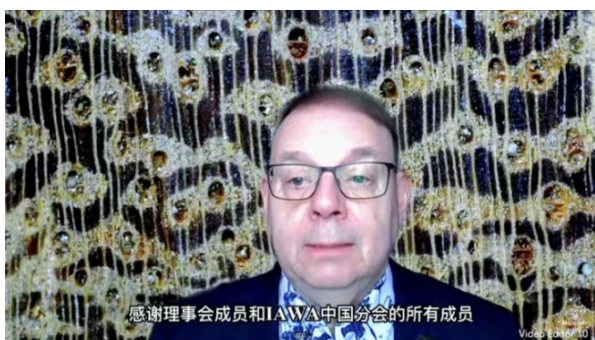
The 9th IAWA – China Group Annual Meeting and 2022 International Youth Forum for Wood Anatomy were held online on December 10-11, 2022, sponsored by IAWA – China Group, organized by South China Agricultural University (SCAU), co-sponsored by International Association of Wood Anatomists (IAWA), International Union of Forestry Research Organizations (IUFRO), International Academy of Wood Sciences (IAWS), and International Wood Culture Association (IWCS). The theme of the conference was “Wood Anatomy and Wood Utilization – Future for Ecozoic Era and Community”. The main venue was located at SCAU, with Nanjing Forestry University (NJFU), Zhejiang A&F University, Anhui Agricultural University (AHAU), Southwest Forestry University (SWFU), and other units as face to face sub-venues. The Vice President of SCAU Rongliang Qiu, the former Editor-in-Chief of IAWA Journal Pieter Baas, IUFRO Coordinator of the Forest Products Division Dr. Saranpää Pekka, IAWS President Yoon Soo KIM, IWCS President Dr. Howard Rosen and IAWA Executive Secretary Yafang Yin delivered opening remarks.



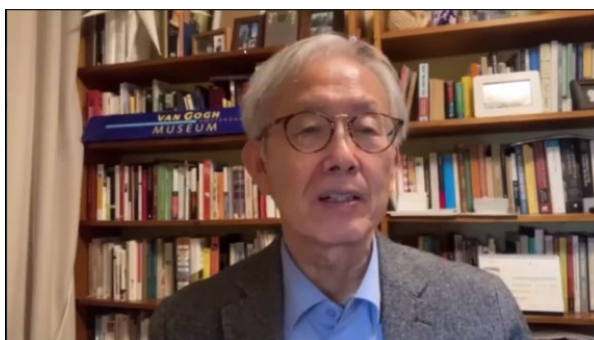
Professor Rongliang Qiu, SCAU



Professor Pieter Baas, IAWA



Dr. Pekka Saranpää, IUFRO



Professor Yoon Soo Kim, IAWS



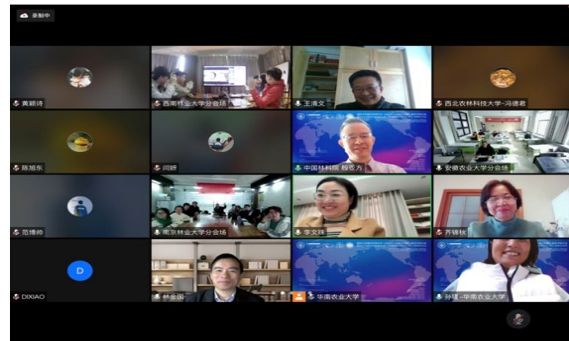
Dr. Howard Rosen, IWCS



Professor Steven Jansen, Ulm University



Main venue at SCAU



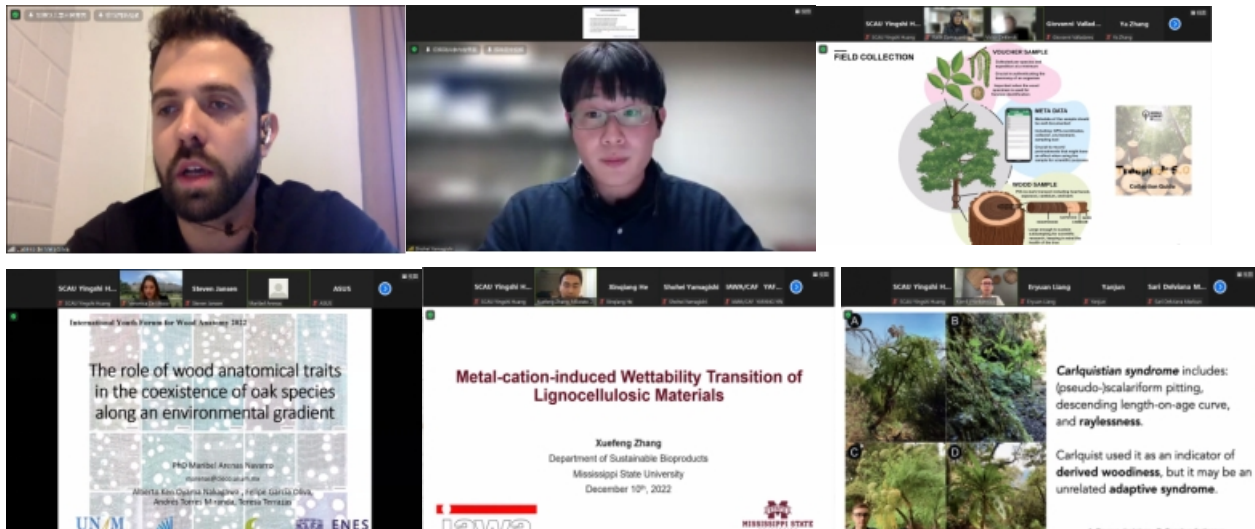
Part of online venue

The China Group Annual Meeting was held in the morning on December 10th and 11th. This annual meeting had the largest group of participants in the history of the IAWA-China Group. More than 360 people from 88 organizations attended the conference. Honorary Chairman of IAWA-China Group Professor Biao Pan delivered a keynote lecture entitled "Progress of Wood Anatomy Research in China". Professor Yongdong Wang from Nanjing Institute of Geology and Paleontology of the Chinese Academy of Sciences gave a keynote lecture entitled " Mesozoic climate perturbations and paleo-CO<sub>2</sub> variations: evidence from fossil plants of China ", and Professor Jin Sun of SCAU delivered a keynote lecture entitled "Utilization of biomass resources in Guangdong ". Six invited speakers and 43 oral presenters gave their presentations on xylem formation, dendrochronology, archaeological wood, wood identification, wood properties, new materials derived from wood, as well as wood and bamboo utilization.

The committee members of the IAWA China group elected nine qualified graduate students for the **Excellent Presentation Awards (EPA)** of the IAWA-China Group. The first prize winner was Jiawei Huang from SCAU with the topic of "Cell wall composition of *Camellia oleifera* Abel. shell: new insights from its composition and structure". The second prize went to Shimin Chu from the Research Institute of Wood Industry, Chinese Academy of Forestry with the topic of "Degradation of wooden piles at cell wall level from the Shahe Ancient Bridge Site", Jing Xue from Beijing Forestry University with the topic of "Changes in structure and composition of Bamboo by four decaying fungi ", and Xiaodie Dou from NJFU with the topic of "Analysis of the formation of light and dark striped patterns--Take *Cinnamomum camphora* as an example". The third prize was awarded to Jing Wang from Shaanxi University of Science and Technology, Youmei Wang from Sichuan Agricultural University, Yan Yan from SWFU, Zijing Liu from AHAU, and Liyuan Qin from Central China Agricultural University.

The 2022 International Youth Forum for Wood Anatomy was held on the afternoon of December 10th, attracting over 200 participants from more than 20 countries. Professor Steven Jansen from Ulm University presented a keynote lecture entitled "The significance of porous media and polar lipids for fluid transport in angiosperm xylem". Subsequently, 16 young scholars from 11 countries, including the National Autonomous University of Mexico, Kew Gardens, the National Research and Innovation Center of Indonesia, the University of Bordeaux in France, Ulm University in Germany, the National Forestry Research Institute in Japan, the Mississippi State University in the United States, the National

Institute of Science of Canada, the Institute of Wood Industry of the Chinese Academy of Forestry, and Southwest Forestry University, delivered oral presentations. For the first time, the 2022 Forum established the **Sherwin Carlquist Award**, and the first prize was awarded to Kamil Frankiewicz from the University of Cape Town and the Compton Herbarium of National Biodiversity Institute, South Africa. The second prize winner was Bingwei Chen from Nanjing Forestry University, China, and the Max Planck Institute of Colloids and Interfaces, Germany, and Vicky Beckers from the Naturalis Biodiversity Center and Leiden University, the Netherlands.



Part of speakers and presentations at the 2022 International Youth Forum for Wood Anatomy

IAWA-China Group and the local organizer, South China Agricultural University, actively built a conference platform, provided important academic exchange opportunities for scholars and graduate students in the field of wood anatomy to share the latest research progress, and effectively promoted the international and domestic cooperation and development of wood science and technology and related disciplines.

In 2023, the 10th Annual Meeting of IAWA-China will be held in Nanjing, China, co-hosted by Nanjing Forestry University and Nanjing Forest Police College.

*Kate Chen, Shan Li, Jin Sun, Shengcheng Zhai, Bin Xu, China*

## Miscellaneous News

### I.W. Bailey Award 2023 - Call for Nominations

I.W. Bailey Award 2023 is calling for Nominations. From 2014 onwards, the I.W. Bailey Award is presented annually for the best original or review paper submitted to the IAWA Journal by graduate and undergraduate students or postdocs up to five years after their PhD defense. Candidates may nominate their submissions directly to the editors of IAWA Journal: Lloyd Donaldson ([lloyd.donaldson@scionresearch.com](mailto:lloyd.donaldson@scionresearch.com)) and Marcelo Pace ([marcelo.pace@ib.unam.mx](mailto:marcelo.pace@ib.unam.mx)), together with a one-page cv, and one supporting statement from a senior IAWA Member before September 1<sup>st</sup>, 2023. The Award Committee will be formed by the Editors and Associate Editors of the IAWA Journal. Please visit <http://www.editorialmanager.com/iawa/> for instructions to authors.

### In Memoriam Professor Walter Liese

When we finalized this Newsletter Dr. Gerald Koch informed us that Professor Walter Liese (Hamburg, Germany) passed away on 24 February at the age of 97. His great services to Tree Biology, Forestry, Wood Science, Wood ultrastructure and Bamboo and Rattan anatomy (and many other fields)

were recognized in 1981 when he was elected an Honorary Member of IAWA. Extensive obituaries will follow.



### Call for Newsletter Items

The IAWA Newsletter keeps the IAWA community actively informed and stimulates members to visit the IAWA website for the latest and detailed news. Please send any news items you wish to share with the whole IAWA community to the newsletter editors Dr. Shan Li ([lishan.ecology@hotmail.com](mailto:lishan.ecology@hotmail.com)) or Dr. Lichao Jiao ([jiaolc@caf.ac.cn](mailto:jiaolc@caf.ac.cn)) of the IAWA Office, Beijing.

### Call for Manuscripts of IAWA Journal 2023

The editors of the IAWA Journal would like to encourage new manuscript submissions for volume 44, 2023. A reminder that subscribers/IAWA members can register for table of contents alerts on the IAWA Journal homepage. We anticipate the special Carlquist edition to be published as 44(4) but in the meantime, we are quite short of accepted manuscripts for 44(2) and 44(3). 44(1) is currently in press. There may be some issues accessing reprints online due to ongoing updates to the Brill website but this should be resolved as soon as possible.

#### Regular articles

Mitigation of cellular collapse during drying of *Eucalyptus nitens* wood using supercritical CO<sub>2</sub> dewatering.

Hamish Pearson, Lloyd Donaldson, and Mark Kimberley

Pages: 1–20

Online Publication Date: 15 Sep 2022

Quantitative anatomy or macroscopic parameters of compression wood of *Picea abies* (L.) H. Karst.? Defining the optimal parameters for dendrogeomorphic purposes.

Kristýna Wiśniewská and Karel Šilhán

Pages: 21–35

Online Publication Date: 29 Jul 2022

Induction of compression wood inhibits development of spiral grain in radiata pine

Authors: Jimmy Thomas, Stephanie M. Dijkstra, Jonathan J. Harrington, and David A. Collings

Pages: 36–62

Online Publication Date: 14 Apr 2022

Tracing the world's timber: the status of scientific verification technologies for species and origin identification.

Authors: Melita C. Low, Nele Schmitz, Laura E. Boeschoten, José A. Cabezas, Mathias Cramm, Volker Haag, Gerald Koch, Barbara R.V. Meyer-Sand, Kathelyn Paredes-Villanueva, Erin Price, Andrew H. Thornhill, Jo Van Brusselen, Pieter A. Zuidema, Victor Deklerck, Eleanor E. Dormontt, Alison Shapcott, and Andrew J. Lowe

Pages: 63–84

Online Publication Date: 29 Jul 2022

Anatomical investigation of wood from two old bridges as part of the historical record of the flora of the Atlantic Forest

Authors: Sabrina Nascimento Silva, Kelly Cristina Moreira Santos, Warlen Silva Costa, Marcelo Fraga Castilho, and Cátia Henriques Callado

Pages: 85–107

Online Publication Date: 22 Mar 2022

Historical woods of traditional Brazilian boats

Author: João Carlos Ferreira de Melo Júnior

Pages: 108–124

Online Publication Date: 29 Jun 2022

Acknowledgment of Reviewers

Pages: 125

Online Publication Date: 20 Feb 2023

*Lloyd Donaldson & Marcelo R Pace*  
*Editors in Chief – IAWA Journal*