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End of terms: 1 June

Please send correspondence by
email to the editor,

Lloyd Donaldson:

lloyd.donaldson@scionresearch.com

[com](http://www.iaaws-web.org/)

<http://www.iaaws-web.org/>

Message from the President

2019 was an exciting year for our Academy. The 2019 Fellows election was a great success, resulting in the election of 21 new Fellows from 15 countries, almost two thirds of whom are women. This is the most diverse group of new Fellows in the history of the IAWS and is an important first step towards the balancing the gender and geographic composition of the Academy. Much of the credit goes to Fellow Pieter Baas, Chair of the Scouting Sub-Committee, and Fellows Barbara Lachenbruch (USA), Roberta Farrell (New Zealand) and Ruben Ananias (Chile). The Scouting Committee is intended to have a dynamic composition, so in 2020 a new team will be selected by Fellow Baas and we thank the retiring members for their excellent contribution in 2019. I also thank all other Fellows who nominated candidates and encourage more nominations in 2020, keeping in mind the need for balance, as we have a long way to go.

On October 7, the 2019 Marcus Wallenberg Prize was awarded to IAWS Fellow Gerhard Schickhofer by H.M. King Carl XVI Gustaf at a ceremony in Stockholm. Webcasts from the Symposium on the following day can be seen at <https://mwp.org/symposium/symposium-2019/>. It is especially pleasing to see the very high standards achieved by the young scientists in the associated symposium.

The Executive Committee met in Moscow in December as we celebrated the 100th anniversary of the Bauman Moscow State Technical University/Mytishchi Branch. We greatly appreciate the support of the Director, Fellow Sanaev, and the organisational expertise of Fellow Galina Gorbacheva and her colleagues. As part of the proceedings, I had the honour of presenting three IAWS Awards: The PhD Award (first place to Dr Jinze Dou, second place to Dr. Qiliang Fu), the Distinguished Service Award (to Professor Xavier Deglise) and the Academy Lectureship (to Professor Viktor Sanaev). It was a great pleasure to witness the high achievements of our Fellows and young wood scientists.

Unfortunately, we have also suffered the loss of Fellows Marian Babiak and Fritz Schweingruber, whose initial obituaries appear in this Bulletin. Our deep sympathies go to their families, friends and colleagues.

In Australia, as we mourn lives lost, we are reminded of the fragility of our environment by the many bushfires that started before Christmas and have so far consumed hundreds of homes, more than a million hectares and a billion birds and animals. Livelihoods have been lost and the smoke affects the health of many more. Although it is raining as I write this, the fire season here has only just begun. We all need to treat our environment with great respect and find ways to adapt to the changing climate that will increasingly affect everyone on the planet.

Finally, I remind Fellows to submit Fellowship nominations to me and nominations for the 2020 PhD award to our Board Chair, Siqun Wang (please let your colleagues know that PhD Award nominations can also be made by non-Fellows).

Thanks to my Fellows on the Executive Committee, Yoon-Soo Kim, Howard Rosen, Lloyd Donaldson and Uwe Schmitt, as well as Board Chair Siqun Wang and the Board for their dedication and support.

I wish you all a healthy and happy 2020.

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2019 Fellow Election

The 2020 IAWS Plenary meeting will be held during the BIOCOMP 2020 conference in Korea – October 14-17, Gyeongju, Korea

The 15th Pacific Rim Bio-Based Composites Symposium

BIOCOMP

2020

KOREA

OCT. 14 - 17, 2020, GYEONGJU, KOREA

Wood-Based Composites for New Climate Change

www.biocomp2020.kr



Co-hosts



Sponsors



Upcoming Meetings



Invitation

The 15th Pacific Rim Bio-Based Composites Symposium will be held in Republic of Korea for the first time from October 14 to 17, 2020. The symposium is organized by The Korean Society of Wood Science and Technology (KSWST) and National Institute of Forest Science (NIFOS), together with Korea Forest Service and Korea Wood Panel Association. This conference will bring together leading scientists, researchers, government institutes and industries in the international community on bio-based composites to Korea in 2020. All scientists, researchers, industrial delegates and students from all over the world are invited to join the BIOCOMP2020 in Republic of Korea.

Subject

This BIOCOMP2020 will be the primary symposium of putting together new advances and developments in bio-based composites in a response to new climate change, leading to a carbon neutral and sustainable future. Consequently, this meeting will focus on 'Wood-Based Composites for New Climate Change' as the main theme. New and expanded uses of wood-based or bio-based composite panels as building products will certainly contribute to make the world more sustainable with low

carbon dioxide emission and environmentally friendliness by replacing high carbon materials such as steel, metal, or petroleum-based products. This symposium will be a platform for the world to bring together scientists, researchers, engineers, industrial partners and students related to the development of new bio-based composite materials from wood and non-wood sources.

The symposium will cover all aspects of lignocellulosic and bio-based composites, including:

- Bio-based raw materials
- Nanocellulose-based biocomposites
- Wood-based composite panels
- Wood plastic composites
- Adhesives and adhesion
- Bio-based resins
- Bio-based fiber modification
- Manufacturing technologies
- Analytical methods
- Standards development
- Sustainable biocomposites
- New product development and commercialization



Venue

BIOCOMP2020 will be held at Hwabeak International Convention Center (HICO) located in beautiful Bomun Tourist Resort in Gyeongju-City, Republic of Korea. Gyeongju-City, called the museum without walls, had been the capital of Silla Kingdom for almost thousand years, which provides diverse tourist attractions and activities, including various historic assets, national treasures, museums, and cultural properties as well as distinctive flavors of food to travelers.

Gyeongju-City located in the south east of the Korean peninsula is easily accessible by two major international airports: Incheon International Airport and Gimhae International Airport. It takes about 3 hours and 20 minutes by an express train, KTX, from Incheon International Airport, and 80 minutes by airport limousine bus from Gimhae International Airport, respectively.



Details of this symposium such as important deadlines for abstract submission, keynote speakers, technical programs, registration, accommodations, transportations, tour programs, and future contact information will be posted on the website in due course. For further information, please check any update at the website:

www.biocomp2020.kr

Upcoming Meetings



Greetings from International Wood Culture Society (IWCS) and World Wood Day Foundation (WWDF). We are writing to you with sincere hopes that you could please help us make the 2020 World Wood Day Event and Symposium much more effective and influential.

Theme: Legacy and Innovation of Wood

Date: March 20-22

Venue: Sky Hall, Bunkyo Civic Centre, Tokyo

Paper and Poster submissions on related topics are highly welcomed. Submitted abstracts are limited to 400 words overall. Due date for electronic submission of speaker registration form Word/ PDF is 31st December.

Topic 1: Historical and Cultural Values of Wood and Forest Utilization

Topic 2: Wooden Architecture- Construction, Preservation and Restoration

Topic 3: Wood-Based Artifacts, Furniture, Musical Instruments and Design

Topic 4: The Innovation of Wood and Non-Wood Forest Products

Topic 5: Education for Environment and Sustainability

For more information, please visit our website : <http://www.worldwoodday.org/2020/regions/Japan>

Please fill in the attached Registration Form and return to us for the review process. Please also send any inquiry by email to program coordinator (symposium@worldwoodday.org).

Thank you very much indeed for your time and kind attention.

We cordially look forward to seeing you again soon in the 2020 World Wood Day in Tokyo, Japan.

Yours Sincerely,
World Wood Day Symposium
Program Coordinator
Xiaoxia Hu



World Wood Day
March 21st, 2020

LEGACY

2020 World Wood Day Symposium
&
The 3rd IUFRO Forest Products Culture Research Group
Colloquium

Tokyo, Japan, 20-22 March, 2020

Speaker Registration Form

1. PERSONAL DETAILS:

Title and Full Name: (Ms. /Mr. /Dr.) _____

Job/Position Title: _____

Affiliation: _____

Address: _____

Nationality: _____

Date of Birth: _____

E-mail Address: _____

Tel: _____

Fax: _____

*Passport No.: _____
(If you require a formal invitation letter for Visa application)

Upcoming Meetings



World Wood Day
March 21st, 2020

LEGACY

2. **BIOGRAPHY** (Please provide a brief biographical information):



3. **TITLE AND TOPIC OF YOUR PAPER:**

(Example 1: Your proposed title; Historical and Cultural Values of Wood and Forest Utilization, Topic 1)

(Example 2: Your proposed title, The Innovation of Wood and Non-Wood Forest Products, Topic 4)

4. **ABSTRACT** (Up to 400 words):

5. **REGISTRATION FEE** (Including a registration package and a special souvenir)

| | Early Bird (USD) * before 23rd January, 2020 | Regular (USD) |
|------------------------------|---|----------------------|
| Full | \$210 | \$250 |
| Accompanying Person/ Student | \$160 | \$185 |

Symposium Contact

Upcoming Meetings



World Wood Day
March 21st, 2020

LEGACY

International Wood Culture Society
Program coordinator
Email: symposium@worldwoodday.org

Thank you so much for your interest in participating in 2020 World Wood Day Symposium and the 3rd IUFRO Forest Products Culture Research Group Colloquium!

The following information is **required** so that we can create conference materials.
Your timely response is greatly appreciated.

***Important dates for your conference preparation:

1. Return the speaker registration form to the symposium coordinator by 31st December. Please contact program coordinator in advance if any delay of submission is expected.
2. Please allow program coordinator to confirm the acceptance of your presentation by 15th January.
3. Please note that accepted paper and poster presenters will be exempt from the full registration package. Please note that the costs of round trip air-tickets, accommodation and meal are at your own expense.
4. Please inform us the dates of your arrival by 15th February and if you require any help with accommodation booking.
5. Please email a copy of your PowerPoint presentation to symposium@worldwoodday.org by 11th March.

Please do not hesitate to contact us if you have any inquiries.
We heartily look forward to seeing you in 2020 World Wood Day Event in Tokyo, Japan.

Yours Sincerely,
Program coordinator
symposium@worldwoodday.org

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2019 Fellow Election

New Fellows for 2019

| | |
|-----------------------------------|--------------|
| Voichita Bucur | Australia |
| Bertrand Charrier | France |
| Jozica Gricar | Slovenia |
| Keiko Kuroda | Japan |
| Jean-Michel Leban | France |
| Roger Moya-Roque | Costa Rica |
| Shri Ramaswamy | USA |
| Sabine Rosner | Austria |
| Ute Sass-Klaassen | Netherlands |
| Rita Scheel-Ybert | Brazil |
| Tatjana Stevanovic Janezic | Canada |
| Maija Tenkanen | Finland |
| Teresa Terrazas | Mexico |
| Brenda Wingfield | South Africa |
| Tomoya Yokoyama | Japan |
| Makoto Yoshida | Japan |
| Timothy Young | USA |
| Amy Zanne | USA |
| Meiyun Zhang | China |
| Xiaoyan Zhou | China |
| Tanya Zimmerman | Switzerland |



New Fellow Biographies

Voichita BUCUR – Adjunct professor RMIT University, Melbourne School of Science, GPO Box 2476, Melbourne VIC 3001, Australia

Expertise: Wood science, wood anatomy, ultrasound, mechanical characterisation of materials, nondestructive testing of wood, wood products, wood – based composites, trees, wood for musical instruments, X-ray for wood quality testing.

Awards:

- Distinguished services award 2007 Duluth - Minnesota USA – 15TH International Nondestructive Testing of Wood Symposium
- Silver medal 2005 – Paris France – Société d’Encouragement au Progress
- Honorary Professor, 1999 – Transylvania University, Brasov, Romania
- Cited by Who’s Who in America 1993-1994
- Publications Board for the Journal of Catgut Acoustical Society

Membership:

In France: French Acoustical Society since 1981 until present; Association for wood research in Lorraine (Association pour la Recherche du bois en Lorraine) ARBOLOR 1981 – 2005; Materials Research Society 1988 – 2003
In USA: Acoustical Society of America 1984 – 2003; Catgut Acoustical Society 1981 – 2002.

Principal Wood Science Achievements:

Voichita has extensive scientific experience in wood science and the wood products field. Her areas of expertise are ultrasound for mechanical characterization of wood, nondestructive testing of wood, wood products, wood-based composites and trees, as well as wood anatomy. Voichita’s activity is illustrated by her 5 highly referenced published books and over 160 articles and other publications. She has been invited as keynote speaker at 35 international meetings and symposia. Voichita worked for more than 25 years for the Forestry Research Centre in Nancy, France and was responsible for the development of acoustic (ultrasonic) nondestructive techniques for quality improvement of wood and wood based products and led the research programs for PhD and M.Sc. students at the Université "Henri Poincaré", Nancy, France. She spent most of her working life in Centre de Recherches Forestieres de Nancy, France, in charge of the development of ultrasonic and other nondestructive techniques. She was also interested to promote research programs designed to employ nondestructive testing methods to predict the quality of wood ranging from planted trees to musical instruments. In Australia, she was associated with CSIRO – Division of Materials Science from 2005 to 2015. Since 2016, Voichita has been associated with RMIT University School of Science as adjunct professor, to promote activity on acoustics and ultrasonic techniques in wood science and wood-based composites and other materials.

Number of refereed publications: 160

patents: 1

books and chapters: 16

reports: 66

Citations: 2124

H index: 18



New Fellow Biographies

Bertrand CHARRIER, University Professor, University of "Pau et Pays de l'Adour", France

Expertise: Wood chemistry, wood technology, wood engineering, wood based composites.

Awards:

Membership:

Expert for Transtec agency. Technical assistance for development project of scientific and technologic park of Borj Cedria (Tunisia). Action 2. Consultation N° 39/2016/02. Technical center International Expert focused on new strategy of research centers : innovative national and international networks. Short term consultant senior expert in research strategies development and international and national networks (May 2018 to February 2019).

Since 2014 member of the international expert order. Teacher specialized in international consultancies. More than 20 Intensive courses given in five countries (Tunisia, Algeria, Morocco, Cameroun and Ivory coast)

Consultant for employees evaluation for the International Center for Agriculture and Development (CIRAD - Montpellier). Grenat Commission – 2013, 20, 21 et 22 February.

Consultant for Research and high level courses French evaluation agency (AERES) as delegate of National University Commission (CNU 68) for evaluation of two laboratories : LBLBC and AGPF (Orléans)

International expert employed by Transtec agency (Belgium) in 2000, 2001 et 2002, STEM (Tunisia)

Consultant for French International Center for teaching (CIEP) (Algeria) in 2009. Analysis and elaboration of new under graduate programs of biology and natural sciences.

Regular consultant for research projects Environmental and Energy Agency(ADEME); Natural Sciences and Engineering Research Council" (NSERC) (Canada); "National Research Initiative Competitive Grants Program" (NRICGP) for topic "Improved Utilization of Wood and Wood Fiber Program) (USA) depuis 2010.

Judicial expert in material sciences since February 2019.

Principal Wood Science Achievements:

In December 2018, Bertrand has been coordinator of one junior chair project in Mont de Marsan (1 million euros during 5 years). The aim is to enhance applied research in wood science and wastes from agriculture industry. The researcher will be employed from 1st September 2019. Financial support is obtained form University of Pau and Pays de l'Adour and Landes Department Council. In 2018, he has demonstrated for the first time, the special links existing between colophony and turpentine according thermal gradient. In 2018, he has also discovered new molecules in Acajou wood from Gabon.

Bertrand has created the national network xylomat in 2010. It is focused on development of projects with industries specialized in wood and wood composites at one national level. He has developed new bio adhesives from tannins with good performances for particleboards industry. He has validated the use of Near Infra Red Spectroscopy to quantify the phenol content in oak wood (2008) and has also tested new UV absorbers and UV light influence on oak ellagitanins. He has identified for the first time the strong genetic control of tannins production in oak wood and for the first time has identified the origin of brown discolouration in oak wood and suggested preventive solutions for industries.

Number of refereed publications: 54

patents: 2

books and chapters: 6

reports: 25

Citations: 933

H index: 21



New Fellow Biographies

Jozica GRICAR, Senior researcher, Slovenian Forestry Institute, Ljubljana, Slovenia

Expertise: Wood anatomy, tree growth, tree physiology, wood quality.

Awards:

14 Invited lectures at 7 foreign and 2 domestic research institutions, leader of 5 national, 1 bilateral, 4 EU and 2 international market projects, collaboration in 11 national, 1 bilateral and 4 EU projects, in the period 2000-2015 7 visits for a period of 1-3 months at foreign research institutions.

Membership:

COMMISSIONS OF TRUST: 15/3/2018-Member of the Scientific Advisory Board of the ATR (Association for Tree-Ring Research); 13/10/2017–present Member of the Biotechnical Sciences - Permanent Expert Body of the Slovenian Research Agency; 10/3/2017–present Vice president of the management board at Slovenian Forestry Institute (employee representative); 20/5/2013–27/3/2016 President of the Scientific Council of Slovenian Forestry Institute; 2/7/2010–25/1/2013 Vice president of the management board at Slovenian Forestry Institute (employee representative); Member IAWA and ATR; Referee: for 30 journals.

Principal Wood Science Achievements:

Jozica Gricar is head of the Laboratory for wood anatomy at SFI with the main research interest linking in radial growth of trees, tree biology and anatomy of tree tissues, also in relation to tree physiology, environmental conditions and wood quality. The main ambition of the group is to combine state-of-the-art knowledge and techniques in tree anatomy in the search for new approaches and improvements in: a) wood and bark identification; b) investigation of development and structure of tree tissues (wood, cambium, bark etc.) of different tree species and c) to accumulate and transfer existing information on the anatomical characteristics of woods that may affect their utilization potential.

Number of refereed publications: 64

patents: -

books and chapters: 9

reports: 7

Citations: 1897

H index: 23



New Fellow Biographies

Keiko KURODA, Kobe University, Graduate school of Agricultural Science, Laboratory of Forest Resources
 1-1 Rokkodai, Nada-ku, 657-8501 Kobe, Hyogo, Japan

Expertise: Environmental protection, botany, wood biology.

Awards:

- President of the Japanese Forest Society
- Director of the Japan Wood Research Society
- Director of the Tree Health Research Society, Japan
- Council member of the tree doctor qualification
- Editorial boards: Tree and Forest Health (Tree Health Research Society, Japan)
- Technical consultancies: Forestry Agency, Japan; local governments (Kyoto, Osaka and Wakayama Prefectures; Kyoto City).

Membership:

IAWA.

Principal Wood Science Achievements:

Keiko started her research experience as a wood anatomist. In the early period, she reported on the reaction of tree cells against wounding and developed a technique "wounding method" to measure xylem growth accurately at the levels of cell numbers (Doctoral thesis; Kuroda & Kiyono 1997). Then, she started investigations on tree pathology and physiology around 1990s. Principal reports were published on the mechanisms of disease development including pine wilt (Kuroda et al. 1991, Kuroda 2008), Japanese oak wilt (Kuroda 2001), fig canker (Kajii et al. 2013), and the coral tree decline (Kuroda et al. 2017). These achievements were based on the functional anatomy of host trees in the early stage of infection. In the case of pine wilt that is one of the notorious diseases in the world, she found a drastic dehydration of tracheids occurs by abundant synthesis of volatile terpenoids by host cells, and therefore infected trees die from water deficit (Kuroda 1991, Kuroda et al. 1991). She found the causal agents of two serious tree diseases are specific fungi (new diseases) (Kuroda 2001, Kuroda et al. 2017). To detect abnormality in tree tissues, Keiko has been using various noninvasive tools and techniques such as Magnetic Resonance micro-Imaging (Ichihara et al. 2005), Acoustic Emission technique (Kuroda 2012), and heat flux meters, as well as gas chromatography and DNA analysis. Recently, she is focusing on the ability of rehydration of tree xylem and leaves (Azuma et al. 2015, 2017).

Number of refereed publications: 55 **patents:** 0 **books and chapters:** 15 **reports:** >100
Citations: 709 **H index:** 16



New Fellow Biographies

Jean-Michel LEBAN, Directeur de Recherche, INRA, France

Expertise: Silviculture, wood anatomy, wood Biology, wood Physics, wood Quality, wood technology, biomass utilization.

Awards:

- Forestry Commission-John Eadie Memorial Fellowship AWARD 2003, Scotland, models for Sitka spruce
- Visiting Scientist at the Department of Primary Industry, 2005, Brisbane, Australia, models for Caribbean pine
- Schweighoffer Prize 2005, wood welding project with Prof A. Pizzi's team
- Sivicultural Prize 2011 by the Institute of Chartered Foresters, Edinburgh
- Responsible of the IUFRO Working Party 5.01.04 from 2007 to 2012. Modelling Wood Quality
- Co-editor in chief for Annals of Forest Science, Impact Factor=2,357, in charge of the wood science.

Membership:

Principal Wood Science Achievements:

Jean-Michel's research is designed for providing answers mainly to the following questions:

- What is the wood quality of the present and future forest resources?.
- How to increase the value of the wooden products in the forestry processing chain?

He has developed models describing the wood properties variability (e.g. density, MOE, branches). These models were embedded into a set of software he wrote for linking tree growth (stem shape, branch sizes and location), wood properties and a glass-log model for the conversion of the tree stems into boards and planks. These models were implemented abroad and disseminated within the IUFRO WP 5.01.04. He has initiated several research projects with the largest French sawmill and as a result he was asked to define the specification of an industrial X-ray log scanner used for grading each year 1 million m³ of logs. He has also provided a significant contribution to the wood welding project (patent WO2011/1546525) by quantifying the quality of the welded bond by means of microdensitometry and tomography. His current XDM project aims at improving our knowledge of the wood density variability of 140 forest species from the French forests. XDM permits the fast and reliable measurement of wood density on unprepared increment cores. Today, more than one hundred thousand cores were sampled by the French National Forest Inventory and measured, thus allowing the reassessment of the carbon stored in our forests and paving the avenue for producing biomass models and maps for research and industry.

Number of refereed publications: 130

patents: 1

books and chapters: 10

reports: 80

Citations: 2765

H index: 28



New Fellow Biographies

Roger MOYA ROQUE, Profesor-Investigador, Escuela de Ingeniería Forestal, Instituto Tecnológico de Costa Rica, Cartago, Costa Rica

Expertise: Harvesting, wood anatomy, wood technology, non-wood products.

Awards:

Roger has a trajectory of 20 years of uninterrupted research at the Forest Engineering School of the Technological Institute of Costa Rica (TEC). Throughout, this career he has made the knowledge available to the country in five different books and more than 100 scientific articles published in journals indexed in ISI Web of Science, without considering other publications in different national and regional journals. Roger Moya had technical visits to USA, most Latin America countries, Greece, Germany and France.

Membership:

Member of the National Academy of Science of Costa Rica.

Principal Wood Science Achievements:

Dr. Moya had developed an area of knowledge in the field of tropical wood species, especially wood from plantations, which is established with the purpose of producing wood or raw material to produce renewable energy. The most important thing is that Dr. Moya has developed this research in the conditions of the developing country, which contemplate not only the species, but the conditions of the Costa Rican society: little amount of resources for research; limitation of high technology equipment to develop research; and especially that the work has been carried out together with the human resources that the country has in different institutions dedicated to research. The development of this knowledge becomes even more important if one takes into account that tropical species are little understood, especially in the Central America area. The use of wood material is important in this area, because the raw material that is produced must be very efficient, so the scientific development on this material throughout the production process must be of great importance. The research carried out has had great applicability in central America. Among them we can highlight the structural use of wood from forest plantations since it is now possible thanks to the development of the research of the mechanical properties of this material in different research projects. The application of this important technology is reflected in the construction of wooden houses, civil constructions based on wood and many end-users.

Number of refereed publications: 98

patents: 0

books and chapters: 5

reports: -

Citations: 691 **H index:** 14



New Fellow Biographies

Shri RAMASWAMY, Professor, Department of Bioproducts and Biosystems Engineering, College of Food, Agricultural and Natural Resource Sciences and College of Science and Engineering, University of Minnesota, St. Paul MN, U.S.A.

Expertise: Wood physics, wood technology, fibre technology, biomass utilization.

Awards:

- Professor and Department Head, 2003-2017, University of Minnesota
- American Institute of Chemical Engineering (AIChE) Fellow (2015)
- American Institute of Chemical Engineering (AIChE) Andrew Chase Award (2015)
- Technical Association of the Pulp and Paper Industry (TAPPI) Fellow (2014)
- Past Chair, Vice Chair, Forest Bioproducts Division, AIChE
- Past Chair and Vice Chair, Pulp and Paper Educational and Research Alliance (PPERA)
- Consulting to pulp and paper, consumer products, forest products, chemical and machinery manufacturers and suppliers to the industry – 1995 – present
- Primary Editor, Separations and Purification Technologies in Biorefineries, Wiley & Sons, ISBN: 978-0-470-97796-5
- Co-editor, Biorefinery Co-Products: Phytochemicals, Primary Metabolites and Value-Added Biomass Processing, Wiley & Sons, ISBN: 978-0-470-97357-8
- Editorial Advisory Board, Drying Technology International Journal, Marcell Dekker, NY
- Guest Editor, Drying Technology International, Marcell Decker, NY

Membership:

Principal Wood Science Achievements:

Shri has developed methods for visualizing and characterizing the three dimensional structure of biobased materials including wood, forest products, pulp and paper and bio-composites. He has developed methods for predicting the simultaneous diffusion of water in bio-based materials using actual three dimensional structures and developed relationships between structure and transport properties in biomaterials. His work has helped better understanding of how fiber characteristics, fiber treatments, manufacturing process parameters can affect the efficiency of the manufacturing process. He has developed process modelling and simulation tools for integrated biorefineries using wood as raw materials and how these tools can be used to improve and optimize forest products manufacturing considering number of value added products and evaluated the potential for pre-extracting hemicellulose and converting waste cellulose fibers and fines into value-added products without adversely affecting primary forest products. Shri has led the program at the University of Minnesota and provided advice and guidance to other programs around the world as we transition from a traditional forest products programs to a broader renewable/sustainable bioproducts academic programs. He continues to provide leadership and make significant contributions in the Forest Bioproducts division of the American Institute of Chemical Engineering (AIChE), Technical Association of the Pulp and Paper Industry, Pulp and Paper Education and Research Alliance (PPERA), and the Renewable Bioproducts focus area of the Rapid Process Intensification and Deployment DOE Advanced Manufacturing Institute.

Number of refereed publications: 71

patents: -

books and chapters: 6

reports: 154

Citations: 2631

H index: 21



New Fellow Biographies

Sabine ROSNER, Institute of Botany, BOKU University Vienna, Austria

Expertise: Silviculture, wood biology, wood physics.

Awards:

- 1999 Stiftung „120 Jahre Universität für Bodenkultur
- 2006 Hertha Firnberg Award, FWF Austria
- 2009 Elise Richter Award, FWF Austria
- 2012 - * ISRN Forestry
- 2013 - * Tree Physiology (Reviewer board)
- 2014 - * Maderas-Cienc Tecnol
- 2014 - * International Scholarly Research Notice

Membership:

IAWA, EWGAE (European Working Group on Acoustic Emission), Österreichische Arbeitsgemeinschaft für Zöliakie.

Principal Wood Science Achievements:

After her PhD, Sabine was employed for 14 years within several projects, all dealing with the structure-function relationships of wood. During the period between 2003-2013 she designed and conducted her own projects. Three successful project applications are listed below.

03. 2003 – 06. 2006 Institute of Botany, BOKU, Vienna, Prof. Hanno Richter & Prof. Rupert Wimmer: Tradeoffs between structural, mechanical and hydraulic functions in Norway spruce – consequences for wood quality, financed by FWF (P16275)

10. 2006 – 09. 2009 Institute of Botany, BOKU, Vienna, Hertha Firnberg Award: Wood dehydration analyzed by extraction of features of ultrasound acoustic emissions, financed by FWF (T304-B16)

03. 2010 – 02. 2013 Institute of Botany, BOKU, Vienna, Elise Richter Award: Analysis of acoustic emission from drought stressed plants, financed by FWF (V146-B16)

In March 2013, the applicant was employed as Assistant Professor and since January 2017 she has an appointment as Associate Professor at the Institute of Botany, BOKU, Vienna.

Number of refereed publications: 52,

patents: -

books and chapters: 4

reports: 55

Citations: 993

H index: 16



New Fellow Biographies

Ute SASS-KLAASSEN, Associate Professor, Wageningen University & Research, The Netherlands

Expertise: Silviculture, environmental protection, botany, wood anatomy, biology, wood chemistry, wood quality, biodegradation, wood technology, preservation.

Awards:

- 2011 -2018: 5 nominations for “Teacher of the year” at Wageningen University
- excellent education price of Wageningen University for the course “Forest Resources” in 2014, 2015, 2017 & 2018.

Membership:

Since 2016 President ATR (Association for Tree-Ring Research)
2013-2016 Board member (secretary) ATR (Association for Tree-ring Research).
Since 2015 Board member IUFRO Task force Forest Adaptation and Restoration under Global Change under Global Change.
Since 2018 Board member IUFRO Task force Forest Mortality
2014-2017 Scientific partner Marie Curie ITN-ForSEADiscovery.
2013-2016 Board member KNBV (Royal Dutch Forest Society).
2012-2016 Chair & grant holder EU COST Action FP1106 STReESS - Studying Tree Responses to extreme Events: a Synthesis"; 34 countries, c. 350 participants.
2010-2015 Associated editor IAWA, Dendrochronologia.
2010-2013 Member programme commission NAC (Nederlands Aardwetenschappelijk Congres)
2007-2011 Member of the Council IAWA.

Principal Wood Science Achievements:

Motivated by her education in Wood Sciences and Technology (University of Hamburg) Ute’s ambition was always to understand wood formation in living trees and performance of wood as a material. During her career she focused on research in trees as archives in ecology, forestry, climatology & history. Tree-ring research, quantitative wood anatomy and xylogenesis are her tools to investigate trees and shrubs, but also archaeological and historic timber, from locations across the world. Working in interdisciplinary teams was essential to develop new research ideas and advance research fields like quantitative wood anatomy, xylogenesis, tropical dendrochronology and dendro-provenancing. Ute is proud to call herself a student of Dieter Eckstein and Fritz Schweingruber, both founders and promoters of dendrochronology and wood sciences in Europe. Following their example she put a large effort in to building up and leading European inclusive and integrating research networks to promote wood sciences and integrate it with other disciplines (Association for Tree-Ring Research, COST Action STReESS, ITN Marie Curie ForSEADiscovery). In all these research networks she gave special attention to the support of young researchers. Besides considerable and original scientific output these research networks resulted in numerous new research initiatives and - through involvement of young people – will guarantee further development of wood science.

Number of refereed publications: 69

patents: -

books and chapter: 10

reports: 9

Citations: 2638

H index 26



New Fellow Biographies

Rita SCHEEL-YBERT, Museu Nacional, Universidade Federal do Rio de Janeiro (UFRJ), Brazil

Expertise: wood anatomy, botany.

Awards:

- Head of the Laboratory of Archaeobotany and Landscape - Museu Nacional, UFRJ
- Coordinator of the Graduate Program in Archaeology of the Museu Nacional, UFRJ
- President of Curators for the Archaeology Collection in Museu Nacional
- “Young Scientist of our State” (2009-2012) and “Scientist of our State” (2012-2015 and 2017-present) of the Foundation for Research Support of the State of Rio de Janeiro/FAPERJ (award and grant)
- Productivity fellow of the CNPq/National Counsel of Technological and Scientific Development
- Nominated by Marquis Who's Who with published biography in the Who's Who in the World – 24th-26th Ed. (2006-2008), and Who's Who in Science and Engineering – 10th Anniv. Ed. (2007)
- Consultant/Reviewer for many national and international Journals and for several funding agencies (Foundation for the Coordination and Improvement of Higher Level or Education Personnel/CAPES; National Counsel of Technological and Scientific Development/CNPq; Belgian Science Policy Office/BELSPO; European Research Council/ERC etc.)
- Multiple research grants of the National Counsel of Technological and Scientific Development/CNPq and Foundation for Research Support of the State of Rio de Janeiro/FAPERJ (since 2002)

Membership:

Member of the Editorial Board: Arquivos do Museu Nacional Journal (since 2004). Member of the International Association of Wood Anatomists (IAWA, since 1996). Sociedade de Arqueologia Brasileira (SAB, since 1997), and Society for American Archaeology (SAA, since 2000).

Principal Wood Science Achievements:

Rita is an anthracologist - a specialist in charcoal anatomy. A pioneer of tropical anthracology, she created the first charcoal collection dedicated to tropical species in the world. Started in the nineties, focusing in different Brazilian vegetation types, it remains the second largest charcoal collection in the world, containing more than 2500 specimens (more than 1300 species) (although the main collection was lost in the National Museum fire, doubles of most samples remain stored at the University of Montpellier, France). She pioneered archaeobotany and charcoal analysis in Brazil, where she directed a research group in Anthracology in the Museu Nacional (National Museum) of the Federal University of Rio de Janeiro since 2002 – which gave origin to the Laboratory of Archeobotany and Landscape in 2012. She works in different research lines related to wood sciences, most concerning charcoal identification aiming palaeoecological and palaeoethnobotanical interpretations, but also in studies of pre-Quaternary charcoal remains, dendroanthracometry, and in the recognition of species from fires of natural and anthropogenic origin and the controlling of charcoal production in order to reduce the illegal wood extraction from native biomes. She trained many students from different parts of Brazil and abroad, several of which now pursue their academic or professional activities in archaeology, anthracology, archaeobotany, and wood anatomy.

Number of refereed publications: 77

patents: -

books and chapters: 29

reports: >98

Citations: 1510

H index: 21



New Fellow Biographies

Tatjana STEVANOVIC JANEZIC, Université Laval, Quebec City, Canada

Expertise: Wood chemistry, biodegradation, wood technology, fibre chemistry, pulp manufacture, non-fibre wood products

Awards:

Director of Wood Engineering Program at Laval University since 2010; Development of program curriculum as to implement the evaluation of 12 qualities of engineers to comply with the requirements for the accreditation by the Engineers Canada; Member of Order of Engineers of Quebec; Member of American Chemical Society; Visiting Professor : University Henri Poincaré (now University of Lorraine) in 2002 2003, 2006 and Université de Lorraine/ENGREF 2007 ; Université de Picardie Jules Verne, Amiens France, 2014; Université de Bordeaux and Université de Pau et de Pays d'Adour in Mont de Marsan, as well as Université de Lorraine, France, 2015; Workshop at Belgrade University, organised for scientists/professors educated at Belgrade University, working abroad, offered to graduate students on topic wood biopolymers; June 2010. Chief scientific editor of two major books on contribution of wood chemistry to innovative sustainable transformation of wood in the 21st century, published by Taylor and Francis (in 2018) and Presses universitaires de Bordeaux (currently in press).

Membership:

Member of Scientific Committee for WoodChem conferences, Nancy. University of Lorraine, (2013, 2015, 2017 and 2019); Nominated for Environment Division Research and Development Dima Award, Canadian Institute of Chemistry (CIC) in 2019.

Principal Wood Science Achievements:

Throughout her teaching and research career, Tatjana has been getting insight into an amazing variety of molecular structures of wood polymers and extractives. This knowledge is essential for innovations in the field of biorefinery. She strongly believes in the importance of sharing the results of research through teaching and the two have remained interdependent throughout her career. Tatjana has devoted a lot of efforts to preparing textbooks in Wood chemistry (in Serbian and French) and more recently to editorial work on books presenting current trends in sustainable wood transformation (in English and French). Tatjana's research activities have focused on lignins and bioactive polyphenols, some of which share a part of the biosynthetic pathway with lignins. Lignins, as the most abundant aromatic biopolymers on Earth are of central importance for wood chemistry and chemical conversion of wood, and yet still inadequately valorised. The plurality of lignin structures depending on wood type and tissue or plant origin offers huge potential for research. Her team has developed recently the organosolv process offering access to a high purity lignin for carbon fibre and other novel applications. A variety of complex molecular structures of bioactive forest extractives has motivated my studies on their recovery from various residues of wood transformation, rather than their simple incineration. She has revealed the presence of a potent antioxidant resveratrol, in black spruce bark, in higher concentration than in its common food sources. The bark remaining after extraction remains available for organosolv conversion into cellulose and bark lignin and other new applications.

Number of refereed publications: 110

patents: 2

books and chapters: 25

reports: 281

Citations: 714

H index: 21



New Fellow Biographies

Maija TENKANEN, Vice-Dean Research and Doctoral Education, Professor in Bioproduction Chemistry

Expertise: Wood chemistry, biodegradation, bioconversion, non wood plant materials

Awards:

- The Marcus Wallenberg prize (group) 2003
- Best Research Paper Award (TAPPI) (group) 1999
- Member of the Finnish Academy Science and Letters, since 2016
- Visiting Professor (sabbatical), University of Toronto, Canada, February – April 2014
- Head of Department, Faculty of Agriculture and Forestry, 2004-2006, 2014-2017
- Vice-Dean Research and Doctoral Education, 2018-2021
- Editorial board member, Applied and Environmental Microbiology, 2000-2003
- Formas Evaluation Panel Member (Resource efficient products and processes call), Sweden, 2015 – 2018

Membership:

Principal Wood Science Achievements:

Research on wood and cereal hemicelluloses for 30 years. First the focus was to find new hemicellulases, particularly xylan-acting enzymes. This work resulted in identification of several completely new xylan and mannan (backbone and side groups) hydrolysing enzymes. Some of the enzymes have ended up in commercial enzyme preparations. The first patent application was on xylan-assisted bleaching of kraft pulps. Basic research conducted in enzyme specificities and action mechanism has been important to better understand the potential and possibilities of enzyme applications. In the next phase structures of wood-derived hemicelluloses and modifications during kraft pulping were in focus which resulted in rewarded (The Marcus Wallenberg prize) finding of hexenuronic acid in kraft pulp xylans. This work resulted in a patent and used a process for selective removal of hexenuronic acid. Later xylan and mannan acetylation in woods was studied in detailed applying enzymes in combination with advanced mass spectrometry and NMR spectroscopy and a clear pattern of acetylation was found. During the last 15 years research has been focusing on understanding the structure-function relationships of wood and cereal hemicelluloses, and their potential applications in biodegradable films, aerogels and as emulsifiers. Enzymes have been applied as selective tools for modifications, and in addition to hydrolases, oxidases, have been used. Ground-breaking research was conducted with galactose oxidase in forming novel polysaccharide-based gels and aerogels. Educating and training a next generation of researchers interested on wood hemicelluloses, which still are partly neglected in comparison of cellulose and lignin, has been an important outcome too.

Number of refereed publications: 186

patents: 9

books and chapters: 16

reports: 82

Citations: 7100

H factor: 49



New Fellow Biographies

Teresa TERRAZAS, Professor Instituto de Biología, Universidad Nacional Autónoma de México

Expertise: Botany, wood anatomy, wood biology, wood chemistry

Awards:

- Associate editor Brazilian Journal of Botany 2013-
- Editor in Chief of Botanical Sciences (Boletín de la Sociedad Botánica de México) 2011-2015
- Different Committees within the National Council for Science and Technology

Membership:

Regular member of the Mexican National Academy of Science since October 2006

Member of the National Researcher System, the highest category (III), since January 2006.

Member of IAWA Council/Editorial Board 2007-2010.

Principal Wood Science Achievements:

Terresa's line of research with species of the flora of Mexico has focused on the family Cactaceae and genera of different families endemic to Mexico. The integrative project on chemical composition and the expression of genes in vascular tissue of Cactaceae of which she is leader has allowed us to discover that cacti regardless of size have secondary growth like other woody plants such as pines and eucalyptus; who share with these taxa not only a set of genes expressed in the vascular cambium, including syringyl and guaiacyl lignin, but that have exclusive characteristics. The accumulation of syringyl lignin is greater in non-fiber species, possibly in the cellular junctions of the tracheal elements (broadband elements of the vessel and tracheids), so that the mentioned cell types of these species are possibly adaptations to the arid environments where they develop, which together with their succulence allows them to have a very resistant hydraulic system. Terresa has focused on how and to what extent the anatomical variation of tissues contributes to characterize functional groups and their relationship with physiological and growth aspects (cambial activity and periodic marks). This perspective tries to contribute to the knowledge of the modifications that vascular tissue will have with climate change, aspects that have been addressed in species of different taxonomic groups such as Asteraceae, Cactaceae, Fagaceae, Grossularaceae, Malvaceae and Rosaceae. One of her strong commitments is to encourage students and colleagues to publish the work we do together.

Number of refereed publications: 179

patents: -

books and chapters: 7

reports: -

Citations: >2000

H factor: 21



New Fellow Biographies

Brenda WINGFIELD, Professor and Research Chair in Fungal Genomics, University of Pretoria, South Africa

Expertise: Biology

Awards:

- South African Society of Microbiology Gold Medal 2018 (first female recipient)
- Vice President of the Academy of Science of South Africa (2017 - current)
- Honorary Member of Mycological Society of America 2017 (highest honour for an international mycologist)
- American Phytopathological Society Fellow Awards 2017
- Recipient of the Harry Oppenhemier Memorial Fellowship Award 2015
- Persoon medal (South African Society of Plant Pathology 2015 (first female recipient)
- Winner African Union Regional Awards for Women in Science (Southern Region) 2009
- Winner Department of Science & Technology Distinguished Women in Science Awards 2008

Membership:

Principal Wood Science Achievements:

Professor Brenda Wingfield is an outstanding scientist and educator, as evidenced by an h-index of 50, and more than 10 000 citations, as well as dozens of completed MSc and PhD supervisions. Her research focuses on speciation and evolution of fungi. She has worldwide collaborations with research groups working on a spectrum of different organisms. Much of this collaboration is in association with the tree pathology research group and the DST/NRF Centre of Excellence in Tree Health Biotechnology, with the emphasis of this research on important plant and tree pathogens. Understanding the population diversity of a pathogen is an important aspect of being able to control the degree of disease and disease spread. Prof Wingfield's research has resulted in the development of tools to determine the population diversity of many important tree pathogens. These molecular tools have been used to study the movement of many major tree pathogens and in some cases suggest probable centres of origin. Her group sequenced the first fungal genome in Africa, the genome of the pitch canker fungus, *Fusarium circinatum*. This pathogen is currently the most important threat to pine plantation forestry globally. In the ten years since sequencing the *F. circinatum* genome Prof Wingfield and collaborators have contributed significantly to the knowledge base of tree pathogens through numerous genome and functional genetics projects. This research has added significantly to the development of diagnostics to identify pathogens for Forestry Industries internationally.

Number of refereed publications: 400

patents: -

books and chapters: -

reports: -

Citations: 10000

H index: 50

New Fellow Biographies



Tomoya YOKOYAMA, Position: Associate Professor, Organization: The University of Tokyo, Japan

Expertise: Wood chemistry

Awards:

Apr./1997 JSPS Research Fellow for Young Scientist (for doctor course students)
Apr./1999 JSPS Research Fellow for Young Scientist (for post-docs)
Oct./2005 2004 Japan TAPPI Prize
Mar./2013 2012 The Japan Wood Research Society Prize

Membership:

Principal Wood Science Achievements:

It is commonly difficult to intentionally control and improve chemical processes of wood components, because the processes were established on the basis of empirical information without the theoretical background. Tomoya's principal achievements are to have clarified the mechanisms during the processes. The followings are his several significant achievements.

Oxygen delignification: The serious degradation of carbohydrates is not caused by molecular oxygen but by active oxygen species, which are generated by decomposition of secondarily produced peroxides. The main AOS is oxyl anion radical, the conjugate base of hydroxyl radical, and its reactivity as well as others' is clarified.

Acidolysis: The reaction rate and route of lignin are dependent on the type of applied acids even when their molar concentrations are the same. The rates are in the order of: $\text{HBr} > \text{HCl} > \text{H}_2\text{SO}_4$. Br^- participates in the reaction most drastically to accelerate it. Br^- also participates in the reaction of carbohydrates to accelerate it.

Alkaline pulping reaction: The β -O-4 bond cleavage is more rapid in syringyl than in guaiacyl units in lignin. This is partly because the syringyl nucleus increases the acidity of the α -hydroxy group and has higher leaving ability than guaiacyl nucleus.

Number of refereed publications: 71

patents: 4

books and chapters: 4

reports: 8

Citations: 770

H index: 17



New Fellow Biographies

Makoto YOSHIDA, Professor, Tokyo University of Agriculture and Technology (TUAT), Japan

Expertise: Biodegradation, preservation

Awards:

Selected Awards: • TUAT President's Award 2017 • Japan Wood Protection Association Award for Academic Encouragement. 2011. • Excellent presentation award. MIE BIOFORUM. 2003.

2) Leading positions: • Executive Advisor to the dean, Institute of Agriculture, TUAT 2019. • Chair of Department of Environmental and Natural Resource Science. TUAT 2019. • Expert Advisor of domestic and international joint use of Deterioration Organisms Laboratory (DOL)/ Living-Sphere Simulation Field(LSF). Kyoto University 2014.

3) Visiting positions: Visiting Researcher, Virginia Tech USA 2015-2016.

4) Selected National & Outreach Efforts: • Executive director of Japan Wood Research Society 2017-present • Editorial Board of Wood Preservation. 2009-present. • Steering Committee chairman of Japan Wood Protection Association Annual Meeting 2017-present • Local committee of International Symposium on Wood Science and Technology 2015. • The committee member for promotion of cutting-edge research. New Energy and Industrial Technology Development Organization 2009-2010. • Annual conference organizer and Editor-in-Chief of presentation program of the Japanese Society of Applied Glycoscience. 2012. • The committee member for future plan discussion in Japanese Society of Mushroom Science and Biotechnology. 2013-2014. • Lecture at Japan-Brazil Symposium of the University and Agriculture Research Institutes. Global Partnership for Sustainable Rural Development based on the Lessons from Japanese Immigrant Farmers in Brazil. In Commemoration of the Centenary of Japanese Immigration to Brazil. 2008.

Membership:

Principal Wood Science Achievements:

Professor Makoto Yoshida, has worked on mechanisms of wood decay caused by wood rotting fungi. The research achievements of wood decay have been published in international academic journals such as JBC, AEM, Sci Rep etc. Notably, Yoshida's group found a cellulose-binding PQQ-dependent pyranose dehydrogenase from the basidiomycete *Coprinopsis cinerea*, which is the first eukaryotic PQQ-enzyme. Based on this finding, Auxiliary Activity family 12 was established as a new family in CAZy database, which is the most commonly used classification of enzymes involved in plant polysaccharide degradation. Yoshida also has promoted international collaborative researches on wood decay mechanisms. For example, Yoshida participated international research team focusing on brown-rot mechanism, which was funded by the Research Council of Norway (BioMim, a \$4 million, four-year project 2015-2018), to improve biorefining processes using brown-rot mechanism, and to protect wood products from decay. In addition, some of Ph.D. students supervised by Yoshida were awarded by research conferences and research associations, for example, Ron Cockcroft Award of IRG50, and 2017 Excellent Female Student Award of Japan Wood Research Society.

Number of refereed publications: 65

patents: 2

books and chapters: 3

reports: 8

Citations: 902

H index: 17



New Fellow Biographies

Timothy M. YOUNG, PhD, Professor, The University of Tennessee, Center for Renewable Carbon, 2506 Jacob Drive, Knoxville, TN 37996-4570, USA

Expertise: Wood technology, preservation

Awards:

- 2018: “2018 Alumni of the Year” - University of Wisconsin, College of Agriculture and Life Sciences,
- 2016-present: Fulbright Specialist – Agricultural Statistics. American-Austrian Fulbright Commission, Vienna Austria
- 2014: Honored as “Distinguished Faculty” at University of Tennessee by Chancellor Dr. Jimmy Cheeks
- 2013-2014: Fulbright Scholar as Visiting Professor. Salzburg University of Applied Sciences, American-Austrian Fulbright Commission, Vienna Austria
- 2011-2014: Executive Officer. Forest Products International Society. Madison, WI. Past President (2014); President (Elected) 2013; President-Elect (Elected) 2012; Vice President (Elected) 2011

Membership:

Principal Wood Science Achievements:

Dr. Timothy M. Young has developed highly successful international research and outreach programs for the forest products industries. His current research programs focus on geospatial statistical modelling for biomass; real-time data fusion; predictive analytics; and real-time statistical process control (SPC). He is recognized by his peers and industry as a leading expert in the ‘Data Sciences’ as applied to forest products industries. His continued focus on process optimization and elementary AI for the forest products industries is having a significant impact on the industry. In recent years, his research program has gained extensive international recognition. His outreach programs have been ongoing for 20+ years with five workshops conducted annually at The University of Tennessee for the sustainable biomaterials and forest products industries. He has trained more than 1,000 people in the sustainable biomaterials and forest products industries during this time period. Deliverables from his extensive grants and contracts have resulted in 282 scientific publications of which 88 appear in peer reviewed journals. He has given more than 100 presentations at professional forest products conferences of which 18 were invited keynote presentations. His service to the forest products profession is highlighted as a Past President of the Forest Products Society serving a four-year term from 2011-2014. He was also awarded the prestigious ‘Alumni of the Year – College of Agriculture and Life Sciences Award’ at the University of Wisconsin in 2018. He is on the active roster as a Fulbright Specialist in Agricultural Statistics with the U.S. State Department.

Number of refereed publications: 88

patents: 2

books and chapters: 1

reports: 26

Citations: 871

H index: 16



New Fellow Biographies

Amy ZANNE, Associate Professor, George Washington University, USA

Expertise: Wood biology, biodegradation

Awards:

- Highly cited researcher 2018, Web of Science and Clarivate Analytics, Cross Field.
- University of Missouri - St. Louis, Gerald and Deanne Gitner Excellence in Teaching Award. 2010
- Research Associate. National Museum of Natural History, Smithsonian Institution, Washington, DC, USA. 2013 – present.
- Affiliate. Computational Biology Institute, George Washington University, Washington, DC, USA. 2013 – present.
- Honorary Associate. Downing Herbarium, Macquarie University, Sydney, NSW, Australia. January 2011 – present.
- Research Associate. Center for Conservation and Sustainable Development. Missouri Botanical Garden, St. Louis, MO, USA. August 2008 – present.
- IdEx Visiting Scholar. University of Bordeaux, Bordeaux, France. September 2015 – August 2016.
- Visiting Fellow. University of Western Sydney, Richmond, NSW, Australia. October 2012 – August 2013.
- Editorial Board: *New Phytologist* (Editorial Board: 2019-present, Advisory Board, 2017-2018), *Journal of Plant Hydraulics* (Associated Editor, 2015-present), *Journal of Ecology* (Associated Editor, 2015-2018), *Frontiers in Functional Plant Ecology* (2011-2014)

Membership:

Principal Wood Science Achievements:

Amy's research interests include understanding 1. How species are constructed to live their lives in locations around the globe with changing environments and 2. How this construction for life affects their afterlives, i.e., how they decompose. Her work has focused on anatomical, morphological and chemical wood construction where she explores macroecological to macroevolutionary questions. She has shown how angiosperm wood construction evolved to allow species to move into novel habitats (e.g., freezing). Amy have also examined how wood construction affects decomposition rates globally. These projects have required assembly of global databases on wood construction traits, decomposition rates, phylogenetic trees, and climatic envelopes. Amy has made these databases free and open to the public. For example, the global wood density database has been the most downloaded on datadryad for many years. Additionally, her lab group has explored the effects of wood construction on plant function and wood decay at field sites in Australia and USA. She also organized a global wood decay project in which she found collaborators via a social media campaign to place wood blocks at 130 sites around the globe. Amy's postdoctoral work showed that vascular sectoriality has predictable anatomical underpinnings and her PhD student found that radial variation in wood density is driven by vessel and fiber traits. In decomposition studies she is showing that wood construction controls decomposition rates via influencing different biotic and abiotic decay agents. Through this body of work, she has influenced how we understand woody species to have evolved, lived, died and decomposed.

Number of refereed publications: 53

patents: -

books and chapters: 2

reports: 25

Citations: 9321

H index: 31



New Fellow Biographies

Meiyun ZHANG, Professor, Shaanxi University of Science and Technology, 111 County Rd, Weiyang, Xi'an , Shaanxi, China

Expertise: Paper manufacture

Awards:

- Second Prize of National Science and Technology Progress Award
- First Prize of Technology Invention Award of the Ministry of Education
- First Prize of Shaanxi Provincial Science and Technology Award
- Second Prize of Technology Invention Award of the Ministry of Education
- Second Prize of Shaanxi Provincial Science and Technology Award
- Third Prize of Shaanxi Provincial Science and Technology Award
- National “10000 Plan” of excellent teachers
- National outstanding science and technology workers
- Special allowance expert of State Council
- National excellent teacher
- China papermaking Cailun Technology Award

Membership:

China Technical Association of Paper Industry
Advisory Committee of China National Light Industry Council
The 8th Committee of Science and Technology Association of Shaanxi Province

Principal Wood Science Achievements:

Professor Zhang has made significant contributions in papermaking and novel use of wood fibres over her 30+ year career. The team she led has concentrated on the high performance paper-based functional materials, which are advanced insulation materials with low density and high strength used in rail transit and the aerospace industry. She has been in charge of over twenty research projects, including the Key Research and Development Project in the National 13th Five-Year Plan (as chief scientist), the National 863 Project and the National Natural Science Foundation Project. She is a leader of “The Teachers’ Team of China with the Huang Danian’s mode” and a leader of the “Sanqin Scholar” innovation team of Shaanxi Province China. She has received many honors including the National Ten Thousands Distinguished Teachers Program, the Expert with Special Allowance from the Government of the State Council, the National Outstanding Teacher, the National Outstanding Scientific and Technological Worker, the China’s Cailun Prize for Papermaking, and the Top Expert with Outstanding Contributions in Shaanxi. She has received 14 awards of science and technology from provincial and central government of China, including 2nd Prize of National Natural Science and Technology Progress awarded by Chinese Government (2015, 2017), 1st (2016) and 2nd (2014) Prize of Technical Invention awarded by the Ministry of Education China, 1st (2011, 2013), 2nd (2003, 2004, 2008, 2015), and 3rd (2002) prize of Science and Technology awarded by Shaanxi Province. She has published more than 490 papers, 6 invited books and has 56 patents issued.

Number of refereed publications: 490

patents: 56

books and chapters: 6

reports: 1

Citations: 3044

H index: 12



New Fellow Biographies

Xiaoyan ZHOU, Professor, Wood Science and Technology, Nanjing Forestry University, China

Expertise: Wood technology, non-wood plant materials

Awards:

- Dec. 2018: China Excellent Patent Award.
- June 2006: L.J. Markwardt Wood Engineering Award, Forest Products Society.
- Dec. 2011: 2nd prize of Liangxi Forestry Science and Technology Award.
- Jan. 2011: New Century Excellent Talents in University, Ministry of Education.
- Sept.2013: China Youth Sci-Tech Awards in Forestry, State Administration of Forestry.
- Aug. 2017: National Outstanding Teachers in Forestry, State Administration of Forestry.
- May 2014: Advanced Bio-composites Technology Innovation Team Leader of “Qinglan Project”, Jiangsu Province.

Membership:

Member of International Society of Wood Science and Technology (SWST)
Permanent member of Biomass Materials Science Branch of Chinese Society of Forestry (CSF)
Permanent member of Wood Science Branch of Chinese Society of Forestry (CSF)
Permanent member of Natural Fiber Committee of Chinese Society of Composites (CSCM)
Member of National Forestry Biomass Materials Standardization Technical Committee
Deputy Secretary-General of Plywood Professional Committee of China Forest Products Industry Association

Principal Wood Science Achievements:

Dr. Zhou has 24 years R&D and teaching experience in wood science and technology. She is the national key discipline leader of Wood Science and Technology at Nanjing Forestry University. She has been engaged in surface modification of biomass materials and development of value-added bio-composites for a long time. Up to now, she has been responsible for more than 30 scientific research projects from government including 3 projects from National Natural Science Foundation of China. 14 scientific research achievements have been appraised by government departments, 158 papers has been published and 51 invention patents has been authorized. Her successful research on the manufacturing technology of plasma modified environmentally friendly wood composites won the Technical Invention Award from Ministry of Education and China Excellent Patent Award. This technology has been applied to industrial production lines and has achieved significant economic and social benefits. The amount of adhesive can be reduced by 10~25% compared with the conventional dosage while not compromising the end product quality, which significantly reduces the production cost, improves the environmental quality indicators, increases the added value of wood composites and leads the technological innovation of the wood-based panel industry in China. Dr. Zhou’s current research interests are biomass-based carbon materials by using plasma treatment from lignin, cellulose and hemi-cellulose, such as carbon fibers, carbon dots, carbon aerogel and activated carbon, which innovates the activation method of carbon materials and opens up new application fields of agricultural and forestry biomass resources in the strategic emerging industries of new materials.

Number of refereed publications: 158 patents: 51 books and chapters: 3 reports: 21

Citations: 494 **H index:** 13



New Fellow Biographies

Tanja ZIMMERMANN, Head of Functional Materials Department, Member of the Board of Directors Swiss Federal Laboratories for Materials Science and Technology (EMPA) , Switzerland.

Expertise: Wood anatomy, wood biology, wood chemistry, wood physics, biodegradation, fibre chemistry, fibre physics, biomass

Awards:

Management board Swiss wood innovation network (founding member), and "Forum Holz" (Swiss federal office for the environment, CH); member of the American Chemical Society, and the pulp and paper organization, Tappi; lecturing tutor ETH and University of Applied Sciences, Zürich; "Bund Deutscher Holzwirte"- Award for best doctoral thesis 2007, "Collano Förderpreis" Innovation 2004, "Silberner Cadre d'Or, Baukader CH" for the Vision Wood unit in the NEST project of Empa; Referee for numerous journals; Swiss delegate for different COST actions, consortium member in several European framework programs and projects; member of organization panels or advisory boards for international conferences, organizer of local wood- or cellulose related events.

Membership:

Principal Wood Science Achievements:

Dr. Zimmermann has about 25 years R&D and teaching experience in wood and cellulose science and technology. She has published about 89 SCI(E) papers, several book chapters and technical reports regarding wood sciences and technology or cellulose-based materials related topics. Dr. Zimmermann was heading the Applied Wood Materials Lab of Empa in Dübendorf, Switzerland for several years and worked on numerous basic and applied research projects in close collaboration with industrial partners. Her successful work on cellulose-based materials is well-accepted in the national and international research community. Dr. Zimmermann's current research interest is the development of functional bio-based materials by 3D printing techniques. She teaches wood science and technology for bachelor and master students and is a member of relevant wood networks in Switzerland. She took over new management tasks in 2017, and is now responsible for about 200 co-workers in her research department.

Number of refereed publications: 89

patents: 5

books and chapters: 4

reports: 15

Citations: 3197

H index: 27

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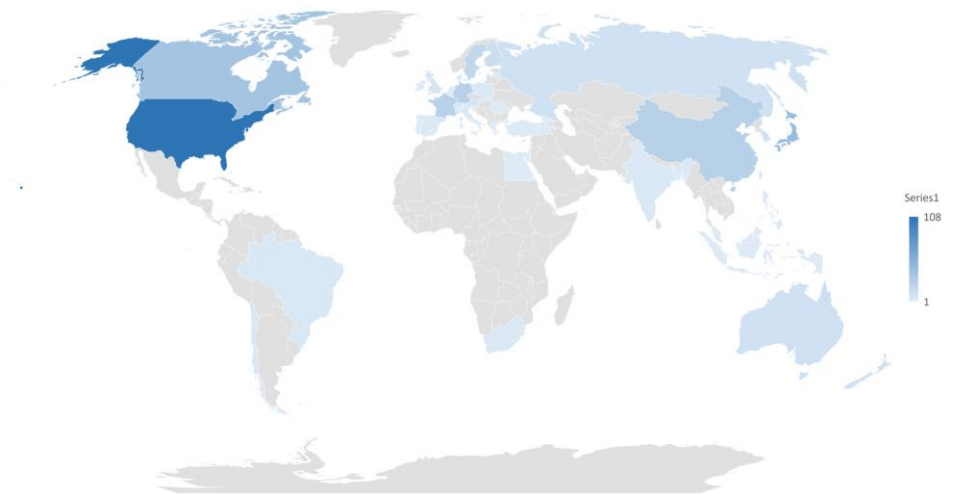
[NOMINATION PROCEDURE FOR](#)

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IAWS Membership Report

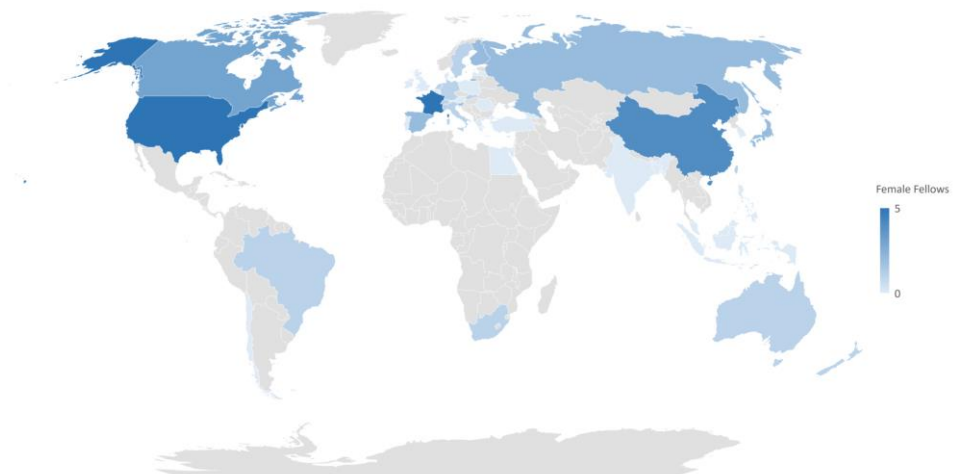
Distribution of Fellows by Country: 42 Countries, 401 Fellows. 9% of fellows are female.

Distribution of Fellows



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Distribution of Female Fellows



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Affiliated Members elected in 2017

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

Affiliated Members elected in 2016

Vietnam Forestry University, Hanoi, Vietnam
Seoul National University, Seoul, Korea
International Center for Bamboo & Rattan, Beijing, China
Göttingen University, Göttingen, Germany

Fellows elected in 2018

Alfredo Aguilera, (Chile)
Paul Gatenholm, (Sweden)
Galina A. Gorbacheva, (Russian Federation)
Chunde Jin, (China)
Nam Hun Kim, (Korea, South)
Per Tomas Larsson, (Sweden)
Seung-Hwan Lee, (Korea, South)
Alex C. Wiedenhoeft, (USA)
Yafang Yin, (China)
Joe R. H. Zhao, (Canada)

Fellows elected in 2017

Umesh Agarwal (USA)
Junyou Shi (China)
Alain Celzard (France)
Nicolas Brosse (France)
Youngcan Jin (China)
Yuzou Sano (Japan)
Andrey Pranovich (Finland)

Fellows elected in 2016

Joris van Acker, (Belgium)
Katarina Cufar, (Slovenia)
Phillipe Gerardin, (France)
Yonghao Ni, (Canada)
Byung-Dae Park, (Korea, South)
Xiping Wang, (USA)
Cordt Zollfrank, (Germany)

Chair of Academic Board elected in 2016

Pieter Baas The Netherlands

New Board Members elected in 2016

Geoffrey Daniel Sweden
Ana Gutierrez Spain
Alfred Teischinger Austria
Siqun Wang USA

Fellows deceased in 2020

Fritz SCHWEINGRUBER, Switzerland

Fellows deceased in 2019

Marian BABIAK, Slovakia
Robert KENNEDY, Canada

Fellows deceased in 2018

Mikhail ZARUBIN, Russian Federation
Hikaru SASAKI, Japan
Wayne WILCOX, USA

Fellows deceased in 2017

Peter ALBERSHEIM, USA
Kazumi FUKAZAWA, Japan
Takayoshi HIGUCHI, Japan
Peter F. NELSON, Australia
Dereck H. PAGE, Canada.

Fellows deceased in 2016

Ants TEDER, Sweden
Emmanuel POPPEL, Romania
Josef SCHURZ, Austria
John David BARRETT Canada
Ramon ECHENIQUE-MANRIQUE, Mexico
Kunio HATA, Japan

Deceased Fellows (2010 - 2015)

John M. HARRIS (2010) New Zealand
Shinji HIRAI (2010) Japan
Tamio KONDO (2010) Japan
Otto R. GOTTLIEB (2011) Brazil
Huntly HIGGINS (2011) Australia
Knut O. LUNDQUIST (2011) Sweden
Hubert POLGE (2011) France
Stanley K. SUDDARTH (2011) USA
Jerzy WAZNY (2011) Poland
Abraham FAHN (2012) Israel
Wolfgang KNIGGE (2012) Germany
Harold TARKOW (2012) USA
Anne-Marie CATESSON (2012) France
Eugene ZAVARIN (2012) USA
B.J. ZOBEL (2012) USA
Wilfred A. CÔTÉ (2012) USA
Horst H. NIMZ (2013) Germany
John D. BRAZIER (2013) United Kingdom
Fernand BARNOUD (2013) France
Gösta BRUNOW (2013) Sweden
Shigeo ISHIDA (2013) Japan
Thomas M. MALONEY (2014) USA
Sandor MOLNAR (2014) Hungary
Geza IFJU (2014) USA
John ERICKSON (2014) USA
Paul KIBBLEWHITE (2015) New Zealand
Börje K. STEENBERG (2015) Sweden
Boris N. UGOLEV (2015) Russia
Rolf BIRKELAND (2015) Norway

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
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
FORESTRY & FOREST PRODUCTS RESEARCH INSTITUTE, Japan, www.ffpri.affrc.go.jp
FP INNOVATIONS, Canada, www.fpinnovations.ca
FRAUNHOFER-INSTITUTE OF WOOD RESEARCH, Germany, www.wki.fraunhofer.de
HOLZFORSCHUNG MÜNCHEN, Germany, www.holz.wzw.tum.de
RISE - RESEARCH INSTITUTES OF SWEDEN, Sweden, www.ri.se/en
INTERNATIONAL CENTRE OF BAMBOO AND RATTAN, China, www.icbr.ac.cn/en
INTERNATIONAL WOOD CULTURE SOCIETY, USA, www.iwcs.com
KYOTO UNIVERSITY, Japan, www.rish.kyoto-u.ac.jp
MISSISSIPPI STATE UNIVERSITY, USA, www.cfr.msstate.edu/forestp
OREGON STATE UNIVERSITY, USA, www.woodscience.oregonstate.edu
SCION, New Zealand, www.scionresearch.com
SEOUL NATIONAL UNIVERSITY, Republic of Korea www.adhesion.org
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, Vietnam, www.vfu.edu.vn
WOOD TECHNOLOGY INSTITUTE, Poland, www.itd.poznan.pl

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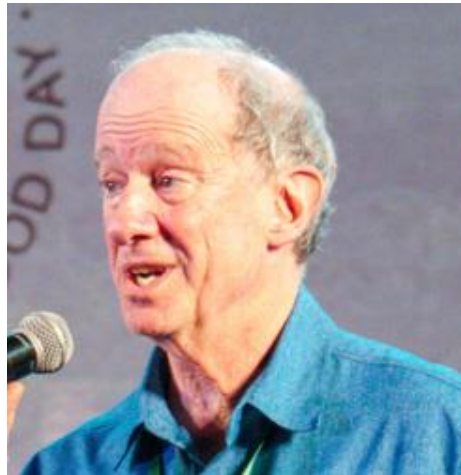
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Treasurers report - Update

This will serve as a brief update of IAWS finances as of November 4, 2019. We have added 21 new members this year and 79% of all Active and Retired Members have paid their dues. Also, 24 out of 26 Affiliate Members have paid. For those who are not current in their dues, please send in your payment as soon as possible. We now have about \$39,000 in Capital One Bank checking account, \$6,900 in a PayPal account, \$35,000 in a bank CD, and \$80,000 in a mutual fund—for a grand total of about \$161,000 in assets. This total was an 8.3% increase in assets since the last Report in May, mainly related to the increase in the US Stock Market. IAWS continues to be financially sound.

Howard Rosen, IAWS Treasurer



General News

Fellow Ryo FUNADA, Prof. of Tokyo University of Agriculture and Technology, Japan, takes over as President of the Japan Wood Research Society from last July. His term is two years.

Fellow Byung Dae PARK, Prof. of Kyungbuk National University, Korea, was elected as the President of the Korea Society of Wood Society and Technology. His term starts next March, 2020.

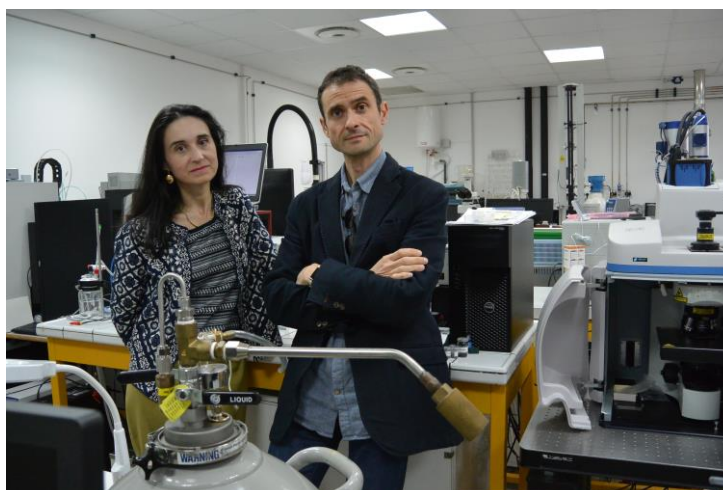
Charles E. Pettinos Award

Alain Celzard, professor at the University of Lorraine, and Vanessa Fierro, research director at the CNRS, both researchers in the team “Biosourced Materials” at the Institut Jean Lamour (IJL - Epinal branch), received the Charles E. Pettinos Award 2019 from the American Carbon Society

The Charles E. Pettinos Award is an international award aimed “to recognize recent outstanding research accomplishments of an individual or group in the science and/or technology of carbon materials”. It is awarded by the Charles E. and Joy C. Pettinos Foundation, and administered and presented by the American Carbon Society once every 3 years. It commemorates the contributions of Charles E. Pettinos, a pioneer in the graphite industry, and is currently one of the most prestigious honors of the American Carbon Society.

The works for which the team of IJL, based in Epinal and hosted on the premises of ENSTIB, were honored, focus on the extreme diversity of carbon-based materials derived from tannins, molecules extracted from wood from which a multitude of carbon forms for energy, environmental and electromagnetic applications have been prepared and their application performance has been demonstrated. The team received the award on July 18 at the World Carbon Conference, Carbon 2019, in Lexington, Kentucky (USA). It consists of a personalized plaque, the sum of \$ 5,000 and a contribution to travel costs for attending the conference and for living expenses and other expenses during the conference. On this occasion, Alain Celzard and Vanessa Fierro gave a plenary lecture in relation to the Pettinos Award entitled « “Green”, innovative, versatile and efficient carbon materials from polyphenolic plant extracts ».

This recognition demonstrates that biomass can be the source of academic work and high-tech materials. It also argues for a massive use of bioresources as precursors of carbon materials, whose performances are not inferior to those of their synthetic counterparts, in a critical context of depletion of raw materials. This is the first time since the award was created in 1969 that it was awarded to a research group. Alain Celzard is the third Frenchman and Vanessa Fierro is the third woman in the world and second European to receive this honor.



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General News

The journal Cellulose Chemistry and Technology 53 (9-10), 2019 was issued. It is dedicated to the 70th anniversary of the Department of Pulp and Paper at the Technical University of Iasi, Romania and it can be accessed at web page: <http://www.cellulosechemtechnol.ro/onlinearticles.php>

Prof. Valentin Popa, member of IAWS
Editor in chief of the journal Cellulose Chemistry and Technology

Fellows Pieter Baas and Elisabeth Wheeler were fare welled from their roles as editors in chief of IAWA Journal with a dinner held in Leiden in October.



Angela Balzano was awarded the IW Bailey award recently. Her study analyses robust samples of two Mediterranean tree species *Arbutus unedo* and *Pinus pinea*, showing the effects of rainfall and temperature on the formation of intra-annual density variations in the wood. Different plastic responses in these two species are demonstrated, primarily to rainfall in *Arbutus unedo*, and in the more deeply rooting *Pinus pinea* primarily to temperature. The panel emphasized that this study significantly increases our understanding of responses of wood formation to environmental factors in order to optimize hydraulic architecture throughout the growing seasons. The judges, including a number of IAWS fellows, also praised the impressive curriculum vitae of Angela Balzano, which bodes well for her scientific career.



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General News

Springer 2019

Handbook of Materials for Wind Musical Instruments

Authors: Bucur, Voichita

Hardcover ISBN 978-3-030-19174-0; eBook ISBN 978-3-030-19175-7;

DOI10.1007/978-3-030-19175-7; Publisher Springer International Publishing 2019

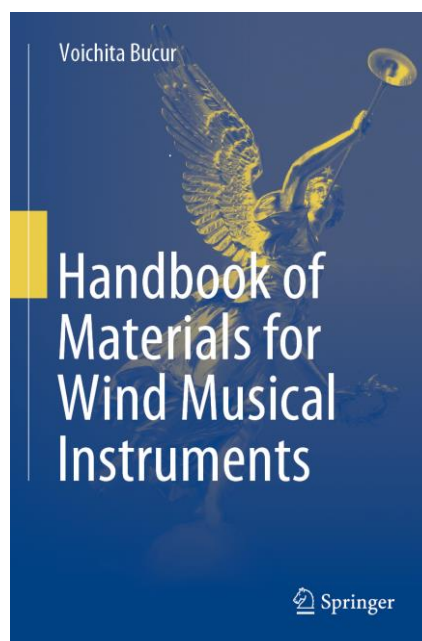
This book addresses key questions about the materials used for the wind instruments of classical symphony orchestra such as flutes, clarinets, saxophones, oboes, bassoons and pipe organs. The content of this book is structured into four parts. (21 chapters, 819 pages)

Part 1- Description of materials for wind instruments deals with wood species and materials for reeds used for making clarinet, oboe and bassoon- and, with metallic materials and alloys for - horn, trumpet, trombone, etc. Auxiliary materials associated with the manufacturing of wind instruments are felt, cork, leather and parchment.

Part 2- Basic acoustics of wind instruments, in which are presented succinctly, some pertinent aspects related to the physics of the resonant air column. An important aspect discussed is related to the effect of wall material on the vibration modes of the walls of wind instruments. The methods for measuring the acoustical properties of wind instruments are presented.

Part 3- Manufacturing of wind instruments, describes the technology used in manufacturing metallic tubes and pipes made of wood.

Part 4 - The durability and degradation of materials addresses data about methods for cleaning wind instruments, studies factors producing degradation of organ pipes, describes methods of conservation and restoration of brass instruments and of historical pipe organs. Finally, the properties of marble are described, being the only one nondegradable and sustainable material used for pipes for organs.



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Obituaries

Dr. Marian Babiak, passed away peacefully in the presence of loved ones on 17th December 2019, aged 71. He was a Professor Emeritus at University of Zvolen in Slovakia and ended his career at the Czech University of Life Sciences Prague. He was General Co-Chair of the 2014 International SWST Convention which was held in Zvolen.



On behalf of Elisabeth Schweingruber and with great sadness we regret to inform you that her beloved husband Fritz Hans Schweingruber passed away in the presence of his family on January 7th, 2020 in Birmensdorf, Switzerland.

We all mourn the passing of a true giant in wood anatomy and tree-ring science. Fritz was an Honorary Member of IAWA, and the founder of the WSL Dendrosciences group in the early 70's, a pioneer and a worldwide outstanding tree-ring researcher and wood anatomist, and an enthusiastic teacher and supervisor. Although retired since nearly twenty years, he stayed active in research until the very last day. His demise is a great loss for the DendroSciences group, IAWA, and the whole wood research community, many of us lost a former supervisor, mentor, colleague and friend. His immense contributions to the field will long live after him.

We would like to express our sorrow and deepest condolences to his family.



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Guidelines for Highlights

The purpose of the Highlights, published in the Bulletin, is to promote the integration of the fields of wood science. Fellows are encouraged to submit Highlights to any of the Officers.

Highlights should:

- Be free of jargon and highly technical language and (unexplained) acronyms, and be readily understood by wood scientists in other fields
- Be no more than 1000 words (roughly 4 pages in the Bulletin)
- Begin by providing a brief background or framework to put the report in perspective
- Give due credit to the work of others in the field, not just summarize the author's work
- Contain important references to the literature for further reading
- Finish with a statement of future direction in the area

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Nomination for Election of Fellows

The nomination process is relatively simple; all you need to do is fill in the Nomination form and send it to me. For those to be considered in the next election, the deadline for receipt of nominations is 30 September.

I then contact the nominee, confirm their willingness to stand for election, and then have them complete the more detailed application form. The Executive Committee reviews the nominees to determine if their applications are complete, and then, in early November, submits the completed applications to the membership for ballot.

Typically, scientists who are nominated are either mid-career, showing great promise and accomplishments, or near the end of their career, when their peers feel that they have made major continuing contributions over their professional life.

There are two areas of Fellowship that are under-represented in IAWS. One is Fellows from developing countries, where the number of refereed scientific contributions, as viewed by the developing world, may be somewhat lacking because of the past or current inability to publish in the leading journals, and/or difficulty with the English language. The other area relates to the few numbers in certain scientific disciplines; if you are in one of those, you are aware of that. The Executive Committee is also interested in election of wood science managers who have had a major impact through their oversight of research activities, without necessarily having the expected number of refereed publications.

Please spend some time thinking about potential nominees, perhaps looking through the Directory and the listing of Fellows by countries. Since we do not “promote” ourselves to gain members, it is up to the Fellows in the Academy to provide the basis for this recognition.

Robert Evans

NOMINATION FORM

Nomination for Fellowship of the International Academy of Wood Science

Name of Candidate: Position of Candidate: Candidate Mailing Address:

Candidate email address (required!):

Candidate's Background (maximum 100 words):

Reasons for the candidate's nomination (outstanding in his/her field; substantial contributions to wood science; major results in management of research; etc):

Date:

Nominator name:

Email address:

Telephone:

Please return to: Robert Evans

robertxevas@gmail.com

Imprint

Editorial

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Germany

Responsible for contents

Dr. Robert Evans - President
Dr. Lloyd Donaldson – Secretary

IAWS

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