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IAWS Bulletin



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[Lloyd Donaldson](#)

Message from the President



Whenever times are tough, we know that better days are ahead. When danger is, grows the saving power also (F. Hoelderlin). In the last two years we have faced extreme difficulties in our daily life. However, the moment of connection is not far away and fortunately normality is steadily gaining foothold. We'll be closer, wiser and smarter than in the past. This year we are fortunate to elect fourteen new fellows from 12 countries; Australia (2), Canada, China, Finland, Greece, Japan, New Zealand, Philippines, Russia, Sweden (2), Switzerland, and USA (details are shown in this Bulletin). The Academy is very proud of our human resources comprising diverse geography, genders and disciplines. The extraordinary academic achievements of new fellows and their continued devotion to their research works should be our assets and they bring huge honor to the Academy.

Holding an annual meeting is an important activity of the Academy. Unfortunately, we have not had our own meeting in the last two years because of the COVID-19 pandemic. Let's hope that we are able to get together next year at the IUFRO All Division 5 Forest Products Meeting at Cairns, Australia 4-8 June 2023. This year, the Academy co-organized the World Wood Day Online Symposium together with the International Wood Culture Society and IUFRO Forest Products Culture Colloquium. Fellow Siqun Wang organized the IAWS special session in the symposium and many of our fellows and IAWS PhD awardees presented their hot topics, yet we suffered from low attendance.

Nature has its ups and downs. However, we are greatly saddened with the recent loss of several of our fellows. Past president Frank Beall (USA), and Gunter Schultze-Dewitz (Germany) passed away. We fondly recognize and greatly admire not just their tremendous scientific achievement but also their devotion and leadership for the progress of the Academy. The passing of time is inevitable, yet all is not lost. Although we can no longer enjoy their physical presence, they will always remain in our thoughts and memory, and we pray for their eternal peace.

The Academy shows a very sound financial status due to the extraordinary management by Howard Rosen. I wish to acknowledge the expertise of Howard. In the recent past, several fellows have suffered from spam mails, and I express my personal sorrow for the suffering caused. Someone hacked my e-mail address and used it for phishing. Despite these unexpected and annoying e-mail troubles, let's be determined to stay in touch. Stay safe and healthy, and save your hugs for our next meeting.

Yoon Soo KIM

Election of new fellows 2021

Fourteen new fellows were elected from the 2021 election. We welcome to the academy the following new fellows:

Prof. Dr. Menandro N. Acda, Professor, Department of Forest Products and Paper Science, University of the Philippines Los Baños, College, Laguna 4031, Philippines.

Dr Henri Bailleres, Product Development Manager, Hyne Timber, Australia.

Prof. Dr. Mikhail Balakshin, Professor of Practice, Aalto University, Finland.

Dr Warren J. Grigsby, Senior Scientist and Research Leader, Scion, Rotorua 3010, New Zealand.

Prof. & Dr. Minjuan HE, Distinguished Professor, Head of Timber Structures Research Centre, Tongji University, China.

Prof. George I. Mantanis, Head of the Laboratory of Wood Science & Technology, Faculty of Forestry, Wood Sciences and Design, University of Thessaly, Karditsa, GR 43100, Greece.

Prof. Aji P Mathew, Professor, Department of Materials and Environmental Chemistry, Stockholm University, Sweden.

Prof. Dr.-Ing. Frédéric Pichelin, Head of research and head of the institute for materials and wood technology, Dept. Architecture, Wood and Civil Engineering, Bern University of Applied Sciences, Switzerland.

Prof. Dick Sandberg, Chaired Professor, Head of Wood Science and Engineering at Luleå Univ. of Technology, Sweden.

Prof. Rubin Shmulsky, Professor and Department Head. Sustainable Bioproducts Department, College of Forest Resources / Forest and Wildlife Research Center, Mississippi State University, USA.

Prof. Taraneh Sowlati, Professor, University of British Columbia (UBC), Canada.

Prof. Yuki Tobimatsu, Associate Professor, Research Institute for Sustainable Humanosphere, Kyoto University, Japan.

Prof. Aleksander V. Vasilyev, Director of Institute of Chemical Processing of Wood Biomass and Technosphere Safety of Saint Petersburg State Forest Technical University, Saint Petersburg, Russia.

Prof. Ning Yan, Tier 1 Canada Research Chair and University Distinguished Professor, University of Toronto, Canada.

Election of new fellows 2021

Prof. Dr. Menandro N. Acda, Professor, Department of Forest Products and Paper Science, University of the Philippines Los Baños, College, Laguna 4031, Philippines.



Curriculum Vitae: Education: Postdoctoral (1996), Oregon State University, USA; PhD (Forest Products), Oregon State University (1995), USA; MSc (Wood Science and Technology), University of the Philippines Los Baños (1992); BSc (Forest Products Engineering), University of the Philippines Los Baños (1986); Work Experience: Professor (2008 to present), Associate Professor (2005-2008), Assistant Professor (1996-2005), Instructor (1989-1992).

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: The Asian Scientist 100 (2017), The Philippines Promising Star Award (Material Science) (2016), NAST Outstanding Book Award (2008), NSTW Julian Banzon Medal for Applied Research (2007), UNESCO Fellowship (2005), ITTO Fellowship (2002), UPLB Outstanding Researcher Award (2017, 2010), U.P. Scientific Productivity Award (1998-2021); Positions: Chair, Department of Forest Products and Paper Science, UPLB (2005-2011), Chair, Special Technical Committee on Agricultural Sciences (2010-2012), Department of Science and Technology, Accredited Pesticide Researcher, Philippine Food and Drug Administration; Membership: Fellow, Philippine-American Academy of Science and Engineering, National Research Council of the Philippines; Editorial Board: Current Material Science, African Journal of Wood Science and Forestry, Research and Application of Materials Science. Technical advisor to Syngenta Philippines (2012-2016) and other chemical and pest control companies in the Philippines.

Principal Wood Science Achievements: Dr. Acda's research interests include wood-based composites, wood protection and bioenergy from woody biomass. Dr. Acda's research on the use lignocellulosic residues (waste chicken feather, wood wastes, rice husks, waste tea leaves, waste tobacco stalks and leaves, & oil palm residues) helped develop new products and promoted efficient use of natural resources. His research projects on bio-based composites are both innovative and pioneering. He developed the Featherboard®, a cement composite using wood fiber and waste chicken feather for durable and low-cost building materials for tropical climates. He is the inventor of LaharGard®, a physical barrier using volcanic debris (lahar) to prevent penetration and damage of subterranean termites into homes and timber structures. Other notable projects of Dr. Acda are the use of waste tea leaves and waste tobacco stalk as feedstocks for particleboard and additive for plywood glue formulation. Dr. Acda's research projects are funded by competitive grants from local and international funding agencies with results published in international journals and proceedings of conferences from which he received various awards and recognitions. In recognition of his research and pioneering work, Thompson Reuters awarded Dr. Acda the Philippine Promising Star Award in 2016 for producing world class research in Material Science. He was also recognized and included in the Asian Scientist 100 in 2017 for his research on sustainable development. The list includes scientists, innovators and leaders who have made significant contributions to scientific discovery that benefited the academia or industry. In addition to his research work, Dr. Acda is also active in instruction and academic adviser to a number of undergraduate and graduate students in forest products and wood science.

Election of new fellows 2021

Dr Henri Bailleres, Product Development Manager, Hyne Timber, Australia.



Curriculum Vitae:

- 1994 PhD in Wood Science
- 1991 Master in Wood Science (with merit) from ENGREF in Nancy (National School of Rural Engineering, Water and Forestry, AgroParisTech, Graduate Institute in Science and Engineering.
- 1990 Master of Engineering in Wood Industry and Technology from University of Lorraine.
- 1986 Advanced Diploma in Forestry Management from Meymac Forestry School, France.

Dr Henri Bailleres began and continued his career at CIRAD for some 20 years as head of the team focusing on the performance and value of fast-growing plantation wood in tropical and Mediterranean environments. From 2006 to 2019, Henri took the lead of the Forest Product Innovation (FPI) team at the Queensland Government Department of Agriculture and Fisheries (DAF). Henri managed a portfolio of R&D projects for industry as well as ACIAR (Australian Centre for International Agricultural Research) funded aid projects in the South Pacific and Asia in collaboration with several Australian universities and industry partners. He is now the product development manager for one of Australia's largest plantation wood processing companies and supplier of timber for framing and Engineered Wood Products (Glulam and CLT).

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:

Queensland DAF Achievement 2014 and 2017 Awards in the Innovation Category.

Adjunct Associate Professor at Queensland University of Technology

Adjunct Professor at Griffith University

Member of Standards Australia Timber Committee

Principal Wood Science Achievements: Henri's main achievements have been in the resource characterisation and the development of advanced processing technologies and products which have been achieved by identifying, developing, and testing the highest potential of future forest products through processing opportunities developed from both a market/demand and supply perspectives. These accomplishments include:

- Non-destructive testing evaluation (acoustic resonance, NIRS)
- Assessment and prediction of forest resource performance and value.
- Technologies and methods for grading structural products.
- New bonding methods (e.g., aluminum-wood composite).
- New processes (spindleless lathe) and products (veneer-based composites) from young, fast-growing plantations.
- Development of hybrid composite posts, beams and panels.

Election of new fellows 2021

Prof. Dr. Mikhail Balakshin, Professor of Practice, Aalto University, Finland.



Curriculum Vitae: Research and Professional Experience

2018 – current	Professor of Practice in Lignin Chemistry, Aalto University, Espoo, Finland
2017 – 2018	Visiting Scientist, BOKU, Vienna, Austria
2012–2017	Lignin Development Leader, Renmatix Inc., King of Prussia, PA, USA
2010–2012	Senior Director of R&D, Lignol Innovations Ltd., Burnaby, BC, Canada
2009–2010	Senior Research Scientist, Lignol Innovations Ltd., Burnaby, BC, Canada
2002–2009	Research Associate, North Carolina State University, Dept. of Wood and Paper Science, Raleigh, USA
1995–1996	Associate Professor, Dept. of Organic Chemistry, St. Petersburg Forest Technical Academy, St. Petersburg, Russia
1991–1996	Head of Laboratory and Pilot Plant, Lisino Experimental Forestry Station, St. Petersburg Forest Technical Academy, St. Petersburg, Russia

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: Membership on Editorial Boards: *Holzforschung*, *Journal of Wood Chemistry and Technology*, *Molecules*, *O Papel Magazine*, Brazil. Visiting Professor: BOKU University Vienna, Institute of Chemistry of Renewable Resources

Principal Wood Science Achievements: The understanding and development of bio-based solutions to economic and environmental issues is at the core of my research. Over the course of about 35 years in R&D studies and industrial development, my focus has been on the integrated utilization of plant biomass through a comprehensive understanding of the underlying fundamentals of biomass structures and their reactions in various chemical processes. I have developed state-of-the-art methods for isolation and analysis of lignin and lignin-carbohydrate complex (LCC) in different native biomasses as well as process streams in studies on the mechanisms of lignocellulosic conversion in various pulping, bleaching, and biorefinery processes. I have also elucidated the correlation between the structures of lignin and LCCs with lignocellulosic processing parameters and structure-performance relationships in lignin applications.

I was leading technical efforts on the production and commercialization of various lignin and cellulose products derived from Renmatix Plantrose® technology, which is based on subcritical and supercritical water hydrolysis of different types of plant biomass. Most importantly, the research identified specific characteristics allowing to develop biorefinery lignins into high-value products with properties superior to traditional technical lignins. Managed the R&D efforts at Lignol Innovations, an emerging Canadian biorefinery company. The main area of research was the conversion of lignocellulosic materials to various chemical pulps and value-added renewable fuels and chemicals, along with a strong focus on lignin commercial applications.

Election of new fellows 2021

Dr Warren J. Grigsby, Senior Scientist and Research Leader; Scion, Rotorua 3010, New Zealand.



Curriculum Vitae:

2021	Secondment to Fletcher Building Ltd Australasia for technology transfer and commercialization
2003–present	Senior Scientist/Research Leader, Scion (formerly Forest Research)
1997–2002	Scientist, Forest Research (New Zealand Forest Research Institute)
1996–1997	Post-doctoral Researcher, Monash University, Melbourne, Australia.
1994–1996	Post-doctoral Research Fellow, University of California, Davis, USA.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: - Plastics New Zealand winner of Research & New Innovation Award (2019) and finalist, “Bio-based Material of the Year 2019” administered

by Nova Institute Intl. Conference on Bio-based Materials.

- NZBio New Zealand Biotechnology of Year award (2016)
- Scion Science Impact Award (2016)
- Japan Society for Promotion of Science Invitational Fellowship Award (2014-15)
- Air New Zealand Forest Research Excellence in Innovative/Pathbreaking Science Award (2001)
- Editorial board Journal of Wood Chemistry and Technology (2012-present)
- Organising committees Pacific Rim Biobased Composites Symposium, International Wood Adhesives Conference and Biopolymers and Bioplastics Conference (2006-present)

Principal Wood Science Achievements: I have made significant contributions to developing biopolymer systems for use in high performance engineered solid wood products and fibre-based advanced composite materials. This has included synthesis of totally biobased adhesives and resins, developing novel wood modification processes, and adaptation of polyphenolics into materials for industrial and consumer applications.

This research has been underpinned by understanding the wood adhesion interfaces of synthetic- and biopolymer systems across molecular, nano-, micro-scales with this extending to international collaborations and co-authorships with researchers from Europe, North America and Asia.

Through my role at Scion I take a lead in directing and coordinating innovative research efforts as well as industry liaison on both commercial and government-funded research. This has developed process and product improvements, together with innovation processes for using renewables in new materials and technology applications including patented biopolymer resin and wood adhesive systems such as Ligate™ and as wood modification treatments. Moreover, these research activities have been applied at industrial scale for process improvements in wood composite manufacture both in NZ and internationally. The acceptance of my work in high impact journals is a testimony to the high quality and value my contributions add to the promotion of wood science and the esteem it brings to me personally.

Election of new fellows 2021

Prof. & Dr. Minjuan HE, Distinguished Professor, Head of Timber Structures Research Centre, Tongji University, China.



Curriculum Vitae: Dr. Minjuan HE obtained her BSc in Civil Engineering, her MSc and PhD in Structural Engineering from College of Civil Engineering at Tongji University, China in 1985, 1988 and 2001 respectively. She has been working at Tongji University as a full Professor of structural engineering since 2001. As a visiting Professor, she worked at Trento University Italy in 2001 and at University of British Columbia Canada in 2003, respectively. Dr. HE serves as the head of Timber Engineering Research Centre, Tongji University since 2015. She was the director of Higher Education Division, Shanghai Municipal Education Commission from 2013 to 2015; director of the Academic Affairs Office, Tongji University from 2011 to 2013; deputy dean of the College of Civil Engineering at Tongji University from 2003 to 2011.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: Dr. HE is a distinguished professor at Tongji University. She received more than ten national awards on Science and Technology Progress & Teaching Achievement. She is the director of the Laboratory of Prefabricated Timber Structures in the National Engineering Technology Research Center for Prefabrication Construction in Civil Engineering. She is very active in the international and domestic academic on timber engineering. She is a committee member of TC165 Technical Committee of Timber Structures, ISO, deputy director of WG 12 Timber and Bio-based Spatial Structures, International Association for Shell and Spatial Structures (IASS), and deputy director of Committee on Timber Engineering, China Association for Engineering Construction Standardization(CECS). She is on the editorial boards of China Civil Engineering Journal, & Journal of Building Structure. She serves as the principal investigator (PI) for more than 50 research projects from National Natural Science Foundation of China, National Key R&D Program of China.

Principal Wood Science Achievements: Dr. HE has devoted herself to research and education related to timber structures for about 20 years. Her research interests focus on the development of fundamental theory on the performance of engineered wood products and different timber structure systems. They can be summarized as following.

- (1) New constitutive models and rheological models were proposed to better consider the nonlinear mechanical behavior and duration of load effect of wood, and the design values of various engineered wood products were proposed for Chinese timber design codes based on reliability analysis.
- (2) A few novel connections were proposed, the stiffness and loading resisting performance of the connections were significantly increased compared with former techniques.
- (3) Timber-steel and timber-concrete systems were developed for mid-rise and large span timber structures. The performance of such systems under seismic and wind loads were comprehensively investigated through experimental testing, and design procedures were further established.

Dr. HE is the author of 312 refereed technical publications and five books including Timber Engineering, Design Methods of Multi-Story Timber and Hybrid Timber Structures. She also plays an important role in the development of Chinese timber design codes. She is the main committee member for more than ten national codes or standards in China, including the National Code for Design of Timber Structures (GB 50005) and Technical Code of Glued Laminated Timber Structures (GB/T 50708).

Election of new fellows 2021

Prof. George I. Mantanis, Head of the Laboratory of Wood Science & Technology, Faculty of Forestry, Wood Sciences and Design, University of Thessaly, Karditsa, GR 43100, Greece.



Curriculum Vitae: George I. Mantanis received his diploma from the Department of Forestry and Natural Environment (with honours in wood science specialisation) from the Aristotle University of Thessaloniki, Greece (1989), and also, his PhD degree from University of Wisconsin-Madison, USA (1994), after attaining a McIntire-Stennis fellowship. At UW-Madison, he thoroughly studied the phenomenon of swelling of wood and lignocellulosic materials in water and organic solvents, thus creating new understanding for this important topic. Then, he worked at the Forest Research Institute of Thessaloniki during the years 1996-97. For the period 1998-2002, he was employed by the industrial company ACM Wood Chemicals Plc, today Chimar Hellas SA. In 2002, he joined the brand-new Department of Wood & Furniture Design and Technology in Karditsa, Greece, and coordinated its academic realisation from scratch. In 2019, this department was renamed and restructured, and finally merged into the University of Thessaly, Greece.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: Member of the Editorial board of Journal Wood Material Science and Engineering; 2018-present: Research Associate at Luleå University of Technology at Skellefteå, Sweden; 2017-present: Research Associate at ITCR, Cartago, Costa Rica; 2017-present: Co-Editor of the journal Wood Material Science and Engineering; Visiting Scholar, INSC-Toulouse, France (2000); Visiting Scholar, Beijing Forestry University (BJFU), China (2011); DAAD Guest Professor at Georg-August-Universität, Göttingen, Germany (2015 and 2016); National representative for COST Actions: E34, E53, FP0904, FP1303, FP1407; 2006 & 2007: "Rate your Professor", 1st award for excellent teaching at the undergraduate level (TEI of Thessaly, Greece). In leading positions, Prof. Mantanis has served for six years as Chair at the Department of Wood & Furniture Design and Technology (TEI of Thessaly) and academically organised the new department in Greece. At the end of 2017, he was appointed as Co-Editor in the Journal Wood Material Science & Engineering.

Principal Wood Science Achievements: He developed substantial new knowledge on wood swelling in water and organic solvents (Mantanis et al. 1994a-b, 1995a-b, 1997) during his doctorate research which has resulted in a broad international recognition, with several hundreds of citations (>600) in referred journals. In addition, he worked at the industrial sector of wood-based panels producing two patents and co-developing, along with others (Mantanis et al. 2000, 2001), a novel process for fabricating new agriwaste panels, bonded with urea-formaldehyde (UF) resins. Moreover, during the years 2010-2014, he carried out inventive applied research upon the protection of solid wood and wood-based panels using innovative nanocompounds, hence producing original research work in this field (Mantanis et al. 2010a, 2010b, 2013, 2014). One of the most important things is that Prof. Mantanis has developed wood research under hard and troublesome conditions (see: Greek crisis), with an inadequate amount of resources for research and limited analytical equipment at the former TEI of Thessaly, in Greece. Since 1991, he has all these 30 years interacted with many international wood research groups in the area of wood science and wood technology. During the recent years, he fruitfully collaborates -in several PhD research programs- with the wood research group at Luleå University of Technology at Skellefteå (Sweden) in the fire retardancy of solid wood, and, at Instituto Tecnológico de Costa Rica (Cartago, Costa Rica) in the chemical modification of non-durable tropical species, i.e., furfurylation, acetylation. His main research topics include: wood properties, wood-water relationships, chemical modification of wood, wood protection technologies, and fire retardancy of wood and wood-based materials.

Election of new fellows 2021

Prof. Aji P Mathew, Professor, Department of Materials and Environmental Chemistry, Stockholm University, Sweden.



Curriculum Vitae:

2001	PhD in Polymer Chemistry, Mahatma Gandhi University, Kerala, India
2001-2002	Post-Doctoral Researcher, CERMAV-CNRS, Universitet Joseph-Fourier, Grenoble, France
2003-2005	Post-Doctoral Researcher, Norwegian University of Science and Technology, Norway
2005-2007	Senior Project Engineer, Underwriters Laboratories India Pvt. Ltd, Bangalore Feb
2007-2010	Asst. Professor, Luleå University of Technology, Luleå, Sweden

2011 -2016 Associate Professor, Luleå University of Technology, Luleå , Sweden

2015 -2017 Associate Professor, Stockholm University, Sweden

Feb 2017- Professor, Stockholm University, Sweden

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:

Director, Stockholm University Centre for Sustainable and Circular Systems (SUCCeSS) 2021-2023. Chair for Swedish Research Council (VR) Materials Science (NT-18) panel, 2020. Chair for Swedish Research Council (VR) evaluation committee (2019. Indo-Swedish, bilateral call). Member of Chemistry reference group for International Science program (2020 -2024). Member of the Department Board (2018 onwards). Faculty representative in the Stockholm University Environmental Board (2017-2021). Project Co-ordinator: EU FP7 Project Nanoselect Grant No. (2012-2016). Served as PhD Opponent (6) Licentiate opponent (3) and PhD committee member (>20) Invited lectures on Biobased materials and applications (<10).

Principal Wood Science Achievements: Carried out pioneering works in the field of nanocellulose processing and materials based on nanocellulose for different applications including environmental remediation and biomedical applications. The work on nanocellulose as adsorbent for charged pollutants and tailoring of layered membranes with optimal flux, mechanical properties, adsorption capacity as well as antifouling properties has made significant impact in the field of wood based functional materials. This has resulted in 7 patents on nanocellulose based membranes for water treatment.

- Showed the potential of forestry residues and industry side streams to produce nanocellulose with added functionality: Eg lignin nanocellulose with antibacterial and antioxidant properties from bioethanol process residue
- Developed highly functional hybrids based on nanocellulose using graphene oxide, in situ grown metal organic frameworks or inorganic nanowires.
- Developed advanced characterisation methods for studying nanocellulose in liquid environment. In situ liquid stage atomic force microscopy and in situ X-ray scattering (In situ SAXS) studies using nanocellulose and its membranes are worth mentioning as pioneering works.
- Successfully supervised 5 PhDs, 6 postdocs and >25 Master students in the field of biobased materials, with focus on wood based cellulose. Currently supervising 5 PhDs, 3 postdocs and 3 master students.

Election of new fellows 2021

Prof. Dr.-Ing. Frédéric Pichelin, Head of research and head of the institute for materials and wood technology, Dept. Architecture, Wood and Civil Engineering, Bern University of Applied Sciences, Switzerland.



Curriculum Vitae:

1993–1996	Engineer in wood sciences ENSTIB, University of Nancy, Epinal (France)
1996–1999	PhD in wood sciences University of Hamburg, Hamburg (Germany)
1998–1999	Research engineer, Siempelkamp GmbH & Co., Krefeld (Germany)
1999–2001	Assistant to the managing board, Siempelkamp GmbH & Co., Krefeld (Germany)
2001–2014	Head of the research unit material and wood technology, Bern University of Applied Sciences, Biel (Switzerland)
2002–2014	Swiss delegate, COST Domain committee Forestry, their products and services COST Switzerland, Bern (Switzerland).

- Since 2014: Head of the institute for material and wood technology, Bern University of Applied Sciences, Biel (Switzerland).
- Since 2021: Head of research, Bern University of Applied Sciences, architecture, wood and civil engineering, Biel (Switzerland).
- Present: Expert for the Innosuisse, Swiss Innovation Agency, Bern (Switzerland)
Present Member of the research commission, Bern University of Applied Sciences, Bern (Switzerland)
- Since 2020: Executive Board Member of Innovawood (www.innovawood.com)

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: 2012 Design Technology Award, Germany: finalist, Tannin bonded composites 2012 Holcim Award, Africa: finalist, building material from agricultural waste 2006 Swiss Innovation Award, Switzerland: finalist, Welding of wood without adhesive 2005 Descartes Research Prize, London: finalist, EU Tannin Project 2005 Schweighofer Prize, Austria: 1. Preis Holztechnologie, Welding of wood Since 2019: Member editorial Board “journal of renewable materials” USA Since 2015: Member of the wood expert society (www.experts-bois.com), France Since 2015: Member of the scientific committee FCBA (www.fcba.fr) Since 2020: President of the scientific commission of ESB (www.esb-campus.fr)

Principal Wood Science Achievements: Major achievement: after a PhD thesis in the field of tannin-based adhesives (with Prof. A. Pizzi) I have put efforts in the development of this technology at the industrial level. The result is the start of a pilot plant in Switzerland in 2020 and the launch of a start-up using this technology (www.naturloop.com). During the last 20 years, I have also been able to develop and lead an international and interdisciplinary team (materials engineers, chemists, wood specialists) and state-of-the-art laboratories to support this research work. This strategy resulted in the launch of the Institute of Wood Materials and Technology, an internationally recognized institute with 40 researchers, including masters and PhD students.

Election of new fellows 2021

Prof. Dick Sandberg, Chaired Professor, Head of Wood Science and Engineering at Luleå Univ. of Technology, Sweden.



Curriculum Vitae: 2015– Chaired Professor at Luleå University of Technology. 2018– Guest Professor 20% at Czech University of Life Sciences, Faculty of Forestry and Wood Products. 2013–2014 Chaired Professor and head of division of Wood Technology at Luleå Univ of Tech. 2008–2013 Chaired Professor of Forest Products at Linnaeus University (part time during the period 2008-09). 2006–2010 Manager for a sawmill and wood industry group (Seka Industrier AB). 2006–2008 Assistant Professor (lecturer) in Wood Products at Växjö University (part-time). 2003–2006 Technical Manager at the company PrimWood AB (part-time). 2002–2005 Assistant Professor (lecturer) in Mechanical Engineering at Växjö Univ. (part time). 2002–2003 Project leader at the Swedish Institute of Wood Technology Research (part-time). 2001–2002 Project manager at the Centre for Wood Technology development, Bräcke, Sweden. 2000–2001 Technical manager at the wood manufacturing company Nova Wood AB. 1998–2000 Technical manager at the R&D company PrimWood AB (part-time). 1999–2003 Researcher at Wood Technology and Processing, Royal Institute of Technology, KTH (part-time). 1992–1999 Research and development engineer, and PhD student at Wood Technology and Processing, KTH .

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: 2009-Editor-in-chief in the scientific journal Wood Material Science and Engineering. 2006-09 Co-editor. 2005-08 Expert to assist the Research Council of Norway assessing new research field in wood processing. 1996 Winner in the Elmia Trekamp (A “competition” for new innovations in the forest products ind.). 1995-2013 Member of the board of several industrial forest products companies in Sweden. 1993-99 Visiting researcher at EPFL, Lausanne, Switzerland. 1992 Winner in the competition of Skandia Innovation Cup. (A “competition” for new innovations). 2002- Member of 10 committees related to wood science w.w; as many as I can be reasonable active in.

Principal Wood Science Achievements: Within the sphere of wood science, my work can be divided into four parts:

- mechanical and physical properties of wood with the aim of improving the engineering applications of the material.
- quality improvement of sawn timber for joinery and construction work. Development of X-ray computer tomography for research purposes as well for industrial use (together with Microtec company).
- engineered wood products (EWPs), particularly with respect to glued products, and
- durability of wood in outdoor applications, related to studies on wood modification.

I have a special interest in wood technology and processing within the solid-wood value chain, were I also have three of my four patents still used in industry applications. This is also related to my interest in thermo-hydro-mechanical (THM) processing. In the experimental studies, methods have been developed for studying creep phenomena in wood at a microstructural level. These studies were carried out in cooperation with Innventia/RISE, where it was possible to use their advanced microscopy equipment. These studies were followed up by mechanosorptive trials where the influence of various wood parameters was studied. A cooperation was started with EPFL (École Polytechnique Fédérale de Lausanne; Laboratoire des Matériaux de Construction) to study these phenomena. Since 2013, I am the leader of Wood Science and Engineering group of ca. 40 researcher working in the field of wood-materials development (chemistry, modification, and durability), wood processing (sawmilling and further refinement to EWPs), and timber engineering.

Election of new fellows 2021

Prof. Rubin Shmulsky, Professor and Department Head. Sustainable Bioproducts Department, College of Forest Resources / Forest and Wildlife Research Center, Mississippi State University, USA.



Curriculum Vitae:

- Ph.D. in Forest Resources. MS State Univ., Starkville. 1998. Dissertation topic: Factors which affect volatile compound emissions from drying loblolly pine lumber.

- M.S. in Forest Products. MS State Univ., Starkville. 1996. Thesis title: Kiln energy savings by second stage drying.

- B.S. in Building Materials & Wood Tech. Forestry minor. Univ. of Mass., Amherst. Cum Laude. 1995.

2007– Present: Sustainable Bioproducts (Name changed from Forest Products in 2013) Department, MS State Univ., Professor & Head.

2010–2016: Associate Director Sustainable Energy Research Center at MS State Univ.

2004–2007: Forest Products Department, MS State Univ. Associate Professor.

2000–2004: BioProducts and Biosystems Engineering Department, Univ. of MN, Twin Cities, Assistant Professor.

1998–2000: Forest Products Department, MS State Univ., Visiting Instructor.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and

consultancies: Forest Products Society, Outstanding Chapter Award; Food Science Leadership Institute, (Kellogg Foundation), Fellow, 2008-2009. Mississippi Lumber Manufacturer's Association: past board member. Mississippi Forestry Association: past board member. Forest Products Society (past) International Conference Chair; Executive Board Member; Chair, Softwood Lumber Group (2 terms); Chair, Mid-South Section; Trustee, Mid-South Section; Vice Chair Wood Physics and Drying Group (2 terms). Society of Wood Science and Technology (past): Board Member; Chair Accreditation Committee; Vice Chair Accreditation Committee; Membership & Education Committee. Mississippi State University: Fulbright Review Panelist. American Society of Civil Engineers, American Wood Protection Association, Southern Forest Products Association, Forest Products Society, Society of Wood Science and Technology, Southern Pressure Treaters' Association. Provided technical reviews for approximately 8 manuscripts per year over the past two decades. Over the past 25 years I have worked on more than 200 consulting related issues across the U.S.A. and in Canada, China, the Netherlands, and Sweden. These consultancies relate to all types of wood products and structures, including but not limited to: structural lumber, hardwood lumber, softwood and hardwood plywood, oriented strandboard, particleboard, patent infringement, medium density fiberboard, moisture issues, I-joists, building and structural collapses, paperboard, asbestos identification, cabinet failure, scaffold planking, laminated veneer lumber, wood ladders, cooling towers, wood utility poles and crossarms, wood microbiology, and pilings.

Principal Wood Science Achievements: My career research has focused on processing, applications, and performance of wood and wood-based building products. Sawing, drying, mechanical and physical performance are among my areas of focus. I have served as primary investigator or co-primary investigator on \$8-10 million in extramural grant funding. Since 2007 I have served as department head of Sustainable Bioproducts, a comprehensive (research, teaching, outreach) department at Mississippi State University, with a \$4-4.5 million budget, 12-15 faculty, and approximately 30 graduate students. I have advised approximately 15 Ph.D. and 10 M.S. level students (either ongoing or through graduation) and served on 40-50 other graduate student committees.

Election of new fellows 2021

Prof. Taraneh Sowlati, Professor, University of British Columbia (UBC), Canada.



Curriculum Vitae:

July 2015 - Present Professor
July 2009 – June 2015 Associate Professor
July 2002 – June 2009 Assistant Professor (Tenure Track)
August 2001 – June 2002 Assistant Professor (Term Appointment)
Received PhD in Industrial Engineering and Information Systems from University of Toronto, Canada in 2001. Teaching responsibilities at UBC: teaching 3 full courses (each 3-credit): “Industrial Engineering”, “Engineering Economics”, and “Modeling for Decision Support”, and co-teaching of the “Capstone Course”. Currently supervises 6 PhD students and 1 Master’s, Supervised: 8 PhD students, 11 Master’s students, 3 Postdocs, 13 visiting scholars, 35 co-op undergraduate students and 24 undergrad final essays. Served at the University of British Columbia Senior Appointments Committee: member: 2017-2018, Co-chair: 2018-2019 and 2019-2020. Served in numerous committees at the department,

faculty and university levels, as well as academic communities. Organized and chaired workshops and international conferences.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:

2021 INFORMS ENRE Best Publication Award in Natural Resources.
May 2012 Canadian Operational Research Society Service Award.
May 2006 Canadian Operational Research Society Practice Prize Competition, Second Prize
2019-2024 IUFRO Division 3, WP 3.04.2 (Supply Chain Management) Deputy:
2008 – Present Professional Engineers and Geoscientists of British Columbia (EGBC), Member.
2011 – Present Institute of Operations Research and Management Sciences (INFORMS), Member.
Feb. 2002–Present Canadian Operational Research Society (CORS) – Member.
June 2015 – June 2016 Canadian Operational Research Society – Past President.
May 2014 – May 2015 Value Chain Optimization Network, Research Leader.
May 2014 – June 2015 Canadian Operational Research Society – President,
May 2013 – May 2014 Canadian Operational Research Society – Vice President,
2007 – Present International Journal of Data Analysis Techniques and Strategies, Editorial Board Member.
Sept. 2007 – Present International Journal of Applied Management Science, Editorial Board Member:
Canadian Operational Research Society-Institute of Operations Research and Management Sciences International Conference 2022, Vancouver, Canada - Chair.
Canadian Operational Research Annual Conference 2013, Vancouver, Canada - Chair.

Principal Wood Science Achievements: Over the past twenty years, I have led a research group comprising of graduate students, postdoctoral fellows and visiting scholars. We have designed, developed, managed and successfully completed major projects to: 1) utilize forest-based biomass (harvesting and mill residues) for the production of value-added bioproducts, 2) improve the efficiency of wood manufacturing processes, and 3) increase the competitiveness of wood manufacturing mills. My research focuses on modelling and optimizing sustainable and integrated wood products supply chains. The major contributions in my work include incorporating: 1) uncertainties and risks, 2) multiple view-points, 3) multiple objectives, and 4) multiple criteria (economic, environmental and social aspects) in our developed models for improved and coherent decision-making. Our models, results and decision support tools have been used by numerous wood products companies, such as Raywal Kitchens, Pacific Rim, Atlantic Power, Weyerhaeuser, Cloverdale, Nexterra, Mercer Celgar and Western Forest Products, to help them make informed decisions at operational, tactical and strategic planning levels.

Election of new fellows 2021

Prof. Yuki Tobimatsu, Associate Professor, Research Institute for Sustainable Humanosphere, Kyoto University, Japan.



Curriculum Vitae:

2004	B.Sc., Faculty of Agriculture, Kyoto University, Japan
2006	M.Sc., Graduate School of Agriculture, Kyoto University, Japan
2009	Ph.D., Graduate School of Agriculture, Kyoto University, Japan (Supervisor: Dr. Fumiaki Nakatsubo and Dr. Toshiyuki Takano)
2009-2012	Postdoctoral Researcher, Department of Biochemistry, University of Wisconsin-Madison, WI, United States (Supervisor: Dr. John Ralph)
2012-2014	Research Scientist, Department of Biochemistry, University of Wisconsin-Madison, and US DOE Great Lakes Bioenergy Research Center, WI, United States (Advisor: Dr. John Ralph)
2014-2015	Assistant Professor, Graduate School of Agriculture, Kyoto University, Japan

2015- Associate Professor, Research Institute for Sustainable Humanosphere, Kyoto University, Japan

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:

2012	Robert Rabson Award, The American Society of Plant Biologists
2015	Japan Wood Research Society Progress Award, The Japan Wood Research Society
2021	The Lignin Society Progress Award, The Lignin Society (Japan)
2016-2018	Technical Consultant, Zilkha Biomass Fuels (NextGen Biomass Technologies), United States

Principal Wood Science Achievements: The candidate (Yuki Tobimatsu, PhD) is recognized particularly for his work on lignin structure, biosynthesis and bioengineering, including structural elucidation of lignin polymers produced in various woody and non-woody plants, genetic and biochemical characterization of genes/enzymes involved in lignin monomer biosynthesis and polymerization, and exploring molecular breeding and bioengineering approaches for improving production and utilization of plant biomass in biorefinery applications. Taking advantage of his expertise in wood chemistry and analytical chemistry of lignin and polysaccharides (wet-chemistry, solution- and solid-state NMR, mass spectrometry and X-ray techniques), he has also contributed to many chemical and engineering studies aiming to convert woody biomass into valuable chemicals and fuels. Together with collaborators around the world, the candidate has published over 70 peer-reviewed articles in the leading journals in the field of wood science, including *Holzforschung* (5 articles), *Journal of Wood Science* (4 articles), *Journal of Wood Chemistry and Technology* (2 articles) and *ACS Sustainable Chemistry and Engineering* (5 articles), along with high-profile multidisciplinary journals including *Nature*, *Nature Plants*, *Science Advances*, *The EMBO Journal*, *Proceedings of the National Academy of Sciences USA* (3 articles), *Plant Cell* (3 articles), *New Phytologist* (5 articles), *The Plant Journal* (8 articles) and *Plant Physiology* (3 articles). He has also presented a number of invited lectures and served as a scientific committee member and/or session chair at domestic and international conferences concerning wood science.

Election of new fellows 2021

Prof. Aleksander V. Vasilyev, Director of Institute of Chemical Processing of Wood Biomass and Technosphere Safety of Saint Petersburg State Forest Technical University, Saint Petersburg, Russia.



Curriculum Vitae: Was born on the 29th of August 1970 in Leningrad (Saint Petersburg, nowadays). 1992 - Graduated from Saint Petersburg State University (the department of organic chemistry). 1992-1996 – Post-graduate study at the department of organic chemistry at Saint Petersburg State Forest Technical Academy (University, since 2011). 1996 – Defended Ph.D. Degree in Organic Chemistry. 2010 – Defended Doctor Science Degree in Organic Chemistry. 1996-present time – Consequently holding positions at Saint Petersburg State Forest Technical University: Lecturer, Senior Lecturer, Assistant Professor, Associated Professor, Full Professor of the Department of Organic Chemistry, Head of the Department of Organic Chemistry, Head of the Department of Chemistry, Director of Institute of Chemical Processing of Wood Biomass and Technosphere Safety (since 2015). 2011-present time – Collaborative post of a Full Professor at the

Department of Organic Chemistry of Saint Petersburg State University. 2000-2001— Post-Doctoral Fellow at the University of Houston (Houston, Texas, USA) with Professor Jay K. Kochi. 2003 — Post Doctoral Fellow at the University of Louis Pasteur, Strasbourg (France) with Professor Jean Sommer and Professor Patrick Pale. 2006 — Research period in the laboratory of electron spin resonance (ESR) in Institute of Organometallic Chemistry, Nizhny-Novgorod (Russia). 2007 — Invited Professor at the University of Louis Pasteur, Strasbourg, France. 2012 — Invited Professor at Saimaa University of Applied Sciences, Lappeenranta, Imatra, Finland. Leader of 12 research grants sponsored by Russian and International Foundations for the last 10 years. Scientific interests: superelectrophilic activation of organic compounds; chemistry of renewable wood and plant resources; organic synthesis based on renewable wood and plant resources.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:

I.2007-III.2007 — Invited Professor at the University of Louis Pasteur, Strasbourg, France.

IV.2012 — Invited Professor at Saimaa University of Applied Sciences, Lappeenranta, Imatra, Finland.

Scientific memberships: Member of the Mendeleev Russian Chemical Society.

- Member of Editorial Board of Proceedings of Saint Petersburg Forest Technical Academy

<http://spbftu.ru/publikatsii/nauchnoe-izdanie-izvestiya-sankt-peterburgskoj-lesotekhnicheskoy-akademii/>

- Member of Editorial Board of Chemistry of Heterocyclic Compounds, <http://hgs.osi.lv/index.php/hgs/index>

- Member of Editorial Board of Organics, <https://www.mdpi.com/journal/organics/editors>

Principal Wood Science Achievements: Methods of synthesis of novel organic compounds have been developed on the basis of transformation of 5-hydroxymethylfurfural (5-HMF), 2,5-diformylfuran (2,5-DFF), cinnamic acids and their derivatives, which are bio-based platform chemicals obtained from renewable wood resources. Reactions of 5-HMF and 2,5-DFF with arenes under the electrophilic activation conditions by Bronsted, Lewis superacids, and acidic zeolites have resulted in the formation of various arylmethyl substituted furans, which have a great value for preparation of novel biologically active compounds. In the same way, amides and nitriles of cinnamic acids have been transformed into 1,3-diarylpropylamines, which are used as drugs. Method for analysis of structures of native and industrial lignins by means of solid state ¹³C NMR spectroscopy has been developed. Quantitative contents of alkyl-O-aryl bonds and methoxyl groups in lignins by solid state ¹³C NMR spectroscopy have been determined. Ways of valorization of industrial hydrolysis lignin have been proposed. Oxidation of industrial hydrolysis lignin by the hydrogen peroxide in aqueous solution of sulfuric acids has been carried out leading to oxidized hydrolysis lignin (OHL) containing carboxylic groups. The OHL has been converted in other novel functional materials, such as chlorinated lignin, and lignin containing amide and ester functional groups.

Election of new fellows 2021

Prof. Ning Yan, Tier 1 Canada Research Chair and University Distinguished Professor, University of Toronto, Canada.



Curriculum Vitae: Prof. Yan is a leading expert in forest biomaterials science, wood adhesives, and bio-based products with more than 20 years of experience in wood products research and education. She is a Fellow of the Engineering Institute of Canada and obtained her Ph.D. degree from the University of Toronto in 1997.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: Prof. Yan's excellence has been recognized by a number of prestigious awards, including the Government of Ontario's Early Researcher Award and NSERC Discovery Accelerator Supplements Award. She received the Bill Burgess Teaching Award in 2021. She has been elected to be a Fellow of Engineering Institute of Canada. She currently holds a Tier 1 Canada Research Chair in Sustainable Bioproducts and a distinguished professorship from the University of Toronto in Forest Biomaterials Engineering. She was an endowed Chair in Value Added Wood and Composite previously. She is the Director of the Low Carbon Renewable Materials Centre at the University of Toronto. Prof. Yan is an editorial board member of *Polymers* and was an expert consultant for Asian Development Bank for developing a world-class wood products graduate program in a developing country in Asia.

Principal Wood Science Achievements: Prof. Yan has made outstanding contributions in conversion of forest biomaterials into bio-based adhesives, resins, polyols, and advanced functional materials. She is recognized as a global leader in the bio-based products field. Her research has significantly advanced our understandings in wood adhesives systems. Her ground-breaking work in using tree bark to synthesis bioepoxies and bio-based polyurethanes has pinpointed to new green chemistry ways of using forest residues to produce sustainable chemicals. She is a pioneer in producing novel lignin-containing nanocellulose fibrils and applying them to enhance performance of composites, adhesives, sensors and energy storage devices.

Prof. Yan has disseminated 185 peer-reviewed journal publications in top tier scientific journals including *Nano Energy*, *Advanced Functional Materials*, *Green Chemistry*, *ChemSusChem*, *Carbohydrate Polymers*, *ACS Sustainable Chemistry and Engineering*, etc, addressing the knowledge gap between the fundamental theories and applications spanning across the boundaries of wood science, green chemistry, and engineering. She holds 5 patents and has licensed her technology to industry. As a renowned scientist, she has been invited to deliver more than 100 invited talks and keynote speeches globally. As the leading expert in wood adhesives, she has served a co-chair and organizer for the International Conference on Wood Adhesives series since 2010.

IAWS Symposium 2022

World Wood Day Symposium, March 21-22

This symposium was co-organized by the University of Natural Resources and Life Sciences, Vienna (BOKU), International Association of Wood Anatomists (IAWA), International Academy of Wood Science (IAWS), International Union of Forest Research Organizations (IUFRO) Division 5 (Forest Products) including IUFRO Research Unit 5.15.00 (Forest Products Culture), IUFRO Research Unit 9.03.02 (Forest Culture) of Division 9 (Forest Policy and Economics) as well as Estonian State Forest Management Centre (RMK), and with the support of International Research Group on Wood Protection (IRGWP), Japan Wood Research Society (JWRS) and International Society of Wood Science and Technology (SWST). Recordings of the presentations may be available in due course, check the IAWS website for links.

Topic 6: Wood Products and Wood Biotechnology (IAWS Special Session)

Chair: Prof. Siqun Wang, University of Tennessee / IAWS Academy Board Chair

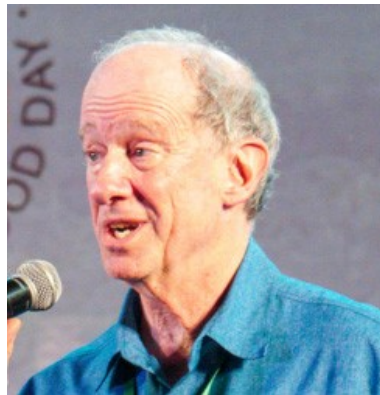
- 15:10-15:45 Keynote- Digital Wood Anatomy - from Tradition into the Future
Gerald Koch, Thünen Institute of Wood Research
- 15:45-16:05 Preparation of Cellulose-based Electrospun Nanofibrous Air Filter for Efficient Particulate Matter Removal
Qijun Zhang Institute of Urban Environment, Chinese Academy of Sciences
- 16:05-16:25 Lignin Complexity and Flexibility: How and Why Do Grasses Produce Lignins Different from Woods?
Yuki Tobimatsu, Research Institute for Sustainable Humanosphere, Kyoto University
- 16:25-16:45 Investigating Interlocked and Spiral Grain with X-ray Microtomography
David Collings, University of Western Australia
- 16:45-17:05 Biochemicals and Functional Materials from Tree Barks
Ning Yan, University of Toronto
- 17:05-17:25 Viscoelastic Behavior of Modified Wood
Andreja Kutnar, University of Primorska & InnoRenew CoE
- 17:25-17:40 Coffee Break
- 17:40-18:00 Pushing the Envelope on Wood Products
Scott Rennecker FIAWS, Department of Wood Science, University of British Columbia, Canada
- 18:00-18:20 Nanostructured Carbon Materials Derived from Tannin as Electrodes for Supercapacitors and Beyond
Jimena Castro Gutiérrez, CNRS Université de Lorraine, France
- 18:20-18:40 Recycling Wood Products – It's Easy, Right?
Mark IRLE, Ecole Supérieure du Bois
- 18:40-19:00 Moisture-induced Stress and Distortion of Wood: A Numerical and Experimental Study of Wood's Drying and Long-term Behaviour
Sara Florisson, Uppsala University
- 19:00-19:20 *Pinus radiata* Plantations Grown in NZ and Wood Products Derived from it - Past, Present and Future
Bernadette Nanayakkara, Scion Research, New Zealand

Financial Report

Following is the audited Treasurer's Report for the calendar year 2021, dated February 20, 2022. The dues have been broken down into several categories. The net change for 2021 was \$36,668. At the end of 2021, 99 of the 118 (84%) Active and Retired fellows and 23 out of 26 of the Affiliate Members were current in their dues. Our CD and mutual fund totals \$156,393 and have been invested in less secure and longer-term investments to obtain higher rates of return. The significant difference between 2021 and 2020 of \$36,668 was mostly due to a significant increase in our indexed mutual fund and no meeting costs because of covid-19 restrictions on travel.

So far as of April of 2022, we have approximately \$56,674 in Capital One Bank and \$6,733 in our PayPal account. Added to our \$150,183 in investments, we have a total of approximately \$213,600 in assets. We continually need funds to support our website, the PhD Thesis/Dissertation Award, the Distinguished Service Award, and technical conferences. Our finances continue to be very good. Because of problems with my work computer, dues notices will be late this year.

Howard Rosen



Financial Report

IAWS Expenses and Revenues--Calendar Year 2020

Revenues (E – extra years paid by a member)

Retired dues (30)	560.00
Active dues (78)	3,900.00
Lifetime dues (12)	5,985.00
Affiliate member dues (30)	5,762.00
Donations (1)	100.00
Total	\$16,307.00

Expenses

Supplies	10.00
Web Site Revision/Managing	1,888.89
Awards	1,000.00
Meetings	0.00
Wire fees Capital One	85.00
PayPal Fees	566.34
Total	\$3,540.23

Income = \$16,307- \$3,540 = \$12,767

Capital One Account

Beginning balance January 1, 2021	38,014.96
Deposits by H. Rosen	1,130.00
Incoming bank wires	3,697.00
Transfers from PayPal	17,016.35
Interest	26.38
Withdrawal – Fees	-85.00
– Wires	-1,000.00
– Checks	0.00
– CG Web Design	-1,650.12
– CG Web Management	-238.77
End Balance December 31, 2021	\$56,910.80

Financial Report

PayPal Account

Beginning balance January 1, 2021	11,645.60
Deposits (67 active, 22 retired, 8 life, 17 Affiliate 13 Affiliate)	12,390.00
Donation	0.00
Transfers	-17,016.35
Payments	-0.00
Fees	-566.34
End Balance December 31, 2021	\$5,879.61

Total Assets

CD Bank Sandy Spring Bank	\$37,185.34
-renewed 9/12/21 at 0.15% for 36 months	
-interest is accumulated	
Vanguard Dividend Appreciations Index Fund	\$119,207.65
-opened 5/23/13	
-dividends are reinvested	

Checking + PayPal Accounts = **\$62,790.41** Total Assets = **\$219,183 (2021)**
\$182,515 (2020)

Net change **2021 – 2020** **\$36,668**

I have examined the books of the IAWS Treasury Account for 2021and have found all the details in satisfactory order.

Frank C. Beall
Frank C. Beall, Fellow, IAWS
Professor Emeritus, UC Berkeley
Date 2/20/2022

Obituary

Frank BEALL (1933 – 2022)

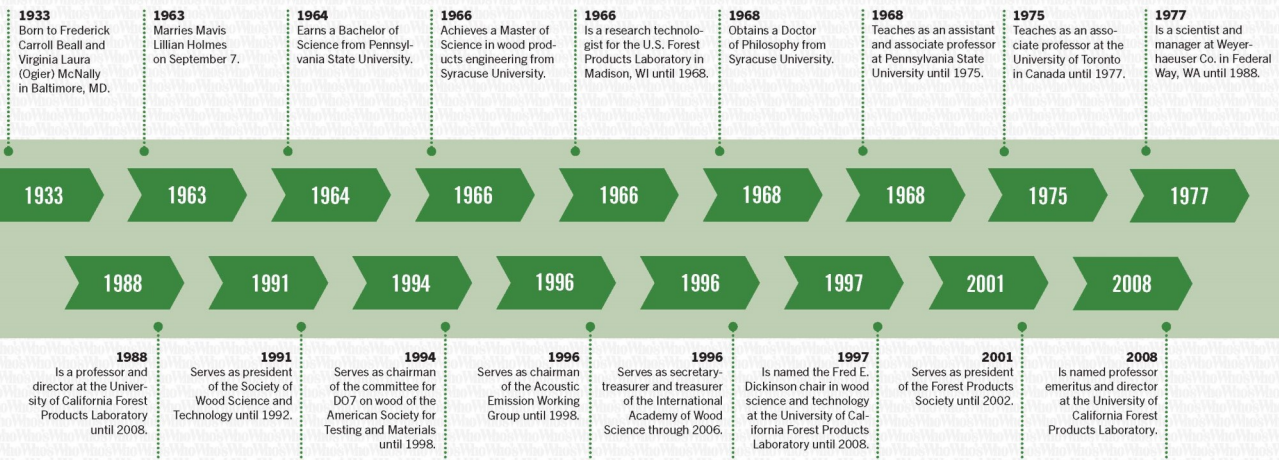
We are deeply saddened by the loss of ex-IAWS President (2008 – 2011) Frank Beall in February this year. A full obituary will be published on the web site and in the next bulletin.

**MARQUIS
Who'sWho®**



FRANK C. BEALL

Professor Emeritus | Director



A Timeline of Professional Milestones

Obituary

Günter SCHULTZE-DEWITZ (19 June 1928 – 17 March 2022)

Am 17. März 2022 verstarb Dr. habil. Günter Schultze-Dewitz im Alter von 93 Jahren.

Geboren und aufgewachsen im brandenburgischen Falkensee nordwestlich von Berlin, studierte er Forstwissenschaften in Eberswalde mit Diplom 1952. Nach Assistenzzeit in Eberswalde und kurzem Aufenthalt am damaligen Institut für Forstkrankheiten in Hannoversch-Münden wechselte er 1958 an die Bundesforschungsanstalt in Reinbek bei Hamburg. Unter der Anleitung von Prof. Dr. Werner Bavendamm promovierte er im November 1961 zum Dr. rer. nat. Das Thema seiner Dissertationsarbeit lautete „Beiträge zur Kenntnis der stimulierenden Wirkung von Holzschutzmitteln auf holzerstörende Organismen“. Noch Ende 1961 entschied sich Schultze-Dewitz nach Eberswalde zurückzukehren. In dieser mit dem Bau der Mauer im August 1961 für Deutschland dramatischen Phase wechselte er von West- nach Ostdeutschland, von einer Demokratie in eine Diktatur.

In Eberswalde nahm Schultze-Dewitz bereits im Januar 1961 seine Tätigkeit im Institut für Physikalische Holztechnologie auf mit den Schwerpunkten Festigkeitsprüfungen an verschiedenen Holzarten sowie Arbeiten zum Holzabbau durch Pilze. Er wurde in der DDR nicht Mitglied der SED, wodurch seine wissenschaftliche Leistung in vielerlei Hinsicht blockiert wurde. Dennoch gelang es ihm, 1969 seine Habilitation erfolgreich abzuschließen. Seine wissenschaftliche Tätigkeit an der Eberswalder Holzforchung brachte zahlreiche Veröffentlichungen hervor, insbesondere zur Normung, zu Fragen rund um den Holzabbau und Holzschutz sowie zu Eigenschaften und Verwendung von Kiefer. Die erschwerten Rahmenbedingungen während der DDR-Zeit ließen ihn an nur wenigen Tagungen in Osteuropa teilnehmen. Schultze-Dewitz veröffentlichte mehr als 150 Arbeiten und wurde durch die Wahl in die International Academy of Wood Science (IAWS) 1991 gewürdigt. Der IAWS fühlte sich Schultze-Dewitz eng verbunden, weshalb er auch nach seiner Pensionierung im Jahre 1993 an diversen Jahrestagungen in Europa, aber auch in Chile und Australien teilnahm.

Wir verlieren mit Günter Schultze-Dewitz einen verdienten Wissenschaftler, hervorragenden Kollegen und guten Freund.

Walter Liese



Eberswalde 2018

Awards

Prof. A. Pizzi of the LERMAB of the University of Lorraine, France has been awarded in December 2021 the International Science Cooperation Prize of the Yunnan (China) Provincial Government for his work in combination with Prof. Guanben Du (also a IAWS fellow) team at Southwest Forestry University in Kunming, Yunnan. The two laboratories have worked jointly on a number of research projects and a number of professors, associate professors and lecturer at Southwest Forestry University have trained for their PhD or as post docs in Prof. Pizzi laboratory. The prize that was proposed by Southwest Forestry university is an honor for both universities as it is a particularly difficult one to get and in reality honors both the two laboratories, Prof. Du laboratory having being originally wished as a joint cooperation between the central China Government and the French Embassy in China. For this reason the Research, Science and Technology Commissioner of the French Consulate in Chengdu, China, was present and also addressed as an honor to France itself the numerous audience present physically and in teletransmission. The prize was accepted for Prof Pizzi (in teletransmission) by Prof. Du.



Meetings

IUFRO Div 5 Conference

The Forest Treasure Chest
Delivering Outcomes for Everyone
4-8 June 2023 Cairns, Australia

The Forest Treasure Chest

Delivering Outcomes
4 - 8 June, 2023

Cairns Convention Centre
Cairns, Queensland
Australia

WELCOME

The Local Organising Committee and the Conference Committee of the International Union of Forest Research Organisations (IUFRO) All Division 5 Conference would like to invite you to Cairns, Australia in June 2023.

Cairns is the gateway to the rest of the Tropical North Queensland region, fly directly to Cairns Airport (domestically or internationally) to discover one of Queensland's most adventurous cities. The weather in June is mild with maximum temperatures averaging 24 degrees Celsius and minimum temperatures averaging 14 degrees Celsius.

<https://www.iufro-div5-2023.com/>

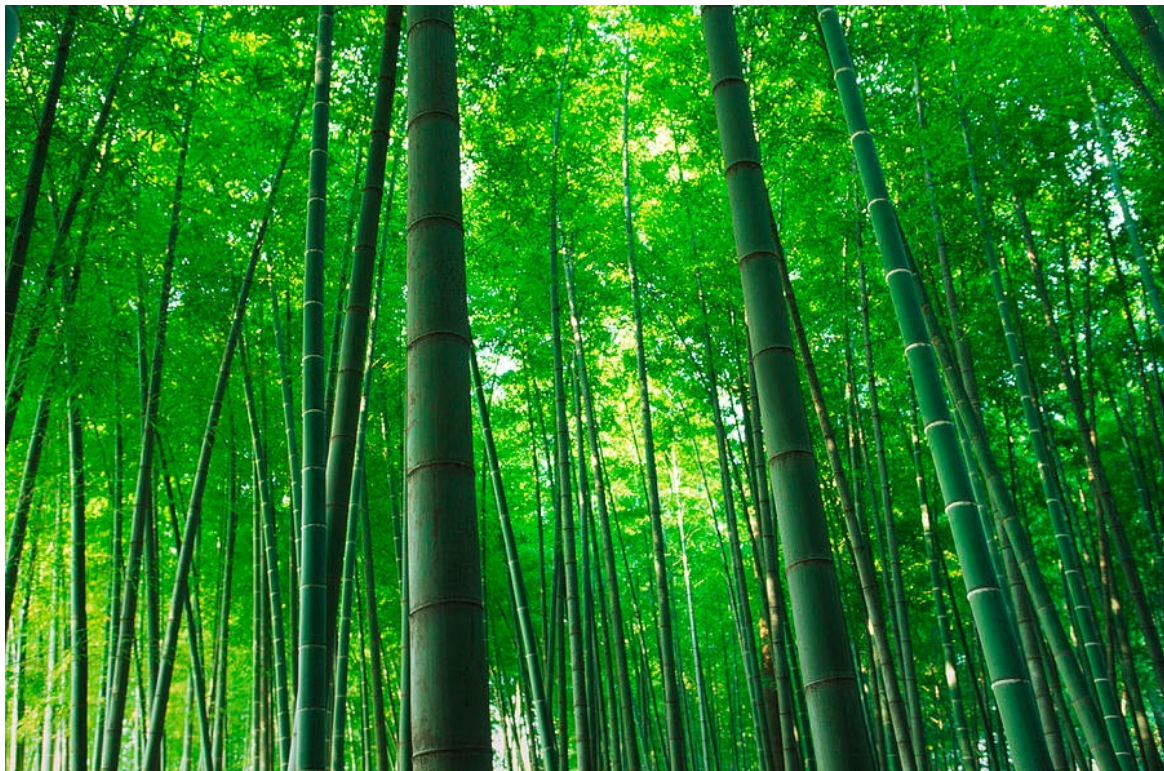
Meetings

Building construction counts for 40% of global carbon emissions. The quest for more renewable building materials has never been more vital.

The Faculty of Forestry of the University of British Columbia, World Bamboo Organization, and Zhejiang Agriculture and Forestry University are hosting the first Conference on Engineered Bamboo for Sustainable Construction, May 17-19, 2022.

Click the link below for free registration to join the discussion with leading academia and industry experts:

<http://bamboconference.com/>



Wood Science & Technology

All in all, the publisher (Springer) is continuously satisfied with the bibliographic and commercial status of the journal. The recent increase in impact factor is taken as positive sign that the scope of the journal, the discipline of wood material science, and the contributions of the wood science community are of continuing relevance within academia and industrial research. Our last year attempt to renew several members of the editorial board was well accepted.

The editorial board is composed of the following colleagues most of whom are IAWS fellows:

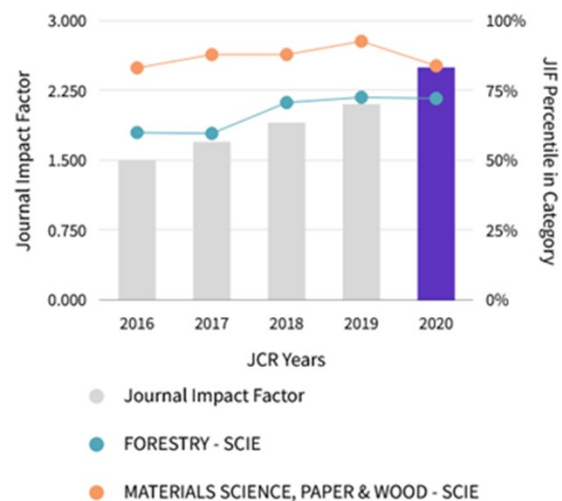
G. Daniel, Uppsala, Sweden
P. Evans, Vancouver, Canada
P. Gerardin, Vandoeuvre-lès-Nancy, France
M. Hughes, Aalto, Finland
F. Kamke, Corvallis, OR, USA
S. Kelley, Raleigh, NC, USA
Y. Matsumoto, Tokyo, Japan
C. Mei, Nanjing, China
S. Nisgoski, Curitiba, Brazil
E. Obataya, Ibaraki, Japan
W. Olek, Poznan, Poland
B. Ozarska, Richmond, QLD, Australia
A. Potthast, Vienna, Austria
L. Salmén, Stockholm, Sweden
P. Saranpää, Helsinki, Finland
U. Schmitt, Hamburg, Germany
Y. Xie, Harbin, China
H. Yamamoto, Nagoya, Japan
Y. Yin, Beijing, China
S. Zelinka, Madison, WI, USA

2020 JOURNAL IMPACT FACTOR
2.506
[View calculation](#)

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS
2.247
[View calculation](#)

Journal Impact Factor Trend 2020

[Export](#)



Journal Impact Factor (JIF)

The JIF of WST nicely increased over the last years and especially in 2020 we improved considerably. However we have to accept that despite this improvement we lost two positions in the ranking in Category Materials Science, Paper and Wood. We are now # 4 of 22 journals, and still in Q1. This is because Journal of Wood Chemistry and Technology improved JIF to 2.63 and Wood Material Science & Engineering has a JIF of 2.55.

Klaus Richter 6/11/2021

Editors-in-Chief: Lloyd A. Donaldson (New Zealand) and Marcelo R. Pace (Mexico)

The IAWA Journal is an international quarterly periodical publishing original papers and review articles on any subject related to the microscopic structure of wood and bark of stems and roots of woody plants (including palms and bamboo). Apart from anatomy per se, subjects at the interface of microstructure and developmental genetics, systematics, paleobotany, archaeology, tree biology, ecology, forestry, structure property relations of timber, biomechanics, wood identification, etc. are welcomed.

Associate Editors

Susan A. Anagnost, Syracuse, NY, USA

Pieter Baas, Leiden, The Netherlands

Anne-Laure Decombeix, Montpellier, France

Arno Fritz das Neves Brandes, Niteroi, Brazil

Keiko Kuroda, Kobe, Japan

Carmen R. Marcati, Botucatu, Brazil

Veronic De Micco, Portici (Naples), Italy

Shuichi Noshiro, Tokyo, Japan

Alexei Oskolski, Johannesburg, South Africa/ St. Petersburg, Russia

Laurie R. Schimleck, Corvallis, OR, USA

Teresa Terrazas, Mexico City, Mexico

Elisabeth A. Wheeler, Raleigh, NC, USA

Yafang Yin, Beijing, China

Journal Impact Factor

2020 Journal Impact Factor: 2.308

5-year Impact Factor: 3.013

Cellulose Chemistry & Technology

Annual Report Cellulose Chemistry & Technology

Now, as we have reached 2022, I thought I'd offer some brief reflections on the year just past. Last year our journal published 101 papers coming from Algeria (5), Argentina (1), Bangladesh (5), Brazil (9), Bulgaria (1), Canada (1), China (4), Costa Rica (1), Egypt (7), Ethiopia (1), Finland (3), France (3), Hungary (1), India (12), Indonesia (2), Iran (5), Malaysia (4), Mexico (1), Morocco (1), Nigeria (1), Pakistan (2), Peru (1), Philippines (3), Poland (1), Romania (3), Russia (2), Serbia (1), South Africa (2), South Arabia (1), Slovenia (1), Spain (1), Sri Lanka (1), Sweden (1), Thailand (1), Turkey (11), Ukraine (2), USA (2). The new impact factor is 1.467. Last year, the magazine celebrated its 55th anniversary. The important results obtained by the journal over the years are due to the scientific contributions made by the authors who submitted papers for publication, reviewers and members of the Editorial and Advisory Board, specialists of authority in the chemistry, physics and technology of polysaccharides and lignin. We extend our warm thanks to all of them, being convinced that they will further provide their valuable contributions to the journal in the following years.

We hope this New Year will be fruitful and we are looking forward to new contributions from you and your colleagues. We warmly welcome your valuable papers and reviews for publication in our journal, as they grant an opportunity to the journal to enhance its quality. Also, we embrace the publication of special issues with you as Guest Editors if you propose a subject of special interest in our field. At the same time, we want to celebrate with special issues our colleagues on the occasion of their birth anniversary. We are interested in sustained collaboration with you invite you to recommend more scientists who could provide their input to our journal as referees and members of the Advisory Board.

Please do not hesitate to contact us to share your ideas and feedback, which may further improve the journal.

Once again thanking you and with warm regards, I wish you a very Happy and Prosperous New Year!

Editor in chief,

Valentin I. Popa, Fellow of IAWS

Journal Ranking

Journal Ranking—Wood Science & Technology (Google Scholar)

	h-index
Cellulose	56
BioResources	40
European Journal of Wood & Wood Products	26
Holzforschung	26
Wood Science & Technology	24
Journal of Wood Science	23
Journal of Bioresources & Bioproducts	22
International Association of Wood Anatomists Journal	21
Journal of Renewable Materials	20
Maderas Ciencia y Tecnologia	20
Journal of Wood Chemistry & Technology	18
Wood Material Science & Engineering	18
Floresta e Ambiente	15
Nordic Pulp & Paper Research Journal	15
Wood & Fiber Science	15
Cellulose Chemistry & Technology	15
Forest Products Journal	14
Wood Research (Bratislava)	13
Acta Facultatis Xylogiae Zvolen res Publica Slovaca	12
Journal of Biobased Materials & Bioenergy	11

Nominations for IAWS PhD Award

The International Academy of Wood Science (IAWS) wishes to provide recognition to outstanding thesis/dissertation research at the PhD level by students throughout the world. I would like you know that the IAWS PhD Dissertation Award for 2022 is open to receive nominations and/or applications. The deadline is **August 15, 2022**. Please consider to nominate your students. Nomination can be made by anyone and is not limited to IAWS Fellows.

Here are the detailed rules:

- The competition is limited to students receiving their degrees in other than their native country.
- The purpose is to foster and recognize cross-national interaction.
- The submission shall be no more than 2 pages of an extended abstract (in English) of the dissertation, a one-page CV of the student, and a recommendation letter from the student's advisor
- The submission can be by the student and/or the student's advisor.
- The thesis/dissertation must have been completed within one year prior to the yearly announcement.
- The documentation shall be sent by email to the president and secretary.

Fellows Report

Distribution of Fellows by Country

Country	Number of fellows	Females
Australia	17	1
Austria	15	2
Bangladesh	1	
Belgium	2	
Brazil	5	1
Canada	44	5
Chile	4	
China	32	5
Costa Rica	1	
Czechia	2	
Denmark	5	
Egypt	1	
Finland	18	3
France	36	7
Georgia	1	
Germany	42	1
Greece	3	
Hungary	1	
India	9	
Indonesia	1	
Ireland	1	
Israel	4	
Italy	4	2
Japan	58	1
Korea, South	8	

Fellows Report

Distribution of Fellows by Country

Country	Number of fellows	Females
Latvia	3	
Malaysia	2	1
Mexico	2	1
Netherlands	2	1
New Zealand	14	1
Norway	4	
Philippines	3	
Poland	7	
Portugal	1	
Romania	4	
Russia	16	2
Slovakia	3	
Slovenia	3	3
South Africa	5	1
Spain	2	2
Sweden	32	2
Switzerland	13	2
Taiwan	5	1
Turkey	1	
United Kingdom	9	
USA	147	6
Grand Total	592	51
Active Fellows	221	
Retired Fellows	273	
Deceased Fellows	170	

Affiliated Members elected in 2021

BioProducts Institute, UBC
Zhejiang Agricultural & Forestry University

Affiliated Members elected in 2020

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

Affiliated Members elected in 2017

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

Fellows elected in 2021

Menandro ACDA Philippines
Henri BAILLERES, Australia
Mikhail BALAKSHIN, Finland
Warren GRIGSBY, New Zealand
Minjuan HE, China
George MANTANIS, Greece
Aji MATHEW, Sweden
Frédéric PICHELIN, Switzerland
Dick SANDBERG, Sweden
Rubin SHMULSKY, USA
Taraneh SOWLATI, Canada
Yuki TOBIMATSU, Japan
Aleksander VASILYEV, Russia
Ning YAN, Canada

Fellows elected in 2020

Benhua FEI, China
Aster GEBREKIRSTOS, Kenya
Mark IRLE, France
Andreja KUTNAR, Slovenia
Lu LIN, China
Chantong MEI, China
Veronica de MICCO, Italy
Rozi MOHAMED, Malaysia
Antje POTTHAST, Austria
Scott RENNECKAR, Canada
Jinquan WAN, China
Shuangfei WANG, China
Zhihui WU, China

Fellows deceased in 2022

Frank BEALL, USA
Günter SCHULTZE-DEWITZ, Germany

Fellows deceased in 2021

Edmone ROFFAEL, Germany
David GORING, Canada
Dieter ECKSTEIN, Germany
Chung-Yun HSE, USA
Dietrich FENGEL, Germany

Fellows deceased in 2020

Fritz SCHWEINGRUBER, (Switzerland)

Fellows deceased in 2019

Marian BABIAK, Slovakia
Robert KENNEDY, Canada

Fellows deceased in 2018

Lothar GÖTTSCHING, Germany
Hikaru SASAKI, Japan
Wayne WILCOX, USA
Mikhail ZARUBIN, Russian Federation

Fellows deceased in 2017

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

Affiliate Members

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

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

Contact details are available on the IAWS website.

AFFILIATE MEMBERS LIST

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

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
- Contain important references to the literature for further reading
- Give due credit to the work of others in the field, not just summarize the author's work
- Finish with a statement of future direction in the area

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 **15 August 2022**.

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 September 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 several 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. The academy is also under represented by female researchers so we encourage nomination of female colleagues.

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.

Yoon Soo Kim

NOMINATION FORM [You can download this form from the “New Fellows” page on the website]

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: Yoon Soo Kim and Lloyd Donaldson before 15th August 2022.



IAWS

www.iaws-web.org

President: Prof. Yoon Soo Kim
Vice President: Prof. Stavros Avramidis
Past President: Dr Robert Evans
Treasurer: Dr Howard Rosen
Board Chair: Prof. Siqun Wang
Secretary: Dr Lloyd Donaldson