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IAWS Bulletin

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End of terms: 1 June

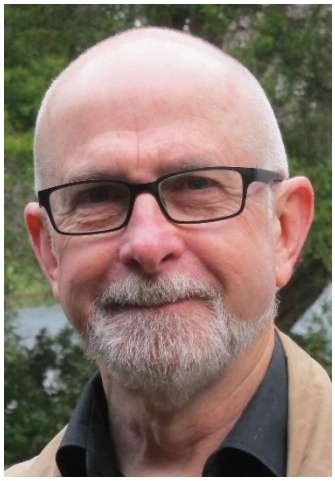
Please send correspondence by email to the editor,

Lloyd Donaldson:

lloyd.donaldson@scionresearch.com

http://www.iaws-web.org/

Message from the President



The second half of 2018 has been eventful with a very successful Plenary meeting in Guadalajara, IAWS involvement in the Marcus Wallenberg Prize event in Stockholm, the 60th Anniversary of the Chinese Academy of Forestry and the International Workshop for Heads of Forest Research Institutions in Beijing, in addition to preparation for the IAWS Plenary Meeting in Austria. We have also elected ten new Fellows from seven countries (see their details in this Bulletin) and four new Board members to join the new IAWS Board Chair, Siqun Wang: Katarina Čufar (University of Ljubljana, Slovenia), Byung-Dae Park (Kyungpook National University, South Korea), Guanben Du (Southwest Forestry University, China) and Laurence Schimleck (Oregon State University, USA). We thank the retiring members, Fellows Pieter Baas (Chair), Robert Franich, Peter Neimz and Arthur Ragauskas for their service on the Board.

I was privileged to represent the IAWS at the Marcus Wallenberg Prize Award and Symposium on September 21 and 22. The 2018 Marcus Wallenberg Prize winner was Professor Torgny Näsholm, Swedish University of Agricultural Sciences, Umeå, for his ground-breaking work on the role of organic nitrogen in tree nutrition. It is particularly pleasing to see the participation of young researchers in the program, supported by the Marcus Wallenberg Foundation. The first MWP was given in 1980 and it is “awarded to recognise, encourage and stimulate path breaking scientific achievements, which significantly contribute to broader knowledge and/or technical development within the broad fields of interest to the forest industry”. For highlights and photographs of the 2018 event, please see www.mwp.org .

The IAWS Plenary Meeting Guadalajara was a great success. Congratulations to Professor José Antonio Silva Guzmán and his team for their excellent organization of this event and for skilfully combining the scientific and cultural components of our first meeting in Mexico. Congratulations also to the winner of the 2018 PhD award, Dr Marco Beaumont, who presented his PhD work and to Professor Ananais, for his Academy Lecture. The IAWS aims to raise the profile of wood science through such practical support of excellence. The technical program covered an impressive range from the physics, chemistry and biology of lignocellulosics to the ecological and cultural aspects of forest management and forest products, as well as other fibre products. I was impressed also by the posters in that session, and the depth of knowledge and dedication shown by the authors of those with whom I was able to spend some time. We greatly appreciated the tour of the department of Wood, Cellulose and Paper. The staff and students gave excellent accounts of their work and their expertise and enthusiasm for science shone through. The social and tour programs worked well to showcase the vitality of Mexican culture. As a musician, I particularly enjoyed the mariachi bands and the spontaneous dancing and singing by the audience.

In this issue

The program of internationalisation by the University of Guadalajara is bearing fruit and so I am optimistic about the future of wood research in Mexico.

In Beijing, on October 26 and 27 2018, I had the honour of representing our Academy and speaking at the International Workshop for Heads of Forest Research Institutions, incorporating the Chinese Academy of Forestry 60th Anniversary Celebration. This very significant event was attended by over 150 delegates from 41 countries. In addition to the IAWS, the participating organisations included the Asia Pacific Association of Forestry Research Institutions (APAFRA), the Asia Pacific Network for Sustainable Forest Management and Rehabilitation (APFNet), Biodiversity International, Center for International Forestry Research (CIFOR), European Forest Institute (EFI), Food and Agriculture Organisation of the United Nations (FAO), International Bamboo and Rattan Organisation (INBAR), International Tropical Timber Organisation (ITTO), International Union for Conservation of Nature (IUCN), International Union of Forest Research Organisations (IUFRO), United Nations Convention to Combat Desertification (UNCCD) and World Wildlife Fund for Nature (WWF). The large number of delegates represented many more organisations around the world. The main organiser was CAF with the support of CIFOR in partnership with IUFRO. At the end of each session, the speakers representing these organisations joined very interesting Q&A / discussions with the delegates on the challenges we face in many areas including climate change, sustainability, government policies, and community outreach and education. As part of the 60th Anniversary celebrations, we toured the CAF and I was impressed by their rapid scientific advancement over the last decade, in particular the emphasis on ecological sustainability. While in Beijing I greatly appreciated the local support of Fellow Yin Yafang, CAF Professor, and his students.

I look forward to our next meeting in Austria in conjunction with the International Wood Culture Society (IWCS) as part of the 7th World Wood Day activities at the Austrian Open-Air Museum in Stuebing (details below). Note that March 21st is the Northern Spring Equinox, marking the beginning of Spring and, from 2013, is also the International Day of Forests, established by the United Nations General Assembly. The IWCS was admitted to the IAWS as an Affiliate Member in 2017, allowing great opportunities to further the integration of science and culture. The theme is 'CHANGE' to highlight our need to change direction for a sustainable future. This will be a great opportunity for IAWS Fellows to communicate scientific principles in the context of wood culture and to reach a much greater and more diverse audience than is possible at the usual scientific meetings.

I remind Fellows to submit Fellowship nominations to me and nominations for the 2019 PhD award to our Chair, Siqun Wang (please let your colleagues know that PhD Award nominations can also be made by non-Fellows). We will hold a Fellows election early in 2019.

Finally, we remember the lives and works of Fellows deceased in 2018: Preben Hoffmeyer (Denmark), George Tsoumis (Greece), Wayne Wilcox (USA) and Mikhail Zarubin (Russia).

I would like to thank my Executive Committee Fellows, Yoon-Soo Kim, Howard Rosen, Lloyd Donaldson and Uwe Schmitt, as well as Board Chair Siqun Wang (and outgoing Chair Pieter Baas) for their support in 2018. On behalf of the Executive Committee I wish you all a happy and healthy 2019.

Robert Evans.

Newly Elected Board Members - 2018

Katarina ČUFAR (Slovenia)

Guanben DU (China)

Laurence SCHIMLEK (USA)

Byung-Dae PARK (Korea, South)

Chair of Academic Board elected in 2018
Siqun WANG (USA)

PhD Thesis/Dissertation Award

IAWS wishes to provide recognition to outstanding thesis/dissertation research at the PhD level by students throughout the world.

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 thesis/dissertation and a one-page CV of the student.
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 Chair of the IAWS Board:
Prof. Dr. Siqun WANG
email: swang@utk.edu

Newly Elected Fellows - 2018

Alfredo AGUILERA, Dr., Full Professor and Research Scientist, Forest Products Laboratory at Forest Science and Natural Resources Faculty, University Austral of Chile (UACh), Valdivia, Chile. Email address: aguilera@uach.cl

Paul GATENHOLM, PhD, Professor, Biopolymer Technology, Chalmers University of Technology, Sweden / 3DBioprinting Center, Department of Chemistry and Chemical Engineering. Email address: paul.gatenholm@chalmers.se

Galina A. GORBACHEVA, Associate Professor, PhD, Department of Wood Science and Technology, Mytishchi Branch, Bauman Moscow State Technical University, Russia. Email address: gorbacheva-g@yandex.ru

Chunde JIN, Professor, Zhejiang A&F University (ZAFU), Hangzhou, Zhejiang, 311300, China. Email address: jincd@zafu.edu.cn

Nam Hun KIM, Ph.D., Professor, Kangwon National University, Korea. Email address: kimnh@kangwon.ac.kr

Per Tomas LARSSON, Adjunct Professor, Principal Scientist, RISE Bioeconomy, Drottning Kristinas Väg 61, Box 5604, SE-114 86 Stockholm, Sweden. Email address: tomas.larsson@ri.se

Seung-Hwan LEE, Ph.D., Associate Professor, Kangwon National University, Korea. Email address: lshyhk@kangwon.ac.kr

Alex C. WIEDENHOEFT, Dr., Research Botanist and Team Leader, Center for Wood Anatomy Research, USDA Forest Products Laboratory, Madison, WI, USA. Email address: acwieden@wisc.edu, awiedenhoeft@fs.fed.us

Yafang YIN, Professor Dr., Chief of Wood Anatomy and Utilization Department, Research Institute of Wood Industry, Chinese Academy of Forestry, Beijing, China. Email address: yafang@caf.ac.cn

Joe R. H. ZHAO, Dr., President & CEO, Chief Scientist, Tri-Y Environmental Research Institute, 2655 Lillooet St., Vancouver, B.C., Canada V5M4P7. Email address: joezhao228@yahoo.ca

New Fellows

Alfredo AGUILERA, Dr., Full Professor and Research Scientist, Forest Products Laboratory at Forest Science and Natural Resources Faculty, University Austral of Chile (UACh), Valdivia, Chile.
Email address: aguilera@uach.cl
Curriculum Vitae: Dr Aguilera was born in 1964 in Concepción, Chile. He received his bachelor's in Forestry from Universidad de Concepción (Chile) in 1991. In 1993, Dr. Aguilera joined the Forest Products Institute at University Austral of Chile (Valdivia), in 1995 he received a fellow of the French government obtaining his master's and doctoral degrees in Wood Science from Nancy 1 University (Épinal, France) in 1996 and 2000, respectively.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: Consultancies for Arauco's Company in planing and sawmill area, for Masisa's Company evaluating melamine boards cutting problems and for Oxiquim (Chilean chemical company) testing wettability of different substrates. Advisor for National Commission for Scientific and Technological Research (CONICYT) at the Agronomy Committee for Human Capital Advanced Program. Editorial Board Member of Journal Maderas: Ciencia y Tecnología. Editorial Board Member of International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS). Formerly Head of the School of Forestry and Wood Science, and formerly Vice Dean at the Forest Science and Natural Resources Faculty. Formerly member of Forest Products Society and the International Society of Wood Science and Technology, actually active member of Groupe Usinage Bois (GUB) – France. Actually head of the Forest Products Laboratory at UACh-Valdivia.

Principal Wood Science Achievements: Dr. Aguilera has more than 24 years R&D and teaching experience in wood science. His current research interests are wood machining, surface roughness, laser scanning microscopy for 2D & 3D surface characterization, wettability and adhesion, cutting forces/power, tool wear and process control in planing and molding production. He teaches Wood Technology for Forest Science, Industrial Engineering and Architect undergraduates and Advanced Study in Wood Science and Wood Machining for master and doctoral graduates at Forest Science and Natural Resources Faculty. He is leader director for Chilean highly competitive projects funds such as FONDECYT and FONDEQUIP research projects where he has been able to implement high level research laboratories, strengthening research in wood science in southern Chile.

Number of refereed publications: 25 books and chapters: 8

New Fellows

Paul GATENHOLM, PhD, Professor, Biopolymer Technology, Chalmers University of Technology, Sweden / 3DBioprinting Center, Department of Chemistry and Chemical Engineering
Email address: paul.gatenholm@chalmers.se
Curriculum Vitae: Prof. Gatenholm is professor of Biopolymer Technology at Chalmers University of Technology, Founder of 3D Bioprinting Center, and Director of Graduate School at WWSC. He is also Adjunct Professor at Joint School of Biomedical Engineering and Sciences at Virginia Tech and Wake Forest University and Adjunct Professor of Biomaterials at Wake Forest Institute for Regenerative Medicine in Winston-Salem, North Carolina, USA. He is an elected member of Swedish Royal Academy of Engineering Sciences.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:
1990-92 Affiliate Associate Professor, Bioengineering, University of Washington, Fl-20, Seattle, Wa 98195, USA
1996-97 Visiting Professor, Naval Research Laboratory, Washington D.C., USA
1997-07 Adjunct Professor, Biomaterial Engineering, Virginia Tech, 210 Cheatham Hall, Blacksburg, VA 24061-0323, USA
2000-present Professor, Biopolymer Technology, Chalmers
1998-2004 Award Chair, Program Chair and Division Chair, ASC Cellulose and Renewable Materials Division
2005-06 Visiting Professor, Georgia Tech, Atlanta, USA
2007-09 Professor, Bioprocessing and Biomaterials, Virginia Tech, Blacksburg, USA
2008-present Adjunct Professor, Wake Forest Institute for Regenerative Medicine, NC, USA
2009-present Adjunct Professor, Biomedical Engineering and Sciences, Virginia Tech, USA
2016 The ACS Cellulose and Renewable Materials (CELL) Division Fellow Award

Principal Wood Science Achievements: Prof. Gatenholm is a very creative polymer scientist with a fascination for wood and wood based materials. He has made pioneering contributions in the field of cellulose and renewable materials. He has started 10 companies, several of them active in commercialization of the research findings. He is a great teacher and communicator. He has received several awards for being best undergraduate teacher, graduate tutor and inventor. He has made great contributions to the Cellulose and Renewable Community, not only through his science and innovations but also through being leader of several organizations and arranging conferences, workshops and seminars. His never ending enthusiasm has opened new doors for cellulose and wood based biopolymers into many new applications but also attracted many young talented scientists to this field. His major scientific contributions for wood science are: elucidation of the mechanism of adhesion in wood-plastic composites and the development of new coupling agents which resulted in growth of wood plastic composites; modification of wood fibers to tailor made properties; isolation, characterization and utilization of xylans from hardwood; discovery of the oxygen barrier properties of xylans; patent on Oxygen barriers based on hemicelluloses from wood and foundation of the company Xylophane; biomedical applications of wood biopolymers; 3D printing with cellulose and wood biopolymers; patents and market introduction of the first wood nanocellulose based bioinks and establishment of CELLINK technology; assembly of wood biopolymers and 3D printing of wood tissue; co-founder of the Wallenberg Wood Science Center and Founder of the Wallenberg Wood Science Center Academy, graduate school which provides graduate education for 60 Ph.D's.

Number of refereed publications: 211 books and chapters: 18 patents: 30

New Fellows

Galina A. GORBACHEVA, Associate Professor, PhD, Department of Wood Science and Technology, Mytishchi Branch, Bauman Moscow State Technical University, Russia.
Email address: gorbacheva-g@yandex.ru
Curriculum Vitae: Dr Gorbacheva is associate professor of the Department of Wood Science and Technology of Mytishchi Branch of Bauman Moscow State Technical University (MB BMSTU), from 2016. She completed her Ph.D. in 2004 under the supervision of fellow Boris Ugolev at Moscow State Forest University.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: Scientific secretary of the Regional Coordinating Council on Wood Science (RCCWS, functioning under IAWS, includes 15 countries), Leading researcher in projects funded by the Ministry of Education and Science of the Russian Federation, Member of Technical Committee 144 Building materials and constructions at the Federal Agency on Technical Regulating and Metrology of the Russian Federation. Grant from The World Wide Fund for Nature (WWF, 2012), Research grants from the Governor of Moscow region (2015, 2016), Grant from Russian Foundation for Basic Research (2017). Erasmus Plus coordinator of MB of BMSTU. Consultancies for the central forensic customs administration, regional branches of the Federal Customs Service of Russia, the Federal and regional bodies of state of the Russian Federation, and the objects of cultural and historical heritage (the State Academic Bolshoi Theatre, the State Tretyakov Gallery).

Principal Wood Science Achievements: Prof. Gorbacheva's research is devoted to the characterization of structure and properties of wood as a natural functional material for the creation of new nano-, bio - and composite materials. Over 90 scientific publications in journals have been published. Research on the shape memory effect (SME) of wood has made a contribution to the fundamental Wood Science. An effective method of quantification and visualization of the SME of wood and wood materials has been developed. The research into deformative conversions, reversible changes in wood structure by FTIR spectroscopy, thermomechanical spectrometry (TMS), the specific surface of wood by the Brunauer-Emmett-Teller (BET) method at SME, behavior of wood as an actively moving material has been conducted. The multi-shape memory effect of wood, the ability of wood to memorize the kind of load which it had undergone (tension, compression), transformation of molecular-topological structure of wood at SME, and the ability of wood to convert molecular-level stimuli-responsiveness into movement on the macroscopic level has been established. Thermal modification, modification of cellulose-containing materials with solutions of radiation synthesized tetrafluoroethylene telomers, and formation of wood-based composites are among the areas of published work. The results of this research have been used to develop energy saving and environmentally friendly technologies to produce materials with preset mechanical, electrical, chemical and thermal characteristics.

Number of refereed publications: 36 books and chapters: 3 patents: 4

Chunde JIN, Professor, Zhejiang A&F University (ZAFU), Hangzhou, Zhejiang, 311300, China
Email address: jincd@zafu.edu.cn
Curriculum Vitae: Prof. Jin is Professor and Dean, School of Engineering, Zhejiang Agriculture & Forestry University, China. He completed his Ph.D in Wood Science and Technology at the North East Forestry University, China in 2002.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:
The Youth Discipline Leader in Zhejiang Province, 2003
First prize of University Scientific Research Achievement Award of Zhejiang Province, 2007
First prize of University Scientific Research Achievement Award of Zhejiang Province, 2008
First Prize of Zhejiang Teaching Achievement Award, 2014
Jindal Scholar of Yanbian Korean Autonomous Prefecture, 2014
Young and Middle-aged Experts with Outstanding Contributions in Zhejiang Province, 2016
Second Prize of the Eighth Liang Xi Forestry Science and Technology Award, 2017
Member of the Advisory Committee of Forestry Engineering Teaching in High Education, Ministry of Education, China;
Vice Chairman, Wood Science Branch of Chinese Society of Forestry, China;
Vice Chairman, Wood Functional Materials and Products Branch of China Wood Protection Industry Association, China;
Executive Director, Wood Industry Branch of Chinese Society of Forestry, China;
Executive Director, Biomass Materials Science Branch of Chinese Society of Forestry, China.

Principal Wood Science Achievements: Dr. Jin's research has primarily focused on engineered wood, wood-based composites, and functional lignocellulosic nano-materials. He has been in charge of 11 key or major projects for the State Forestry Administration of China, the National Natural Science Foundation of China, and the Natural Science Foundation of Zhejiang Province. Prof. Jin has achievements in 4 main areas: the prediction of performances of wood-based products; the manufacture of binderless wood-based composite; the inspired intelligentization of wood-based surfaces; and the lignocellulosic aerogels for environmental remediation. In the 2000s, Dr. Jin studied wood variation, and proposed models for wood performance prediction. He launched an ongoing effort to produce green wood-based panels, in which no adhesives were used. He has committed to reveal the mechanism of binderless fibreboards prepared by acid or alkaline catalysis, and simultaneously developed new processing techniques. Since the 2010s, Dr. Jin has increased cooperation with enterprises. Pilot production lines to produce adhesive-free fibreboards and formaldehyde-free bamboo particleboards have been built, the annual production of which have all reached 10000 m^3. Additionally, Dr. Jin and his group have exploited new research directions in value-added wood-based or wood-derived products. Various nano-scale coatings have been developed with hybrid organic-inorganic compounds to protect hydrophilic wood from dimensional instability and performance deterioration, which further created functionalized wood surfaces including superhydrophobicity, self-cleaning, magnetotaxis, and photoinduction. Lastly, he has researched lignocellulosic aerogels with the bottom-up method for purposes of oil/water separation and selective capture of radioactive ions.

Number of refereed publications: 106 books and chapters: 3 patents: 26

New Fellows

Nam Hun KIM, Ph.D., Professor, Kangwon National University, Korea
Email address: kimnh@kangwon.ac.kr
Curriculum Vitae: Prof. Kim is Professor at Kangwon National University, Korea. He completed his PhD at the University of Tokyo, Japan in 1990.

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

1992	Progress award from The Japan Wood Research Society
2007	Hayashi Jiske Award from The Cellulose Society of Japan
2010	Grand Prize from The Korean Society of Wood Science & Technology
2011-2013	Dean of College of Forest and Environmental Sciences, KNU, Korea
2012-2017	Dean of Gangwon Agricultural Meister College, Korea
2016-2017	President of Korean Society of Wood Science and Technology
1993-1994	Visiting scholar at CERMAV-CNRS, Grenoble, France(4 months)
1994-1995	Post-doc. at FFPRI, Tsukuba, Japan (1 year)
1997-1997	Visiting scholar at CERMAV-CNRS, Grenoble, France(2 months)
2003-2004	Visiting scholar at SUNY-ESF, Syracuse, USA(1 year)
2013-2014	Visiting scholar at RISH-Kyoto University, Kyoto, Japan(40days)
1986-present	Membership of International Association of Wood Anatomists
1986-2010	Member of the Japan Wood Research Society
1990-present	Membership of The Korean Society of Wood Science and Technology
1995-present	Membership of The Cellulose Society of Japan
2009-2010	Member of Society of Wood Science and Technology(SWST), USA
1995-2005	Editorial Board Member of the Korean Society of Wood Science and Technology
2009-present	Advisory Board Member of WOOD RESEARCH Journal in Indonesian Wood Research Society
2010-2020	Member of the Data Base advisory committee at RISH, Kyoto University, Japan
2012	International Advisory Board Member of 2nd Symposium on Biotechnology Applied to Lignocelluloses in Fukuoka, Japan
2012.10	International Advisory Board Member of 3rd International Cellulose Conference(ICC2012) in Sapporo, Japan
2017.10	International Advisory Board Member of 4th International Cellulose Conference(ICC2017) in Fukuoka, Japan

Principal Wood Science Achievements: Prof. Kim is working as a professor in KNU for 28 years since 1990, teaching wood physics and wood anatomy. During the years he has cultivated wood scientists with more than ten Ph.D. from Korea, China, and Indonesia. He served as the president of the Korean Society of Wood Science and Technology from 2016 to 2017 for 2 years and has published more than 100 articles in domestic and international journals on the topics of cellulose structure in native fibers, nanocellulose preparation from woody plants, wood anatomy and wood qualities in temperate and tropical regions, wood composite preparation, wood carbonization, and heat-treated wood.

Number of refereed publications: 125 books and chapters: 10 patents: 9

New Fellows

Per Tomas LARSSON, Adjunct Professor, Principal Scientist
RISE Bioeconomy, Drottning Kristinas Väg 61, Box 5604, SE-114 86 Stockholm, Sweden
Email address: tomas.larsson@ri.se

Curriculum Vitae: Prof. Larsson is adjunct Professor at the Royal Institute of Technology (KTH), Stockholm. He has a Ph. D. in Physical Chemistry 1994, from the University of Stockholm and was awarded the SPCI Ekman medallion in 2017.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:
Member of SPCI (Swedish Paper and Cellulose Engineers Association) since 1995
Program Secretary for the annual conference Ekmandagarna since 2005
Active (40 %) in Wallenberg Wood Science Centre at KTH in Stockholm as Principal Investigator since 2009
Member of American Chemical Society (ACS) since 2011
Principal Scientist, RISE Bioeconomy 2015
SPCI Ekman medallion 2017
Adjunct Professor, Royal Institute of Technology (KTH), Stockholm, 2018

Principal Wood Science Achievements:
Prof. Larsson's main contribution to Wood Science is in the field of cellulose nano-structure. The interpretation of CP/MAS 13C-NMR spectra recorded on cellulose I, and the development of a spectral fitting model has led to new knowledge about the impact of processing conditions on the cellulose nano-structure. The central phenomenon of cellulose fibril aggregation, occurring during pulping, was first demonstrated by the NMR method. Cellulose fibril aggregation has been shown to affect fibre-based product properties as diverse as mechanical strength and enzymatic reactivity. Based on the NMR method it was subsequently possible to develop methods for determining the cellulose specific surface area and the average fibre wall pore sizes in water swollen pulp fibres. Utilizing the set of NMR methods developed it has been possible to establish structure-accessibility-reactivity relationships for cellulose rich fibres and give a nano-structural explanation to well-known phenomena such as cellulose hornification during drying and strength loss during pulping, also known as the "strength delivery" phenomenon. The NMR method is deployed routinely at RISE Bioeconomy in all cellulose research areas and was an important reason for the Ekman medallion award received by PTL 2017. The continued work has focused on cellulose-water interactions in cellulose rich pulp fibres and model systems.

Number of refereed publications: 80 books and chapters: 4 patents: 1

New Fellows

Seung-Hwan LEE, Ph.D., Associate Professor, Kangwon National University, Korea
Email address: lshyhk@kangwon.ac.kr
Curriculum Vitae: Prof. Lee is Associate Professor at Kangwon National University, Korea. He has a Ph.D. (2000) from the Research Division in Agriculture, Forest and Biomaterials Science Course of the Postgraduate School, Kyoto University, Japan.

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

2008-2013	Adjunct Assistant Professor, Department of Forestry, Wildlife and Fisheries, University of Tennessee, US.
2009-2012	Senior Research Scientist, Biomass Technology Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Japan
2010	Best Paper Award, Multi Functional Materials Science International Council
2012-2014	Guest researcher, Biomass Technology Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Japan
2013-2017	Director and Auditor, Korea Furniture Society, Korea
2014-present	Executive Director, The Korean Society of Wood Science & Technology, Korea
2014-present	Chief Editor, Journal of Forest and Environmental Science, Kangwon National University, Korea
2014-present	Chair of a Department/Division, Department of Forest Biomaterials & Engineering, Division of Forest Environment Science, Kangwon National University, Korea
2014	Best Paper Award (2014-3), The Korean Society of Wood Science & Technology
2014	Best Paper Award (KSIEC 2014-084), The Society of Industrial and Engineering Chemistry
2014-present	Director, Korea WPC Industry Association, Korea
2014	Best Paper Award (KSIEC 2014-218), The Society of Industrial and Engineering Chemistry
2016	Award of Jo Jae-Myung (No.4), The Korean Society of Wood Science & Technology
2016	Best Paper Award (2016-12), The Korean Society of Wood Science & Technology
2016	Best Paper Award (2016-21), The Korean Society of Wood Science & Technology
2017	Best Paper Award (2017-07), The Korean Society of Wood Science & Technology
2017	Best Paper Award (2017-21), The Korean Society of Wood Science & Technology
2018-present	Director, Society of Forest Bioenergy, Korea

Principal Wood Science Achievements:
Prof. Lee has worked as a professor in KNU for 6 years since 2012, teaching wood chemistry and bio-nano forest materials. He has supervised wood scientists for more than ten Ph.D's from Korea, China, and Indonesia. He served as an officer of the executive in the Korean Society of Wood Science and Technology from 2014 to 2017 for 4 years and is president of the future strategy committee. He has published more than 100 articles in domestic and international journals with the topics of bioenergy production, cellulose nanofiber, and nanocomposite preparation from woody biomass.

Number of refereed publications: 100+ books and chapters: 4 patents: 12

New Fellows

Alex C. WIEDENHOEFT, Dr., Research Botanist and Team Leader, Center for Wood Anatomy Research, USDA Forest Products Laboratory, Madison, WI, USA.
Email address: acwieden@wisc.edu ; awiedenhoeft@fs.fed.us
Curriculum Vitae: Dr Wiedenhoeft received his Ph.D. (2008) in Botany from the University of Wisconsin-Madison. Dr. Wiedenhoeft is the Team Leader for the Center for Wood Anatomy Research (2014). He was appointed an Adjunct Professor at Purdue University in the Department of Forestry and Natural Resources (USA) in 2012, and was appointed to the same title in 2013 at the University of Wisconsin-Madison, Department of Botany (USA) with promotion to Associate Professor in 2017, and as a Professor Estrangeiro at UNESP-Botucatu, Department of Botany (Brazil) in 2014.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies:
Dr. Wiedenhoeft is the primary scientific expert in wood anatomical identification for the government of the USA, and manages a 2017 Forest Stewardship Council Leadership Award-winning research program for the Forest Stewardship Council, applying forensic wood science to questions of product claim verification and chain-of-custody concerns throughout their supply chain, from forest to retailer. He was an invited member of the United Nations Office of Drugs and Crime working group on timber tracking and wood science (December 2014), and he served as a US member of the CITES International Working Group on Timber Identification and Physical Inspection (2008-2012), and is currently a member of the CITES Plants Committee Timber Identification Working Group and Expert Advisors. Dr. Wiedenhoeft has been an Associate Editor of the International Association of Wood Anatomists since 2003, and served two terms in the IAWA Executive Council and IAWA Journal Editorial Board in 2014-2018. Since January 2018, he has been one of two Deputy Executive Secretaries for the Association. For IAWA Dr. Wiedenhoeft also organized and Chairs the IAWA WRAITH (Wood Research Against Illegal Timber Harvest) task force. He was appointed the Chair of the upcoming IAWA List of Characters for Macroscopic Wood Identification working group, and was a contributing member of the 1999-2004 IAWA Softwood List Committee.

Principal Wood Science Achievements:
Dr. Wiedenhoeft supervises an international research team with (current or past) visiting faculty, post-docs, and students from more than 10 countries, and has extensive industry relations, in the areas of flooring, wood importing, and forest certification. His field manuals for wood identification have been published and distributed across much of the world, and reprinted and translated into several languages. He is the co-inventor and co-developer of the XyloTron, a machine-vision system for field wood identification, which has resulted in numerous international presentations and a recent paper in a Special Issue of *Plant Methods* demonstrating the potential for convolutional neural networks and deep learning in wood forensics. Dr. Wiedenhoeft co-developed a mesomechanical testing apparatus used to directly measure the elastic properties of pit membranes of softwoods, the publication of which garnered the cover of *Plant Cell and Environment* in 2015. Working with colleagues at FPL, he investigates fundamental wood-moisture interactions. Dr. Wiedenhoeft collaborates with colleagues in Brazil in the area of FTNIR identification of wood and seasonal cambial activity, and works with colleagues in China on DNA barcoding of endangered tropical wood species and aspects of machine learning and wood identification, and is the US' foremost authority on forensic wood anatomy, both in criminal contexts and for cultural properties and anthropology. His lab also works in classical botanical wood anatomy and development, phenotypic characterization of figured wood mutants, and is a nexus of applying cutting-edge phylogenetic comparative methods to large wood anatomical datasets to infer novel wood functional traits.

Number of refereed publications: 43 books and chapters: 33

New Fellows

Yafang YIN, Professor Dr., Chief of Wood Anatomy and Utilization Department, Research Institute of Wood Industry, Chinese Academy of Forestry, Beijing, China.

Email address: yafang@caf.ac.cn.

Curriculum Vitae: Dr. Yafang Yin received his PhD at the Chinese Academy of Forestry in Beijing (2002). He has worked at the Research Institute of Wood Industry, the Chinese Academy of Forestry, since 2002, progressing from an Assistant Professor (2002) to Associate Professor (2005) to the Chief of Department (2009) and to Professor Position of Chinese Academy of Forestry (2011).

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

Prof. Yin was honored with title of the Talent for Promotion Program of the State Forestry Administration of China (2013), the National Innovation Talent for Young Scientists Promotion Program of China (2013), the National High-level Talent for Special Support Program of China (the National "Ten Thousand" Talents Plan) (2016). He was awarded the Eleventh Forestry Science and Technology Award for Young Scholars of the State Forestry Administration of China (2011), the Third Distinguished Young Scholars of the Chinese Academy of Forestry (2012), the Second Class Award of Science and Technology of the Government of Beijing (2015), the Second Class Award of Science and Technology of the Chinese Society of Forestry Liangxi Awards, the highest awards of forestry science in China (2016). Prof. Yin is the leading scientist in wood anatomy of the Chinese Academy of Forestry and in charge of the management and research innovation of the largest Wood Collection in China. He held post-doc positions and visiting scholarships at Forintek of Canada (2003), FFPRI of Japan (2004), KTH of Sweden (2009) and FPL of USA (2016). He has been on the IAWA (International Association of Wood Anatomists) Council and the IUFRO Deputy Coordinator of 5.06.00 since 2010, an Expert Member on Forensic Analysis to Forest Crime of the United Nations Office on Drugs and Crime (UNODC), the Deputy Chair of IAWA-China Group since 2014 and the IAWA Executive Secretary since 2017. Prof. Yin was assigned to the Editorial Board of the IAWA Journal (2010), the China Wood Industry (2014), and the International Editorial Board of Korean Wood Science and Technology Journal (2015) and appointed as consultant by the China CITES Management Authority and the China CITES Scientific Committee since 2013 and the China National Association of Forest Products Industry since 2014.

Principal Wood Science Achievements:

Prof. Yin emphasizes his science achievements on two aspects in wood anatomy, i.e., Cell Wall Structure and Wood Identification. He has been engaged in the establishment of scientific relationships between structure and properties of the wood cell wall since 2003, as the leader of 3 projects of the National Natural Science Foundation of China (NSFC). With 46 journal articles, 5 patents, 4 book chapters, 2 national standards, 9 international oral presentations and 3 technical achievements of the State Forestry Administration of China, he established correlations between the properties (hygroscopic, acoustic, DMA and strength) development occurred in natural and modified wood (heartwood, high growth stress, steam and compression with steam) and changing patterns in the cell wall constituents. These achievements provide a reliable scientific basis for the high value-added utilization of low quality plantation timber in China. Moreover, Dr. Yin made efforts to explore the scientific foundation and technical transfer of wood identification. Supported by 3 national projects, he led to the perfection of wood collection database (wood and digital) of the Chinese Academy of Forestry and the innovation of DNA extraction method from dried wood. With 21 journal articles, 4 books and 1 chapter, 1 national standard, 6 international oral presentations and 1 achievement of the State Forestry Administration of China, he highly improved the scientific and utilizing level of the database (142 softwood and 1200 hardwood new-added) and the identification method of dried wood using DNA barcodes for the better conservation and sustainable utilization of timber resources.

Number of refereed publications:75 books and chapters:9 patents: 5

New Fellows

Joe R. H. ZHAO, Dr., President & CEO, Chief Scientist, Tri-Y Environmental Research Institute, 2655 Lillooet St., Vancouver, B.C., Canada V5M4P7
Email address: joezhao228@yahoo.ca
Curriculum Vitae: Dr Zhao is president & CEO of Tri-Y Environmental Research Institute. He completed his PhD at Pulp and paper, Chemical Engineering, SCUT, China in 1987.

Major awards and honors, leading positions, visiting positions, significant memberships, editorial boards and consultancies: Distinguished Professor and Honorary Chair, Chemical Engineering, South China University of Technology (SCUT), China (1998); Adjunct Professor, Pulp and Paper, Chemical Engineering, Guangxi University (GXU), China (2003); 2nd Prize, Award for Advanced Science and Technology (shared group prize) Ministry of Science and Technology, China (2007); Adjunct Professor, Department of Chemical and Biological Engineering, University of British Columbia (UBC), Canada (2014); Fellow (FRSC), The Royal Society of Chemistry, UK (2015); Chartered Chemist (CChem), The Royal Society of Chemistry, UK (2016); Fellow, Pulp and Paper Technical Association of Canada (PAPTAC) (2018). Member of Society of Rheology (SOR), USA and Academic Member; Reviewer of J. of Rheology (1990-present); Pulp and Paper Technical Association of Canada (PAPTAC), Canada, Regular and Professional Member; Reviewer of Pulp & Paper Canada (1991-present); American Association for the Advancement of Science (AAAS), USA, Professional Member (2007-present); American Chemical Society (ACS), USA, Regular and Professional Member & Environmental Chemistry Division (2008-present); Canada Green Building Council (CGBC), Canada, National Membership (2011-present); Technical Association of the Pulp and Paper Industry, USA (Tappi), Professional Member (2012-present); Association of Professional Engineers and Geoscientists of BC (APEGBC), Canada (renamed as and known as Engineers and Geoscientists British Columbia (EGBC) since 2017/08/23), Registered Professional Engineer (P. Eng.) (2015-present); The Chemical Institute of Canada (CIC), The Canadian Society for Chemical Engineering (CSChE), Canada, Professional Member (lifetime) (MCIC) (2015-present); Forest Stewardship Council (FSC), Canada, Professional Member (Environmental) (2016-present); Pulp and Paper Technical Association of Canada (PAPTAC), Canada, Fellow (2018-present); Editorial board Paper and Biomaterials; Visiting positions (17) in several Chinese universities.

Principal Wood Science Achievements: Over a 30 year career, Dr Zhao has made significant contributions in papermaking and novel building materials. Following graduation as the first PhD in China in pulp and paper engineering at South China University of Technology (SCUT), he carried out basic studies in pulp fibre suspension flows. After further studies at Oxford University and UMIST (UK), while at University of British Columbia (UBC) he was the lead author of landmark work that derived a theoretical model of pressure pulses in blade twin-wire paper machines, considered at the time to the major gap in papermaking knowledge. The theory was soon confirmed by others and followed by implementations that improved papermaking. Later, Dr Zhao founded and to this day leads an 18-person research laboratory in Vancouver to develop new technologies for environmental improvement and energy conservation. Many of his developments make novel use of wood fibres, an example being a temperature control building material (TCM) based on a phase change material embedded in networks of pulp fibres. This invention was patented in Canada, US and China and is now mass produced in China. More recently, he invented a high-performance thermal insulation panel (HRP) which also incorporates significant wood fibres. Manufacturing facilities for this innovation are now in planning stage in China. Dr Zhao has received various honours, including appointments as distinguished professor and honorary chair at SCUT, adjunct professorships at Guangxi University and UBC, and fellowships in FRSC (UK) and PAPTAC (Canada).

Number of refereed publications: 31 books and chapters: 0 patents: 19

IAWS Plenary Meeting, March 21–23, 2019, Graz, Austria

Main Event

Dates: March 19th - 23rd, 2019 (Tue. - Sat.)
* Open for public begins on Wednesday, March 20th
Location: Austrian Open Air Museum Stübing

Registration Fee (including meal plan, registration package, and domestic ground transportation)

	Early Bird (USD)*	Regular (USD)
Full	$255	$300
Accompanying Person/ Student	$150	$200

* before 11th January, 2019

Accommodation Fee (Hotels to be arranged by event organizers)

Room Types	* Accommodation Fee (per night)
Single	€58
Twin/ Double	€42 - €46 per person
4 Bedded Room (18 square meters)	€35 per person
6 Bed Dormitory (28 square meters)	€34 per person

http://www.worldwoodday.org/2019/news/60

IAWS Plenary Meeting, March 21–23, 2019, Graz, Austria

Symposium

Second Call for Papers and Posters- online abstract submission by December 31, 2018.
Theme: Change – from tradition to innovation
The 2019 WWD Symposium and the 2nd IUFRO Forest Products Culture Research Group Colloquium which will be held from Thursday 21st to Saturday 23rd of March 2019 in the Austrian Open Air Museum Stuebing is following the above general theme. You are asked to send abstracts for oral presentations as well as for poster presentations within the 6 topics listed below. The symposium is co-organized by IAWA and IAWS, and is supported by IUFRO.

Topic 1: Sustainable wood utilization starts with proper tree species identification
Keynote: Gerald Koch, Thuenen Institute, Hamburg, Germany
Paolo Cerutti, CIFOR, Nairobi, Kenya
A tremendous variety of wood species is available but some species no longer exist due to over-exploitation. Having tree species listed on CITES will help to safeguard them, and yet it still requires solutions to the traditional use for musical instruments and artists.
Within this session, topics such as wood identification, combatting illegal logging and trade, the impact of certifications, and wood species selection/replacement should be discussed. All talks will focus on wood use and wood culture.

Topic 2: Wooden buildings – tradition and innovation
Keynote: Gerhard Schickhofer, Technical University of Graz, Austria
The biggest quantity of wood has been and is still used today for wooden buildings. Increasing the sustainable use of wood has to be considered for this major application of timber.
Within this session, topics such as surveys of ancient wooden buildings, special architectural solutions related to wood protection, new concepts of wooden buildings, modern materials based on renewable resources for buildings, and examples of new and modern wooden buildings should be discussed.

Topic 3: Wood-based musical instruments, Art and Design
Keynote: Iris Bremaud, CNRS, Montpellier, France
Wood is the key-material for musical instruments, artistic artefacts and is an important raw material in design. Within this session, topics such as survey and description of traditional wooden musical instruments, art-objects, and traditional as well as new wooden-based design should be discussed.
Within this session, topics such as survey and description of traditional wooden musical instruments, art-objects, and traditional as well as new wooden-based design should be discussed.

IAWS Plenary Meeting, March 21–23, 2019, Graz, Austria

Topic 4: Education – an essential tool for forest sustainability and wood utilization
Keynote: Sandra Rodríguez-Pineros, Universidad Autónoma de Chihuahua, Mexico
Education is the key element for a sustainable future. Case studies of education in relation to wood culture should foster the interest in this topic and will bring new ideas for education.
Within this session, topics such as teaching projects dealing with forests and timber and new ideas in teaching wood culture, sustainable forestry, and how to inspire alternative uses of wood should be discussed.

Topic 5: Non-wood forest products
Keynote: Anthony Cunningham, Honorary Professor of The University of KwaZulu-Natal, Pietermaritzburg, South Africa
Non-wood forest products have played an important role in the past for various uses. And today there is an increasing interest in sustainable raw materials next to wood. Within this session, topics such as utilization of bamboo and rattan (in former times and modern applications) and all other non-wood utilization of forest products such as resins, herbaceous plants, fungi, etc. should be discussed. The functions of forests as a protection from natural hazards to safeguard water supply and to be the basis of eco-tourism are also highly welcome.

IAWS Special Session
This session will include the Academy Lecture by distinguished Academy Fellow Alfred Teischinger. Fellow Gerd Wegener will receive the Distinguished Service Medal. Topics include the various ways that woody biomass materials are used by industries and communities such as how the microscopic and macroscopic structure of wood affect its utilization; engineering properties; protection in storage and use; wood physics; drying, conversion, and performance of solid wood and wood composites in use; and production of energy and chemicals from trees will be discussed.

Online Application
Apply for the Symposium ONLINE by December 31st. All applications will be reviewed and informed of results by January 28th.

Please send any inquiry by email to program coordinator (symposium@worldwoodday.org).

In this issue

Report on Plenary Meeting, Guadalajara

IAWS Plenary Meeting, Guadalajara, Mexico, 15-19 October 2018.

This meeting was an IAWS plenary meeting with parallel sessions on wood science and sustainable biomaterials held in conjunction with Departamento de Madera, Cellulosa y Papel, Universidad de Guadalajara, Guadalajara, Mexico.

On day one we were given a tour of the Department facilities, mostly focussed on pulp and paper research with the introduction of some more recent capabilities in sustainable biomaterials. They only have masters students but are trying to develop a PhD program. In the afternoon we returned to the hotel for an executive committee meeting followed by an IAWA editorial meeting. The conference began in the evening with an opening ceremony followed by the academy lecture given by Ruben Ananias from Chile on the topic of “Drying of Chilean Hardwoods”.

The next two days were parallel sessions on wood science and on biomaterials, including the PhD award talk by Marco Beaumont, BOKU, Vienna, Austria on “Characterization and Modification of a Cellulose II Gel”. There were three keynote presentations by Todd French, Mississippi State University on “Lignocellulosic biomass from the field to the plate to the engine”; Pieter Baas, Leiden University on “Illegal timber harvest and trade”; and Lucian Lucia, NC State on “Recent advances in nanoscale valorisation of lignin and heteropolysaccharides”. Fellows Evans, Schmitt, Donaldson and Wang gave presentations on various topics mixed in with the local speakers. The conference dinner was held at a nearby cantina and delegates were serenaded by an excellent Mariachi band.

On the third day conference delegates went on a field excursion to a Tequila farm and biorefinery which was a great opportunity to see the countryside outside the large city of Guadalajara with abundant opportunities to sample the product at various stages. This was followed by an excellent lunch and tour of the town of Tequilla.

Unfortunately there was a botanical congress on the same week in Quito, Equador so some South American wood colleagues were at that meeting. However this was an interesting meeting being the first IAWS meeting in Mexico and both foreign visitors and locals enjoyed the opportunity to interact.

The conference opening ceremony.

Report on Plenary Meeting, Guadalajara

The IAWS president Rob Evans welcoming delegates.

Ruben Ananias delivering the Academy lecture.

Report on Plenary Meeting, Guadalajara

Rob Evans presenting the PhD award to Marco Beaumont.

Pieter Baas delivering his keynote on illegal timber harvesting.

Report on Plenary Meeting, Guadalajara

Todd French delivering his keynote.

Lucian Lucia and Marco Beaumont.

Report on Plenary Meeting, Guadalajara

Rob Evans, president of IAWS and Antonio Guzman, conference organiser.

Conference delegates.

Report on Plenary Meeting, Guadalajara

Departmental tour.

Departmental tour.

Departmental tour.

Report on Plenary Meeting, Guadalajara

Fellows and locals.

Harvesting of Agave by El Jimador. Only the core of the plant is used. A Jimador is a type of Mexican farmer who harvests agave plants, which are harvested primarily for the production of mezcal, sotol and tequila. This task requires the skill of identifying ripe agave, which ripens in between 8 and 12 years. Note the soil here is volcanic scoria.

Agave's ready for the steam oven.

Teak ceiling in the distillery hacienda.

Report on Plenary Meeting, Guadalajara

Conference dinner.

Mariachi band at Los Chilaquiles. Chilaquiles are corn tortilla's.

Report on IAWA China Group Meeting Fuzhou, China

IAWA China Group Meeting

Fellows Lloyd Donaldson and Yoon Soo Kim were invited to give keynote addresses at this meeting in Fuzhou, China hosted by new fellow, Yafang Yin and local colleagues Professor Lin and Dr. Guan Xin of Fujian Agriculture & Forestry University. Many thanks also to the graduate students who provided guided tours of city attractions, university gardens and our tour of the Nanjing Tulou UNESCO World Heritage site, south of Fuzhou city. Fuzhou is a large port city about halfway between Shanghai and Hong Kong and capital of the Fujian province. The central city area is characterized by many Ficus trees which soften the otherwise harsh concrete architecture of the many apartment buildings. Lke many areas in China, new construction was very evident with bamboo scaffolding being used on multi-storey buildings.
Our keynote presentations were both on the importance of wood identification in archeology and traditional wood utilization.

Traditional wooden building in shopping centre. The wood is probably Chinese fir, *Cunninghamia lanceolata*.

Part of the wood collection at Fujian A&F University wood science lab.

Traditional rosewood carving in the foyer of the wood science lab.

Log of sapele mahogany in foyer of the wood science lab.

Lotus gardens on the university campus.

China

Traditional and modern buildings.

Ficus tree characterised by prolific aerial roots.

Traditional Tulou buildings with mud brick exterior over timber frame.

Interior of the Tulou showing wooden construction – probably Chinese fir.

Traditional Tulou showing wooden framing.

Upcoming Meetings

Upcoming Meetings

XXV IUFRO World Congress 2019
"Forest Research and Cooperation for Sustainable Development"
Curitiba, Brazil; 29 September - 5 October 2019
Congress website:
Twitter: ,
Facebook:

XXV IUFRO WORLD CONGRESS - CALL FOR ABSTRACTS - DEADLINE EXTENDED
Forest Scientists, Colleagues,

We are pleased to inform you that the **Deadline for Abstracts** for the XXV IUFRO Congress in Curitiba, Brazil, 29 September – 5 October 2019, **has been extended to Thursday, 10 January, 2019**!

Abstracts may address any aspect of forest research, but preference will be given to abstracts addressing one of the Congress technical sessions. Abstracts not associated with a technical session may be assigned to a general poster session.

In order to submit your abstract, please take the following steps, detailed at http://iufro2019.com/abstracts-submission/:
Consult the list of sessions at http://iufro2019.com/technical-sessions/;
Register for the Congress at https://registration.galoa.com.br/en/realm/iufro-2019.
Please note that you need to register for the Congress already now, but payment for your registration may be made until 31 May 2019;
Submit your abstract at https://app.oxfordabstracts.com/stages/792/submission (find detailed instructions there).
Please note that abstracts may be submitted in English, Spanish or Portuguese.
Authors are limited to **a maximum of two abstracts as presenting author**. All abstracts will be reviewed for scientific rigour and relevance to Congress themes, and may be assigned to oral or poster presentations. The Congress will feature digital as well as static poster displays to ensure high visibility for poster presentations.

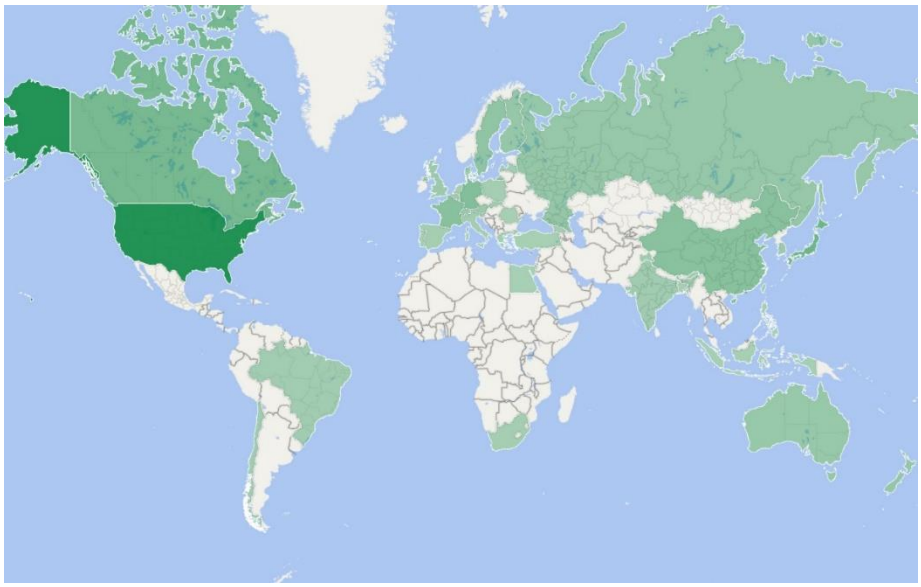
Abstracts will be accepted until **10 January 2019**, but authors are encouraged to submit abstracts as early as possible. Authors will be advised if their presentation is accepted by **28 February 2019**. Early advice of abstract acceptance is possible if requested (e.g., for funding applications), but the presentation mode will not be confirmed until the end of February.

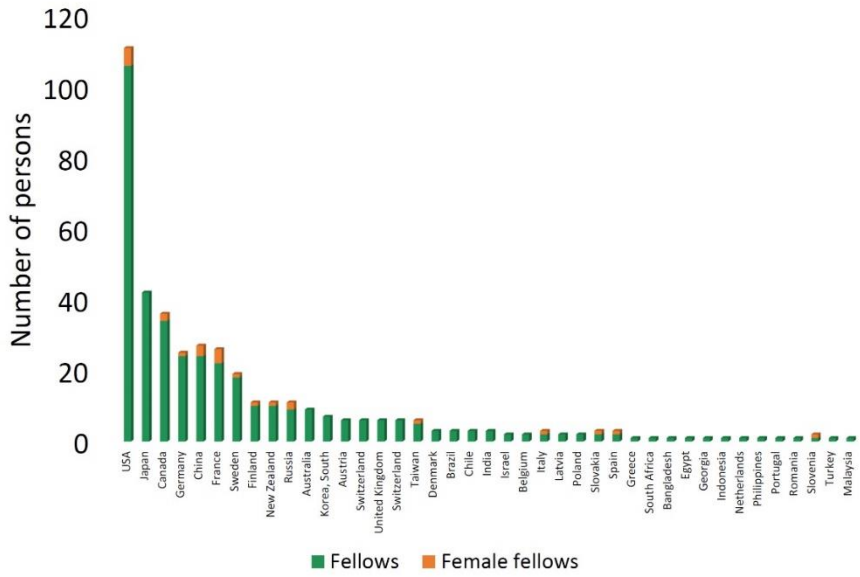
We are looking forward to receiving your excellent and numerous abstracts!

Alexander Buck
Executive Director of IUFRO

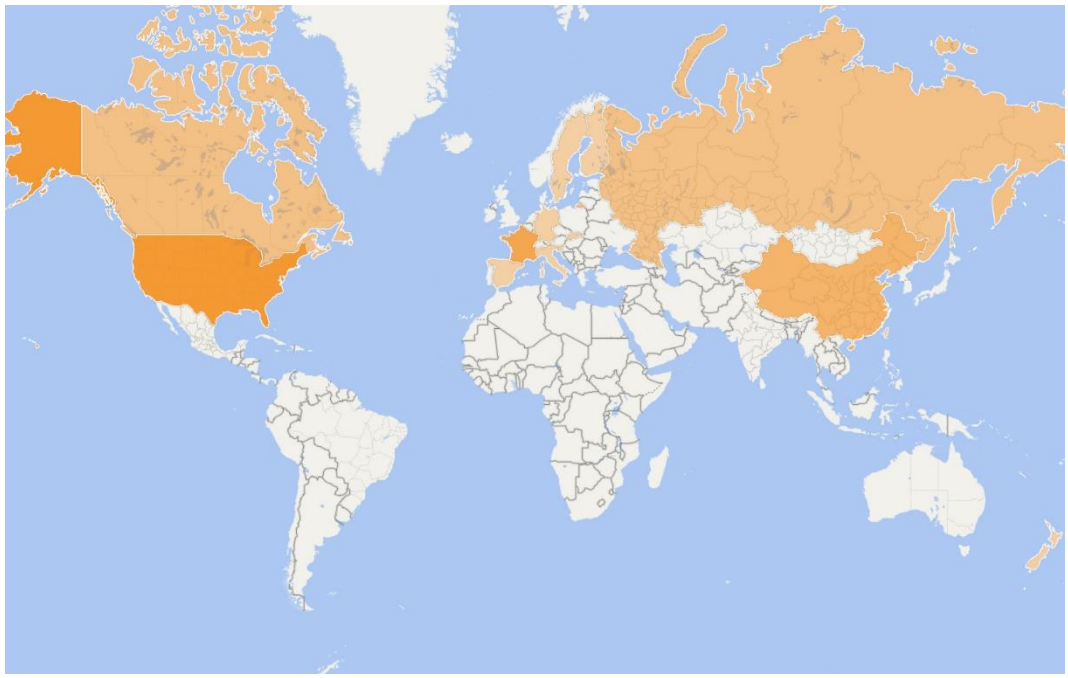
IAWS Membership Report

Distribution of Fellows by Country: 42 Countries, 383 Fellows. 7% of fellows are female.





Distribution of Female Fellows by Country: 14 Countries, 25 Fellows.



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 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 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

Compiled by Yoon Soo Kim, Gwangju

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

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

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
robertxevans@gmail.com

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

IAWS

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