

Delivering Opportunities for Everyone

Cairns, Australia 4-8 June 2023



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Program

	SUNDAY 4 JUNE		
14:00	Registration Open	Auditorium Foyer	
14.30	Student/Early Researchers Workshop	Auditorium B	
15:30	CONFERENCE OPENING		Auditorium B
	Welcome to Country		
	Conference Opening Address Andrew Panel Discussion: IUFRO Latest Resear		
	David Lee, Hulton King, Jeff Morrell, S	— ·	
17:00 -	Welcome Reception	<u>5</u>	Terrace
19:00	Sponsored by HQ Plantations		
		MONDAY 5 JUNE	
08:00	Registration Open		Auditorium Foyer
09:00	Housekeeping		Auditorium B
09:10	Ple	enary	Auditorium B
	Certification and Sustainable Forest M	•	Session Chair: Hulton King
	Matt de Jongh		Sponsored by Responsible Wood
10:00	Morning Tea		Foyer
C1	S1.1: In-forest Wood Quality	S22&23: Application and Prospects of	S4: Material Characterisation
	Assessment, 1 Sponsored by FWPA	Interdisciplinary Forest Product Identification and Traceability Approaches	
Chair	Yvette Dickinson	Andrew Lowe, Victor Deklerck & Lichao	Franka Brüchert
Cridii		Jiao	
Room	Auditorium B	Meeting Room M2	Meeting Room M3
10:30	An individual tree growth and wood	Unveiling the isotopic distribution of timber	Radial scanning of loblolly pine samples
	properties model for plantation forests. David Drew	in the Peruvian.	using near-infrared hyperspectral imaging: impact of surface scanned,
	David Brew	Charlie Watkinson	sample thickness and extractives on
			partial least squares regression models.
			Joseph Dahlen
10:50	Impact of needle wear on resistance	Ancient DNA uncovers the information of	Joseph Dahlen Condition assessment of wood structure
10:50	drilling to assess wood quality.	tree species used in ancient timber	Joseph Dahlen Condition assessment of wood structure of Jin Zhongdu watergate site.
10:50	· · · · · · · · · · · · · · · · · · ·		Joseph Dahlen Condition assessment of wood structure
10:50	drilling to assess wood quality.	tree species used in ancient timber architecture to reveal the development of	Joseph Dahlen Condition assessment of wood structure of Jin Zhongdu watergate site.
10:50	drilling to assess wood quality. Vilius Gendvilas Acoustic wave behavior in standing trees	tree species used in ancient timber architecture to reveal the development of human civilization. Lichao Jiao Multiple DNA approaches for identifying	Joseph Dahlen Condition assessment of wood structure of Jin Zhongdu watergate site. Houjiang Zhang Using Pilodyn for rapid field assessment
	drilling to assess wood quality. Vilius Gendvilas Acoustic wave behavior in standing trees and its implication to in-forest wood	tree species used in ancient timber architecture to reveal the development of human civilization. Lichao Jiao Multiple DNA approaches for identifying Southeast Asian timber species.	Joseph Dahlen Condition assessment of wood structure of Jin Zhongdu watergate site. Houjiang Zhang Using Pilodyn for rapid field assessment of decay condition in hardwood trailer
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11:10	drilling to assess wood quality. Vilius Gendvilas Acoustic wave behavior in standing trees and its implication to in-forest wood quality assessment. Xiping Wang A comparison of radial wood property variation in southern pines between IML	tree species used in ancient timber architecture to reveal the development of human civilization. Lichao Jiao Multiple DNA approaches for identifying Southeast Asian timber species. Melita Low World Forest ID - science-based solution to verifying forest product identity and origin.	Joseph Dahlen Condition assessment of wood structure of Jin Zhongdu watergate site. Houjiang Zhang Using Pilodyn for rapid field assessment of decay condition in hardwood trailer decking. Xinfeng Xie (Xiping Wang) Model interpretability vs model complexity: Comparing partial least
11:10	drilling to assess wood quality. Vilius Gendvilas Acoustic wave behavior in standing trees and its implication to in-forest wood quality assessment. Xiping Wang A comparison of radial wood property variation in southern pines between IML Resi predictions and wood increment	tree species used in ancient timber architecture to reveal the development of human civilization. Lichao Jiao Multiple DNA approaches for identifying Southeast Asian timber species. Melita Low World Forest ID - science-based solution to	Joseph Dahlen Condition assessment of wood structure of Jin Zhongdu watergate site. Houjiang Zhang Using Pilodyn for rapid field assessment of decay condition in hardwood trailer decking. Xinfeng Xie (Xiping Wang) Model interpretability vs model complexity: Comparing partial least squares and artificial neural network
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12:10	LUNCH Foye				
13:10	Advances in the biomimicry of wood for manufactured materials. Phil Evans	Auditorium B Session Chair: Geoffrey Downes			
C2	S21: IAWS-IUFRO Symposium: Promoting Data-Driven Methods for Species and Origin Identification of Forest Products	S20.1: Outcomes from Forest Products Culture 1	S18: Credence Attributes		
Chair	Yafang Yin	Charlotte Chia-Hua Lee	Sam van Holsbeeck		
	Auditorium B	Meeting Room M2	Meeting Room M3		
14:00	Applications in the scope of anatomical wood identification using sub-µCT based volumetric images. Volker Haag	Wood culture in Burning man: the ritual use of wood. Mona Wu	The nexus between citizen preferences towards wooden building materials and choosing renovations over demolish & build. **Anne Toppinien**		
14:20	Developing integrated timber data to enhance legal timber trade of the APEC through Xylaria networking: progress. Listya Dewi	Woods used during 6th to 10th century in Himachal Pradesh state of India. Sangeeta Gupta	Perceived value of sustainable wine packaging. Robert Radics		
14:40	How to digitize a wood collection? Yafang Yin	The History and Impacts of World Wood Day Howard Rosen	New Zealand's reputation in the international timber market and the performance of the forestry sector in delivering credence attributes. Karen Bayne		
15:00	Afternoon Tea		Foyer		
C3	S3: Roundwood Sorting and Grading	S15.1: Future Pathways to Forests, Business and Sustainability 1	S24: Wood and Forest Cultural Heritage in Australia, including Aboriginal Wood and Forest Culture		
Chair	Xiping Wang	Anne Toppinen	Laurence Boudreault		
	Auditorium B	Meeting Room M2	Meeting Room M3		
15:30	Distribution and quantification of wetwood in Silver fir (<i>Abies alba</i> Mill.) by x-ray-based computed tomography (CT). <i>Franka Brüchert</i>	Tradeoffs between forest ecosystem services in southeast Alaska: the influence of second growth timber management. David Nicholls	The culture of design with timber in Australia's commercial and industrial buildings. Gregory Nolan		
15:50	Investigating the Influence of Environmental and Silvicultural Factors on Wood Quality of Southern Pines grown in south-east Queensland and Northern New South Wales Chandan Kumar	Circular use of timber in Norway: Policy, possibilities, and projects. Lone Ross	Cultural presentations in reflection of forest and forest products culture in Australia. Charlotte Chia-Hua Lee		
16:10	Towards the use of small-diameter oak roundwood for structural purposes: Determination of mechanical properties by non-destructive and destructive testing as prerequisite for mechanical log grading. Udo Sauter	Identification of suitable veneer-based engineered wood products for manufacturing using coconut veneer. A weighted decision matrix approach Divnesh Swamy	Ancient voice of the future. David Hudson		
16:30	Comparison of different roundwood measurement methods along the forestry-wood-chain. Jörg Staudenmaier	Carbon footprint of reused and recycled wood products. Johann Kristian Næss			
16:50		Day Close			
	FREE EVENING – SEE THE APP FOR SUGGESTIONS.				



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	TUESDAY 6 JUNE			
8:00	Registration and Trade Open Fo			
08:20				Auditorium B
08:30	Plenary How long will my wood last? An overview of wood durability and protection. Marie-France Thevenon		Auditorium B Session Chair: Jeff Morrell Sponsored by: Forest & Wood Products Australia	
C4	S13: Teakwood Quality: Challenges and Opportunities	IUFRO-IRGWP SESSION S5: Wood Protection Systems for Long Term Carbon Storage		S29: Wood Anatomy, Chemistry and Function
Chair	Thulasidas PK	Marie-France Theve	non	David Drew
	Auditorium B	Meeting Room M2		Meeting Room M3
09:20	Supply chain management of forest biomass utilization for bioenergy industry development. Jingxin Wang	Zinc borate in wood coatings. Claudia Marcela Ibañez		Effect of mycorrhiza inoculation on the growth of <i>Khaya senegalensis</i> (a. Juss.) seedlings. Adejoke Akinyele
09:40	Towards a total transformation of teak wood in Togo: the contribution of smallholders in the city of Asrama. Komlan Houelete	Analysis of changes of colour and contact angle of wettability after thermal treatment process under atmospheric conditions. Marius Aleinikovas		Among-family variations of radial variation patterns of wood properties in Japanese cedar, hinoki cypress, and Japanese larch. Yusuke Takahashi
10:00	Situation and trends of trade and market access of tropical timber and timber products. Tetra Yanuaridi	Functionalised wood-based materials and products for carbon capture and storage. **Tripti Singh**		Valorisation of suberin from birch bark. Risto Korpinen
10:20	TEAKNET update presentation Thulasidas PK	High subterranean termite resistance of H2- and H3-weathered tropical hardwood kempas (<i>Koompassia malaccensis</i>) envelope-treated with a vegetal extracts- cypermethrin-based formulation.		Evaluation of xylem maturation manner by radial variation modeling of wood properties in fast-growing tree species in Japan. Ikumi Nezu
10:40	Morning Tea	Andrew Wong		Foyer
C5	S14: Biorefineries for Bio-based Products: A New Paradigm of Biomass Utilization Opportunities		IUFRO-IRGWP SESSION S8: Durable Hardwood S7: Natural durability (l Plantations
Chair	David Nicholls		Andrew Wong	
	Auditorium B		Meeting Room M2	
11:00	Biomass derived nanomaterial coatings for postharvest fruit quality control. Qinglin Wu			on Hoop pine (Araucaria cunninghamii) and calyptus cloeziana) growth and stem volume
11:20	Phenolation of potassium hydroxide lignin to improve its reactivity. M Sarwar Jahan		Natural durability of m and red mahogany Maryam Shirmohamm	id-rotation plantation Gympie messmate
11:40	Rapid chemical composition assessment of loblolly pine forest residues targeted for use in pyrolysis with near-infrared hyperspectral imaging. Sameen Raut		•	f Papua New Guinea plantation and
12:00	Advanced biomass inventory control models for biorefinery supply chain management. Nate Anderson		Naturally durable timb Tripti Singh	ers in log buildings of New Zealand.
12:20	LUNCH			



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C6	S12: Plantations Meet Carbon Reduction	S2: Sensor Networks	S26: Community and First Nations Forestry		
Chair	Juan Guo	Xiping Wang	Hulton King		
	Auditorium B	Meeting Room M2	Meeting Room M3		
13:20	Lignin a potential source for carbon- negative building materials. Zhiyong Cai	Discbot beyond radiata pine: expanding the use of a novel tool for mapping intrastem wood quality. Yvette Dickinson	Environmental and economic analysis of small-scale wood energy systems within Alaskas Native communities. David Nicholls		
13:40	Biomass and carbon sequestration in spotted gum <i>Corymbia citriodora</i> subsp. variegata (CCV) plantations. <i>Trinh Huynh</i>	d gum <i>Corymbia citriodora</i> subsp. tree disc scanning platform for use with 12 mm increment cores.			
14:00	Advances in solar wood drying. Gary Waugh Online processing of Resi traces for commercial inventory of plantation wood quality. Geoffrey Downes		Kazuyo Nagahama Mixedwood management in British Columbias boreal forest enhances biodiversity, sustainability, and First Nations traditional values. Christopher Hawkins		
14:20	Evaluation of biogenic carbon content of xylem of representative plantation trees in China. Yafang Yin	A comparison of Resi and Discbot. Jonathon Harrington	Building bridges for the Uapishka Biodiversity Reserve: a First Nation vision to think a better governance. Andréanne Girard-Lemieux		
14:40	Analysis of carbon reduction effect by biomass production at short rotation coppice forest of Poplar species in South Korea. Yoon-Seong Chang	Using ground penetrating radar to predict log moisture content of commercially important Canadian softwoods. Isabelle Duchesne			
15:00	10011-Seong Chang	Afternoon Tea			
13.00		Day Close			
		FREE AFTERNOON TO EXPLORE CAIRNS.			
	See conference app for suggestions.				
	WEDNESDAY 7 JUNE				
08:00	Registration Open		Foyer		
08:20	Housekeeping		Auditorium B		
08:30		Plenary	Auditorium B		
	Title Massive Timber Session Chairs: Roger Meder & Jonathon Hai	·	Sponsored by Hurford's		
C7	S10: Massive timber and EWP	S20.2: Outcomes from Forest Products Culture 2	S28: Forests, Climate and Environment		
	Roger Meder	Jinling Su	Pekka Saranpää		
	Auditorium B	Meeting Room M2	Meeting Room M3		
09:20					
09:40	Investigation of the performances of manufactured bagasse particleboard with treated Bagasse particles by tannin/ furfural resin. Marie-France Thevenon	Socio-cultural relationships of non-wood forest products Michelle Baumflek	Phytoremediation of soil contaminated with spent lubricating oil using Jatropha curcas Linn. Adejoke Akinyele		
10:00	Projecting US residential and nonresidential construction activities and carbon benefits	The importance of the International Journal of Wood Culture Michael Grabner	Investigating host preferences and environmental conditions for the		



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	of adopting mass timber under contrasting socioeconomic futures. Prakash Nepal			development of sandalwood in the tropics Duc Bui
10:20	Is Eucalyptus pellita grown in the tropics suitable for EWP and massive timber? Roger Meder	Black ash as a cultural keystone species: W8banakiak issues and perspectives. Laurence Boudreault		Planting trees in areas affected by major tropical cyclones. Gelito Inácio Franco Sululu
10:40	Morning Tea			
C8	S27: Agroforestry		S15.2: Future Pathways	s to Forests, Business and Sustainability 2
Chair	David Lee		Eric Hansen	
	Auditorium B		Meeting room M2	
11:00	Agroforestry systems for biodiversity conservation in human modified landscapes of Fiji Taioti Tiraon		Retrofitting with wood: the pathways to a sustainability transition in the rural context. Anne Viljanen	
11:20	Establishment of silvopastoral systems in private native forest in Southern Queensland, Australia. Nahuel Pachas		•	for enhancing corporate environmental ue business.
11:40	The economic contribution of coffee-based a smallholder farmers in case of Guraferda Dist Zone, Southwestern Ethiopia. Ferede Meseret			
12:00		L	UNCH	
	Elevator Pitch Session			Auditorium B
	Chair: Sam van Holsbeeck			
12:50	Imaging and quantification of the cambium a (CT) David Drew	nd developing xylei	m in eucalypts using X-ray	micro- and nano-computed tomography
12.50		properties of rattan	cane Calamus simplicifoli	us
12:55	Effects of steam-heating treatment on basic properties of rattan cane <i>Calamus simplicifolius</i> . Shumin Yang			
13:00	Information disclosure on environmental activities and corporate values of wood industry. Kenji Nagasaka			
13:05	A sustainable and clean future with bamboo:	a substitute for pla	stic.	
	Yanxia Li Non-destructive determination of Silver Birch (Betula pendula Roth.) and Black Alder (Alnus gluti nosa (L.) Gaertn) wood hardness in different genetic families. Roman Elizabera			
47.40				
13:10	Benas Šilinskas	es grown under int	ensively managed Johlolly	nine plantations
13:10 13:15		es grown under int	ensively managed loblolly	pine plantations.
13:15	Benas Šilinskas Quantify and predict wood and fiber properti Nawa Raj Pokhrel The potential of bamboo as a substitute for p Xiaohua Li			pine plantations.
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13:15 13:20 13:25	Benas Šilinskas Quantify and predict wood and fiber properti Nawa Raj Pokhrel The potential of bamboo as a substitute for p Xiaohua Li Ironwood in Seri Land. Jinling Su Modeling and simulating the growth of thinn Renato Castro	lastic: A perspective	e from carbon footprint.	
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13:15 13:20 13:25 13:30 13:35	Benas Šilinskas Quantify and predict wood and fiber properti Nawa Raj Pokhrel The potential of bamboo as a substitute for p Xiaohua Li Ironwood in Seri Land. Jinling Su Modeling and simulating the growth of thinn Renato Castro Wood anatomy of five native species of Parage Felicia Zárate Change of liquid-solid phase transition behav Jingbo Shi	lastic: A perspective ed and non-thinned guay of the Fabacea iour of water in wo	e from carbon footprint. d Eucalyptus forests at the ae family. od with moisture content	individual tree level
13:15 13:20 13:25 13:30	Benas Šilinskas Quantify and predict wood and fiber properti Nawa Raj Pokhrel The potential of bamboo as a substitute for p Xiaohua Li Ironwood in Seri Land. Jinling Su Modeling and simulating the growth of thinn Renato Castro Wood anatomy of five native species of Parage Felicia Zárate Change of liquid-solid phase transition behave	lastic: A perspective ed and non-thinned guay of the Fabacea iour of water in wo	e from carbon footprint. d Eucalyptus forests at the ae family. od with moisture content fication in China	individual tree level
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C9	IUFRO-IRGWP SESSION	S17: Bamboo & Rattan	S1.2: In-forest Wood Quality	
	S9: Global Timber Durability Research		Assessment, 2	
	S6: Termite Management Tripti Singh	Changhua Fang	Geoff Downes	
	Auditorium B			
	7.00.00.00.00	Meeting Room M2	Meeting Room M3	
14:30	Metal migration from treated wood vineyard trellising into soil and vine biomass 30 months after installation. Gerald Presley	Bamboo wastes to solid biofuel in China: Opportunities, technologies, applications, and challenges. Zhijia Liu	Compression strength of planted Eucalyptus pellita wood by near-infrared (NIR) spectroscopy. Adlin Roseley	
14:50	Performance of CCA and ACQ treated radiata pine heartwood decking: 24-year trial. Jeffrey Morrell	Development of biomass-modified bamboo fibers for reinforcing asphalt-based composites. **Renhui Qiu**	Wood and timber properties in even- and uneven-aged Norway spruce stands modeled using a data-fusion approach. Jiri Pyörälä	
15:10	Effects of moisture content cycles on screwed timber connections. Luis Yerman	Properties of ply bamboo manufactured from two Malaysian bamboo species. Alia Syahirah	A stand simulator to predict strength grade in Sitka spruce stands in Great Britain: a preliminary version. Ruben Manso	
15:30	Study on biocide-free wood modification techniques and how they impact on the termite resistance of wood. Holger Militz	Photo-curing 3D printing of biocomposites from bamboo fibers and palm oil-based resins. Wendi Liu	Non-destructive wood quality assessment of commercially grown <i>Eucalyptus pellita</i> on the Tiwi Islands, Northern Australia. <i>Listya Mustika Dewi</i>	
15:50	Assessment of termite damage in CLT sections using micro-computed tomography. Maryam Shirmohammadi	Innovative Utilization of Bamboo for drinking straws manufacturing with low cost and high performance. Changhua Fang	A microactuator device for the detection of termite damage in timber poles. Sebastian Oberst	
16:10	Comparative durability against subterranean termite attack, white rot and soft rot decay among 68 Malaysian lesser-used or renown commercial hardwoods including planted exotic hardwoods and imported Burmese teak, radiata pine and Douglas Fir. Andrew Wong	Research and application of bamboo bridge and building in China John Changzhuan Shao		
16:30		Day Close		
19:00 -		CONFERENCE DINNER		
22:00	Cnon		ast	
22.00	Sponsored by University of Sunshine Coast			



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	THURSDAY 8 JUNE			
8.20	Housekeeping			
8:30	PLENARY			
	Forest products and bioeconomy strategies			
	Session Chairs: David Nicholls & Pekka Saranpää			
C10	S11: New and Emerging Species for Forest Plantations	S16: Transiting to the bioeconomy: the contributions of non- timber forest products		
Chair	Trinh Huynh	Carsten Smith-Hall		
	Auditorium B	Meeting Room M2		
9:10	Specialty timber market development - determining imported timber traits. Karen Bayne	Theorising and analysing the forest-based bioeconomy through a global production network lens. Carsten Smith-Hall		
9:30	Cape York Sandalwood, an emerging native species for Indigenous forestry. David Lee	Improving social resilience through Food Forests - an alternative plantation regime. Karen Bayne		
9:50	Exotic <i>Grevillea robusta</i> tree improvement programme in northern hemisphere. <i>Maneesh Singh Bhandari</i>	Current status and market analysis for aloe products in Samburu County, Kenya. Elyas Hassan Mohamed		
10:10	Selection of candidate species for productive tree plantations in Borneo, Malaysia Yani Japarudin (Roger Meder)			
10:30	Mornin	ng Tea		
10:50	Working Group Business Meetings RG-05.01 to RG-05.12			
12:15	LUNCH			
13:00	Division 5 Research Group Feedback and Discussion			
14:30	CLOSING Conference Close. Andrew Wong			
14:45	AFTERNOON TEA			