



**INTERNATIONAL  
ACADEMY OF  
WOOD  
SCIENCE  
2018  
ANNUAL MEETING**

*"Biosustainable materials: Key to a better future"*

**IAWS 2018  
ANNUAL MEETING**

**ORAL SESSIONS**

ORAL SESSIONS - PROGRAM								
	WS&Q-O	WOOD STRUCTURE AND QUALITY						
	SUSTBIO-O	SUSTAINABLE BIOMATERIALS						
	CELNANO-O	CELLULOSE NANOMATERIALS						
	FOR-O	FORESTRY						
	BIOREF-O	BIOREFINERIES						
ROOM ARANDAS					ROOM ANALCO			
	MONDAY	TUESDAY	WEDNESDAY	FRIDAY	MONDAY	TUESDAY	WEDNESDAY	FRIDAY
09:00 - 09:20		39*	29*	87	09:00 - 09:20	16*	45*	2*
09:20 - 09:40				1	09:20 - 09:40			
09:40 - 10:00		8	61	69	09:40 - 10:00	86	13	10
10:00 - 10:20		27	32	83	10:00 - 10:20	18	26	52
10:20 - 10:40		COFFE BREAK			10:20 - 10:40	COFFE BREAK		
10:40 - 11:00		36	82	42	10:40 - 11:00	21	11	59
11:00 - 11:20		20			11:00 - 11:20		53	
11:20 - 11:40					11:20 - 11:40	28**		
11:40 - 12:00					11:40 - 12:00			
12:00 - 12:30		PLENARY II	PLENARY III	PLENARY IV	12:00 - 12:30			
12:30 - 13:00					12:30 - 13:00			
15:00 - 15:20		12	14*		15:00 - 15:20	4	71	
15:20 - 15:40		7			15:20 - 15:40	85	72	
15:40 - 16:00		3	63		15:40 - 16:00			
16:00 - 16:20		60	24		16:00 - 16:20			
16:20 - 16:40		COFFE BREAK			16:20 - 16:40			
16:40 - 17:00		48	67		16:40 - 17:00			
17:00 - 17:20		76	77		17:00 - 17:20			
17:20 - 17:40		49	84		17:20 - 17:40			
17:40 - 18:00					17:40 - 18:00			
18:00 - 18:30	OPENING				18:00 - 18:30			
18:30 - 19:00	PLENARY I				18:30 - 19:00			
19:00 - 19:30					19:00 - 19:30			

NOTES: \*Keynote (30 min + 10min Q&A), \*\*IAWS PhD Award Winner (30 min + 10min Q&A), Regular Presentations (15 min + 5 min Q&A). Please be in the meeting room for your session at least 15 minutes before it is due to start, to meet your Chair and the technicians. All presentations must be in electronic PPT or PPTX format. If you have a special request please contact the meeting staff at least 1 hour prior to your session.

<b>ROOM ARANDAS</b>		
<b>WOOD STRUCTURE AND QUALITY</b>		
<b>TUESDAY - MORNING SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
9:00 – 9:40	<b>39</b>	Douglas fir wood from plantations in Germany – some selected characteristics
09:40 – 10:00	8	Differences in the wood structural chemical composition in cactaceae
10:00 – 10:20	27	Wood and paper properties by x-ray diffractometry
10:20 – 10:40	<b>COFFE BREAK</b>	
10:40 – 11:00	36	Structural characterization of lignin from different types of wood in cactaceae species by NMR, Py-GC/MS and ATR-FTIR: a biological approach
11:00 – 11:20	20	Mummified fossils of Keteleerioxylon (Pinaceae) from the late Eocene of Maoming, South China and its phytogeographical, paleoecological implications
<b>TUESDAY - AFTERNOON SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
15:00 – 15:20	12	Describing the variability of the specific gravity value of wood in trees and forests
15:20 – 15:40	7	Extractive micro-distribution in Douglas fir sapwood and heartwood: effects on cell wall porosity
15:40 – 16:00	3	On-site monitoring of the moisture content of bridge decks made of nailed-laminated timber
16:00 – 16:20	60	Extractives and natural durability of teak wood from Mexican plantations
16:20 – 16:40	<b>COFFE BREAK</b>	
16:40 – 17:00	48	Design and innovation in wood products
17:00 – 17:20	76	Designing for social empathy in the classroom using wood as part of the value proposition
17:20 – 17:40	49	Electronic Product design using wood as principal material

<b>ROOM ARANDAS</b>		
<b>WOOD STRUCTURE AND QUALITY</b>		
<b>WEDNESDAY - MORNING SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
9:00 – 9:40	<b>29</b>	Automated scanning microscopy of wood microstructure
09:40 – 10:00	61	Antifungal activity of extracts of the woods <i>Caesalpinia platyloba</i> , <i>Lysiloma latisiliquum</i> , <i>Metopium brownei</i> and <i>Piscidia piscipula</i> .
10:00 – 10:20	32	Chemical, morfologic analysis and biodegradation of densified ash ( <i>Fraxinus americana</i> ) wood
10:20 – 10:40	<b>COFFE BREAK</b>	
10:40 – 11:00	82	Evaluation of the number of resin canals in a trial of <i>Pinus pringlei</i> shaw progenies at the site La Calera in the state of Michoacán, Mexico
<b>SUSTAINABLE BIOMATERIALS</b>		
<b>WEDNESDAY - AFTERNOON SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
15:00 – 15:40	<b>14</b>	Wood Culture: Responsible Wood Usage for a Sustainable Future
15:40 – 16:00	63	Implementation of international graduate courses on biosustainable materials: the experience of the Department of Wood, Cellulose and Paper
16:00 – 16:20	24	Assessment of physical and mechanical properties of an engineered wood flooring made of different wood properties
16:20 – 16:40	<b>COFFE BREAK</b>	
16:40 – 17:00	67	In vitro genotoxicity of extracts obtained from <i>Eysenhardtia polystachya</i> (Ort.) Sarg.
17:00 – 17:20	77	Glutamate glucan-xylan complexes as dry-strength agents for bonding of cellulosic fibers
17:20 – 17:40	84	Glue line resistance of some commercial adhesives used in tropical mexican woods

<b>ROOM ARANDAS</b>		
<b>SUSTAINABLE BIOMATERIALS</b>		
<b>FRIDAY - MORNING SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
9:00 – 9:20	87	Agave fiber reinforced gypsum flat panels
9:20 – 9:40	1	Compatibilization of PLA/natural fiber biocomposites using PLA functionalization with maleic anhydride
09:40 – 10:00	69	Design and development of products based on compounds formed by agave fiber residues and bioplastic
10:00 – 10:20	83	Medicarpin-Lignin adhesive formulations for wood antifungal applications
10:20 – 10:40	<b>COFFE BREAK</b>	
10:40 – 11:00	42	Hexavalent chromium removal by nanocomposite adsorbents comprised of layered double hydroxides and biopolymers (chitosan or lignin)

<b>ROOM ANALCO</b>		
<b>CELLULOSE NANOMATERIALS</b>		
<b>TUESDAY - MORNING SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
9:00 – 9:40	<b>16</b>	Zwitterionic celluloses: chemical functionalization, characterization and possible applications
09:40 – 10:00	86	Chemical modification to obtain a zwitterionic cellulose and its performance in the uptake of Congo red dye
10:00 – 10:20	18	Chemical modification of cellulose with ionic functional groups for the elimination of compounds with ionic and aromatic nature present in tequila vinasses
10:20 – 10:40	<b>COFFE BREAK</b>	
10:40 – 11:00	21	Simple procedure for preparing zwitterionic cellulose using N-protected aspartic anhydrides under a green and click chemistry approach
11:00 – 11:40	<b>28</b>	Characterization and modification of a cellulose II gel
<b>TUESDAY - AFTERNOON SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
15:00 – 15:20	4	Properties of cellulose nanocrystal reinforced polymer composites based on 3D printing
15:20 – 15:40	85	Nanocellulose of agroindustrial waste and its potential application in water and energy

<b>ROOM ANALCO</b>		
<b>FORESTRY</b>		
<b>WEDNESDAY - MORNING SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
9:00 – 9:40	45	Fire management units as strategy of prevention, control and restoration in forest fires
09:40 – 10:00	13	Platform for illegal wood identification with DART-MS
10:00 – 10:20	26	Resin canals and the potential resin yield of <i>Pinus oocarpa</i> in a progeny trial
10:20 – 10:40	<b>COFFE BREAK</b>	
10:40 – 11:00	11	A universal biometric system for assessing the dimensions of trees and forests
11:00 – 11:20	53	Distribution and potential timber uses of four Oak species in Jalisco, Mexico
<b>WEDNESDAY - AFTERNOON SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
15:00 – 15:20	71	Fire behavior in relation to environmental variables in a temperate forest
15:20 – 15:40	72	Relation of the increase of agricultural areas with the occurrence of forest fires

<b>ROOM ANALCO</b>		
<b>BIOREFINERIES</b>		
<b>FRIDAY - MORNING SESSION</b>		
	<b>ID</b>	<b>TITLE</b>
9:00 – 9:40	<b>2</b>	Visualization of plant cell wall deconstruction during chemical pretreatment process
09:40 – 10:00	10	Potential bio-ethanol production from woody biomass feedstocks
10:00 – 10:20	52	Improvement of the enzymatic hydrolysis of paperboard fines by ionic liquids based on choline
10:20 – 10:40	<b>COFFE BREAK</b>	
10:40 – 11:00	59	Microbial oil produced from wastes as a feedstock for biodiesel production