

5th Wood and Biofibre International Conference 2021 (WOBIC 2021)
Tentative Programme

DAY 1 TUESDAY 23-Nov-21										
0900-930	Registration									
1000-1010	Welcoming remarks by YBhg. Prof. Ir. Dr. Mohd Sapuan Salit, Chairman of WOBIC 2021 Organising Committee									
1010-1040	Opening ceremony by YBhg. Prof. Ts. Dr. Iqbal Saripan, Deputy Vice Chancellor (Academic & International), Universiti Putra Malaysia									
1040-1100	MoU signing UPM & MTIB UPM & Rimbun Foundation									
1010-1040	Book Launching: Bio-based Packaging - Material, Environmental and Economic Aspects, S.M. Sapuan and R.A. Ilyas, 2021, Wiley USA									
1040-1100	Video montaj									
1115-1200	Chair Session: Dr. Mohammad Jawaid	Plenary Speaker Prof. Dr. Salim Hiziroglu Value-added composites from underutilized wood and non-wood species Oklahoma State University, USA							Q&A	
1200-1230	Chair Session: Prof. Dr. Annuddin	Plenary Speaker Dr. Jean-Marc Roda Epistemology of circular economy and implications for forestry and wood products CIRAD Regional Director for the SouthEast Asian Island Countries, INDONESIA							Q&A	
1230-1300	Chair Session: Prof. Ts. Dr. Khalina	Plenary speaker Pn. Hajah Roslina Idris Malaysian timber industry: Gearing towards a resilient industry Director, Licensing and Inspectorate, Malaysia Timber Industry Board (MTIB), MALAYSIA							Q&A	
1300-1400	LUNCH BREAK									
1400-1445	Chair Session: Prof. Ir. Dr. Mohd. Sapuan Salit	Keynote Speaker Prof. Vijay Kumar Thakur Sustainable materials from macro to nanoscale for a circular bioeconomy Scotland's Rural College (SRUC) Scotland, UK							Q&A	
		THEME		THEME		THEME		THEME		
		BIOPOLYMERS & BIOCOMPOSITES		BIOPOLYMERS PACKAGING		ADVANCED MANUFACTURING IN BIOCOMPOSITES		NEW PLANTING AND FOREST PLANTATION		IR 4.0 in Forest Industries
1445-1510		Invited Speaker Assoc. Prof. Mohamed Ansari Mohamed Nainar Wood-based activated carbon for supercapacitor electrode Universiti Tenaga Nasional, MALAYSIA	1445-1510	Invited Speaker Prof. Dr. Sarat Kumar Swain Cellulosic fiber based nanocomposites for packaging application. Veer Surendra Sai University of Technology, INDIA	1445-1510	Invited Speaker Dr. Ramzi Khiari Cellulose nanofibril from Prunus amygdalus: Mechanical properties and morphological features Higher Institute of Technological Studies in Ksar-Hellal, TUNISIA	1445-1510	Invited Speaker Dr. Muhammad Mohsin Development of environment friendly and nontoxic bio finishing for cotton University of Engineering and Technology, PAKISTAN	1445-1510	Invited Speaker Prof. Dr. Ahmad Ainuddin Nuruddin Forest fires and IoT Universiti Putra Malaysia, MALAYSIA
		Q & A		Q & A		Q & A		Q & A		Q & A
1510-1535		Invited Speaker Dr. Zainab Idris Oil palm biomass: Sustaining the oil palm industry through value addition Malaysian Palm Oil Board, MALAYSIA	1510-1525	WOBIC 2021: 124-098 Dr. Norfaryanti Kamaruddin The assessment of supply chain, business strategies and markets in biodegradable food packaging	1510-1535	Invited Speaker Prof. Dr. Rafaqat Hussain Tailoring the in-vitro bioactivity of bioglass synthesizing novel bio-ceramic materials for orthopedic applications COMSATS Institute of Information Technology (CIIT) PAKISTAN	1510-1525	WOBIC 2021: 084-053 Norhazaedawati Baharuddin Effects of boron and copper chrome boron (CCB) treatment on physical and mechanical properties of <i>Gigantochloa scortechinii</i>	1510-1525	WOBIC 2021: 019-011 Nor Amira Izzati Ayob The properties of 3D printed poly(lactic acid) (PLA)/ poly (butylene-adipate-terephthalate) (PBAT) blend and oil palm empty fruit bunch (EFB) reinforced PLA/PBAT composites used in fused deposition modelling (FDM)
		Q & A		WOBIC 2021: 087-066 Zatil Hazrati Kamaruddin Starch-based biocomposites for packaging applications: A review		Q & A		WOBIC 2021: 056-037 Nor Izaida Ibrahim The effect of delignification on the mechanical, thermal and morphological properties of <i>Gigantochloa scortechinii</i> (Buluh Semantan) fiber	1525-1540	WOBIC 2021: 099-076 Sheriza Mohd Razali Forest plantation mapping using random tree of supervised classification
1535-1600		Invited Speaker Dr. Mohamed Midani Optimizing and benchmarking the performance of date palm textile fiber composites Wilson College of Textiles, USA & German University in Cairo, EGYPT	1540-1550	TEA BREAK	1535-1600	Invited Speaker Dr. Ali Kilic Biofibres for advanced applications: Energy, medical, food and composites Istanbul Technical University TURKEY	1540-1555	WOBIC 2021: 028-017 U. Seeta Uthaya Kumar Properties and characterisation of biodegradable packaging material	1540-1555	WOBIC 2021: 108-082 Nafis Syahmi Zainal Azali Wood dust fibre composite mechanical properties Influence on fused deposition modeling for fused filament fabrication (FFF)
		Q & A		THEME		Q & A		WOBIC 2021: 041-094 Roziela Hanim Alamjuri Influence of various additives on properties of boron-tannin based wood preservatives	1555-1610	WOBIC 2021: 113-091 Mr. Moustafa Alaa Ibrahim Moustafa Fabrication and characterization of 3D filaments of kenaf/poly(lactic acid) biocomposite
1600-1610		TEA BREAK		NANO-BIOCOMPOSITES		TEA BREAK		TEA BREAK	1610-1620	TEA BREAK
		Q & A		Invited Speaker Dr. Ahmad Ilyas Rushdan Emerging development of sugar palm (<i>Arenca pinnata</i> (Wurmb.) Merr.) nanocellulose: from macro to nanoscale Universiti Technology Malaysia, MALAYSIA	1600-1610	Q & A		WOBIC 2021: 089-059 Alyaa Ibrahim Napier grass composite	1620-1645	WOBIC 2021: 106-079
1610-1625		WOBIC 2021: 070-042 Saleh Naji Musaed Alsubari The energy-absorbing capability of foam-filled honeycomb structures made of flax/poly(lactide) composite	1615-1630	WOBIC 2021: 017-010 Nurul Atiqah Mohd Saad The isolation of cellulose nanofibrillated fibers by supercritical carbon dioxide assisted by high-pressure homogenization and the reinforcement in biopolymer film	1610-1625	WOBIC 2021: 035-024 Dr. Loh Yueh Feng Enhancement of manufacturing process for oil palm trunk plywood	1620-1635			
		WOBIC 2021: 003-016		WOBIC 2021: 024-018		WOBIC 2021: 046-049				

Chair Session: Dr. Mohamed Jawaid
Assistant Chair : Dr. Ayu Raifqah Shafi

Chair Session: Dr. Ridhwan Jumaidin Universiti Teknikal Malaysia Melaka
Assistant Chair: Muhammad Harussani bin Moklis

Chair Session: Dr. Shahri Anuar Bahari (UITM)
Assistant Chair: Mohamed Omar Syafiq bin Razali

Chair Session: Prof. Dr. Hidayah Binti Ariffin
Assistant Chair: Nazrin Nurarif Mardhi bin Asmawi

Chair Session: Dr. Noor Ida Amalina Ahmad Nordin (Universiti Malaysia Pahang)
Assistant Chair: Chair: Amira Nabila binti Amir Mustafa

THEME
WOOD AND BIOFIBRE IN COVID19
Invited Speaker
Assoc. Prof. Dr. Yasir Nawab
Dry pre-pregs by commingling technique: A alternative route of thermoplastic composite fabrication

1625-1640	Ayu Rafiqah Shafi	1630-1645	Siti Hasnah binti Kamarudin	1625-1640	Nurul Ain Maidin	1635-1650	Amera Natasha Mah Muhammad Adam Mah	National Textile University, PAKISTAN
	Characterization on different types of modified tapioca starch		Cellulose nanocomposite in construction approach towards innovative, sustainable and durable formwork		Constructing a framework for selecting natural fibre as reinforcement composites based on grey relational analysis		Aquatic fauna composition and their ecological interactions in eucalyptus and other forest plantations	Q & A
1640-1655	WOBIC 2021: 054-035 Muhammad Harussani Moklis	1645-1700	WOBIC 2021: 016-009 Niyi Gideon Olaiya	1640-1655	WOBIC 2021: 014-077 Dr. Juliana Abdul Halip	1650-1705	WOBIC 2021: 022-014 Shaiful Rizal Masrol	WOBIC 2021: 101-074 Satya Guha Nukala
	Recent development of biomass and plastic waste derived char filled natural starch biocomposite briquettes		Cellulose nanofibre functional material characterization and reinforcement in poly(lactic acid-chitin) biocomposite		The effect of bamboo ages on the tensile properties for textile application: A review		Durian rind as an alternative non-wood based resource for pulping and papermaking: A review	Simulation of wood polymer composites using sustainable raw materials
1655-1710	WOBIC 2021: 094-069 Nurul Hanan Taharuddin	1700-1715	WOBIC 2021: 080-048 Fatima Ismail	1655-1710	WOBIC 2021: 067-068 Norhani Jusoh	1705-1720	WOBIC 2021: 091-060 George Lee Zhi Xuan	WOBIC 2021: 127-096 Md. Rowson Ail
	The influence of agar on the moisture content of thermoplastic sago starch		The effect of chemical and high pressure homogenization treatment conditions on the morphology of nanocellulose		Optimization of wet disc milling processing conditions for minimizing the energy consumption during cellulose nanofibrils production from cellulose with high degree of polymerization		Bond-slip model of bamboo in cementitious material: A review	Biological properties of hydrothermally treated rubberwood (<i>Hevea brasiliensis</i>) in different buffered media
1710-1725	WOBIC 2021: 090-061 Muhammad Aizzuddin Mohamad	1715-1730	WOBIC 2021: 047-057 Mohamad Omar Syafiq Razali	1710-1725	WOBIC 2021: 055-036 Muhammad Harussani Moklis	1720-1735	WOBIC 2021: 065-040 Dr. Shahlinney Lipch	WOBIC 2021: 038-027 Alia Syahirah Yusoh
	Flexural analysis of hemp and kenaf with glass hybrid fibre laminates filled polyester resin		Effect of plasticizer types and concentrations on physical and mechanical properties of plant based nanocellulose/starch biocomposite films incorporated with essential oil: A review		A review of the recent developments in natural fibres reinforced biocomposite in structure and defence technology		Bibliometric study on durability of bamboo literature 2011-2021	Mechanical performance and modes of failure of cross-laminated timber (CLT) manufactured from tropical hardwoods species

**DAY 2
WEDNESDAY
24-Nov-21**

0900-0945	Chair Session: Prof. Dr. Paiddah Md Tahir	Keynote Speaker Prof. Dr. Alcides Lopes Leão Natural fibers and its role in advanced materials São Paulo State University, BRAZIL Q & A						
0945-1015	Chair Session: Dr. Lee Seng Hua	Plenary Speaker Prof. Dr. Hazizan Md Akil Advances, challenges and future outlook on the potential applications of natural fibre reinforced composites Universiti Sains Malaysia, MALAYSIA Q & A						
1015-1045	Chair Session: Dr. Alimun Zuriyah Mohamed	Plenary Speaker Dr. Rushdan Ibrahim Research and development (R&D) works on non-wood species by Pulp and Paper Laboratory, Forest Research Institute Malaysia (FRIM) Forest Research Institute Malaysia, MALAYSIA Q & A						
1045-1115	Chair Session: Assoc. Prof. Dato' Dr. Hng Paik San	Plenary Speaker Prof. Dr. Sarani Zakaria Biobased polyurethane foam from liquified lignocellulose materials Universiti Kebangsaan Malaysia, MALAYSIA Q & A						
1115-1130		TEA BREAK						

THEME		THEME		THEME		THEME		THEME	
BIOPOLYMERS & BIOCOSITES		BIOPOLYMERS & BIOCOSITES		ADVANCED MANUFACTURING IN BIOCOSITES		COMMUNITY INDUSTRY ENGAGEMENT PROJECT		ADVANCED MANUFACTURING IN BIOCOSITES	
1130-1145	WOBIC 2021: 061-071 Stasha Eleanor Rosland Abel	1130-1145	Invited Speaker Assoc. Prof. Dr. Mohammad Mansoob Khan	1130-1145	WOBIC 2021: 031-078 Dr. Mohd Hafiezal Mohd Radzi	1130-1145	Invited Speaker Dr. Sharouj Jambari,	1130-1145	WOBIC 2021: 116-089 Dr. Noor Intan Saffinaz Anuar
	Recovery and physicochemical characterisation of cellulose derived from oil palm empty fruit bunches		Green synthesis of composites for energy and environment applications.		Thermal and fire smoke toxicity behaviour of hybrid palm/glass/carbon in jatropha blended bio-epoxy		Innovation-network to drive industry development leveraging on Industrial Collaboration Program (ICP) for government procurement		Thermo-physico-mechanical properties of chemically modified kenaf/PP nonwoven composite with PVA urea/silane
1145-1200	WOBIC 2021: 004-065 Farah Nabila Mhd Idris	1145-1200	Universiti Brunei Darussalam, BRUNEI	1145-1200	WOBIC 2021: 085-056 Mohamad Asrofi Bin Muslim	1145-1200	Technology Depository Agency (TDA), MALAYSIA	1145-1200	WOBIC 2021: 048-054 Aliyu Isah
	Characteristics of unbleached oil palm empty fruit bunch paper incorporated with lignocellulose nanofibrils		Q & A		Energy absorbed of natural fibre composites and synthetic hybridization		Q & A		Overview of fibre ash synthesis and characterization for industrial applications
1200-1215	WOBIC 2021: 020-062 Najieha Norazi	1200-1215	WOBIC 2021: 045-052 Nazrin Nurarif Asmawi	1200-1215	WOBIC 2021: 095-070 Mohd Azlin Mohd Nor	1200-1215	WOBIC 2021: 079-046 Siti Hajar Nadjwa Abdullah	1200-1215	WOBIC 2021: 050-032 Seri Nur Zumaimi Ahmad
	Physicochemical, morphological and thermal analysis of microcrystalline cellulose extracted from oil palm empty fruit bunch using different delignification approached		A review on degradation of biopolymer composites in liquid environments		Fiber reinforced polylactic acid (PLA) hybrid composites: A review		Simulated framework as feeder data for biomass management analytics		The effects of layering sequences on flexural properties of kenaf/glass hybrid composites for bus bumper application
1215-1230	WOBIC 2021: 009-006 Tarique Jamal	1215-1230	WOBIC 2021: 074-043 Siti Ainy Nor Mohamed	1215-1230	WOBIC 2021: 007-005 Shah Faisal Khan Sherwani	1215-1230	WOBIC 2021: 103-075 Assoc. Prof. Dr. Zaiton binti	1215-1230	WOBIC 2021: 036-025 Asniza Mustapha
	A descriptive study of Arrowroot (Maranta arundinacea) based biocomposites		Fatigue life estimation of rice husk fibre reinforced polypropylene composite by equivalent initial flaws concept		Fatigue Life of Natural Fibre Reinforced Polymer Ccomposites: A Review		Socio-economic impact of eucalyptus plantation: Perspective of local community in Sabah, Malaysia		Structural analysis and thermal properties of nanocrystalline cellulose extracted from Semantan and Beting bamboo species
1230-1245	WOBIC 2021: 092-063 Nur Diyana Binti Zakuan	1225-1240	WOBIC 2021: 075-044 Dr. Nur Eliyanti Ali Othman	1230-1245	WOBIC 2021: 086-055 Mohd Izwan Shahaaruddin	1225-1240	WOBIC 2021: 015-041 Nur Hafizah Azhar	1230-1245	WOBIC 2021: 044-045 Lawrence Ng
	Effect of beeswax on the density and moisture content behavior of thermoplastic cassava starch		The effect of different concentration of sodium hydroxide on carboxymethyl cellulose properties		Recent developments in hybrid biocomposites for non-structural applications: A review		Oil palm biomass enhanced product compatibility for the COVID-19 affected packaging industry		Nanobiochar as a filler to improve the thermal stability of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)
	WOBIC 2021: 093-064 Zatli Hafila		WOBIC 2021: 057-038 Walid A M Abotbina		WOBIC 2021: 042-030 Dr. Ridhwan Jumaidin		WOBIC 2021: 130-100 Dr. Syeed SaifulAzry		WOBIC 2021: 026-039 Nur Sharmila Sharip

1245-1300		Effect of palm wax on the density and moisture content behavior of thermoplastic cassava starch	1240-1255	Incorporating black seed fibre in biocomposite backgaging material a review	1245-1300	Effect of coconut fiber on the density and moisture content behavior of thermoplastic cassava starch	1240-1255	PUTRA Rimba Rimbun - Tropical forests and the environment awareness and education programme for community	1245-1300	Cellulose nanofiber improved mechanical-tribological properties of ultra-high molecular weight polyethylene for tibial inserts potential application
1300-1315		WOBIC 2021: 049-033 Nur Marini Zainal Abidin		WOBIC 2021: 025-086 Nur Diyana Ahmad Fazil		WOBIC 2021: 088-058 Mohd Azrul bin Jaafar		WOBIC 2021: 125-095 Nurul Ain Nadirah Jamaluddin		WOBIC 2021: 119-093 Norfarhana Abdul Samad
1300-1315		A review on computational work analysis of natural fiber reinforced composites	1255-1310	Thermal properties of miswak fibres (<i>Salvadora persica</i>) composites reinforced poly(lactic acid)	1300-1315	Influence of stacking sequence and hybridization on the tensile properties of glass, hemp and kenaf composites	1255-1310	Characterization of nanofibrillated cellulose from <i>Macaranga gigantea</i>	1300-1315	Rice husk reinforced thermoplastic ENR/PVC as potential membrane technology in industrial wastewater treatment: A review
1315-1325		TEA BREAK	1310-1320	TEA BREAK	1315-1325	TEA BREAK	1310-1320	TEA BREAK	1315-1325	TEA BREAK
1325-1335	Assistant Chair: Shah Faizat Khan Sherwani POSTER SESSION	WOBIC 2021: 030-019 Mohd Khairun Anwar Bin Uyup	1320-1330	WOBIC 2021: 032-022 Tumirah Bt. Khadiran	1325-1335	WOBIC 2021: 023-013 Revati Radakisinin	1320-1330	WOBIC 2021: 078-067 Faziana Abdul Hamid	1325-1335	WOBIC 2021: 040-029 Nordahlia Abdullah Siam
1335-1345		WOBIC 2021: 002-004 Fathi Aluhishi Muftah Masoud M Masoud	1330-1340	WOBIC 2021: 032-023 Tumirah Bt. Khadiran	1335-1345	WOBIC 2021: 012-008 Wan Nur Fathiah Amirah Nik Wan @ Wan Senik	1330-1340	WOBIC 2021: 013-007 Fathin Sakinah Mohd Radzi	1335-1345	WOBIC 2021: 053-034 Norihan Abdullah
1345-1355		WOBIC 2021: 061-085 Stasha Eleanor Rosland Abel	1340-1350	WOBIC 2021: 073-081 Yanti Abdul Kadir	1345-1355	WOBIC 2021: 097-073 Noorshamsiana Abdul Wahab	1340-1350	WOBIC 2021: 030-021 Mohd Khairun Anwar Bin Uyup	1345-1355	WOBIC 2021: 082-050 Rafidah Jalil
1355-1405		WOBIC 2021: 037-026 Surenthiran Gnanasekaran	1350-1400	WOBIC 2021: 107-080 Noor Azrieda Abd Rashid	1355-1405	WOBIC 2021: 011-047 Mohamad Asyraf Azman	1350-1400	WOBIC 2021: 039-028 Fadzureena Jamaludin	1355-1405	WOBIC 2021: 083-051 Roszaini Kadir
1405-1420			Influence of temperature on yield and physicochemical characteristics of carbonised oil palm empty fruit bunch cellulose		Physical and Mechanical Properties of plywood made from meranti temak nipis (<i>Shorea roxburghii</i>) - Part 2		Chlorine-free extraction of cellulose from oil palm plantation residues		Four commercial rattan species used in furniture industry	
1405-1420		Influence of isopropyl alcohol and milling time on CNF isolation from pineapple leaf fiber		Rolling resistance of castor wheels based on BS EN 1728:2012, clause 6.30		Development sustainability design of ballistic helmet using alternative natural fiber reinforcement hybrid composites		Prototype development based on traditional knowledge documentation of orang asli Semai in Ulu Geroh, Gopeng Perak		Introduction of a biocide into bionanoparticles for rubberwood preservation
1420-1450	Chair Session: Prof. Ts. Khalina Abdan Floor Manager: Postgraduate 11	TEA BREAK								
1450-1600		<p>Plenary Speaker Dr. Rob Elias Pressurised refining for MDF and the circular economy Bangor University, UK Q&A</p> <p>Forum Discussion From surviving to thrive: Harnessing the circular economy for wood and biofibre in the post-pandemic era Moderator: Prof. Ts. Dr. Khalina Abdan</p> <p>Dato' Dr. Jalaluddin Harun, Fellow Alternate Chairperson of the Science & Technology Dev. and Industry Discipline, Academy Sciences Malaysia, MALAYSIA Assoc. Prof. Dr. Yasir Nawab, National Textile University, PAKISTAN Y. Bhg Datuk Wira Sheikh Othman Rahman, Chairman of the Malaysian Panel-Products Manufacturers' Association (MPMA), MALAYSIA</p>								
1600-1630	Best oral and poster announcement and closing speech by YBhg. Prof. Ts. Dr. Khalina Abdan, Chairman of WOBIC 2021 Steering Committee									