



SUNDAY, NOVEMBER 13TH

18:00 Registration and Welcome drink (UDT)

MONDAY, NOVEMBER 14TH

08:00 - 09:00	Registration	
09:00 - 09:40	Opening ceremony Alex Berg - Executive Director Technological Development U Carlos González - Vice-rector of Research and Development, Roger M. Rowell - Professor Emeritus of the University of Wis	University of Concepción.
09:40 - 10:30	PLENARY SESSION Andreas Michanickl, University of Ap <mark>plied Sciences Rose</mark> nhei "Wood-Based-Panels and Composit <mark>es – Challenges and Pe</mark> rs	
10:30 - 11:00	Coffee	
11:00 - 11:40	SESSION 1: BIOCOMPOSITES I Keynote: Shigehiko Suzuki, Shizuoka University, Japan. "Elements of wood-based material research from lamina to nano".	SESSION 2: ADHESIVES AND BONDING Keynote: Warren Grigsby, SCION, New Zealand. "Interfacial Adhesion Behaviors within Natural Fiber Composites: A View at Fiber Level".
11:40 - 12:05	The Use of X-Ray Computed Tomography in Bio-Composite Research. José Couceiro, Luleå University of Technology, Sweden.	Mecanical Performance of Clue Jointd in Structural Hardwod Elements. Peter Niemz, ETH Zurich, Institute for Building Materials, Switzerland.
12:05 - 12:30	A New Biobased Composite M <mark>aterial Using Bark Fibres</mark> <i>Eucalyptus.</i> Cecilia Fuentealba, Unidad d <mark>e Desarrollo Tecnológico, Chile.</mark>	Environmental friendly na <mark>tural resins from polyphenolic extracts: Perspectives and challenges Jorge Santos Ucha, Unidad de Desarrollo Tecnológico, Chile.</mark>
12:30 - 12:55	Changes in Mechanical and <mark>Surface Properties of Medium</mark> Density Fiberboards and Pa <mark>rticleboards with Accelerated</mark> Aging Test. Sahriyanti Saad, Shizuoka <mark>University, Japan.</mark>	Wood-Straw Composites Bonded with Urea Formaldehyde Glue Modified by Ethanol. Emilia-Adela Salca, Transilvania University of Brasov, Romania.
13:00 - 14:00	Lunch	
14:00 - 14:40	SESSION 3: BIOCOMPOSITES II Keynote: Andreja Kutnar, University of Primorska, Slovenia. "Traditional and Innovative Wood-Based Bioproducts".	SESSION 4: BIOPLASTICS Keynote: Danny García Marrero, UCSC, Chile. "Polycarboxylated Flavonoid Oligomers as Functional Additives for Polylactic Acid-, Polystyrene-, and Polyethylene- Based Composites".
14:40 - 15:05	Continuous Wood Surf <mark>ace Densification – Chemical</mark> Treatments to Reduce <mark>the Set-Recovery.</mark> Benedikt Neyses, Luleå <mark>University of Technology, Sweden.</mark>	Lignin-Ester Derivative as Matrix for Composites Elaboration by Press Moulding. Jalel Labidi, University of the Basque Country, Spain.
15:05 - 15:30	Wood preservatives utilising low-value olive production products in Slovenian Istria. Matthew Schwarzkopf, University of Primorska, Slovenia.	Bio-Based Polymer Pellets and Films Derived from Agro- Industrial Residues. Jesús Serrano, Center for Advanced Polymer Research (CIPA), Chile.
15:30 - 15:55	Performance of Medium Density Fibreboards Prepared with Recycled Fibers. Byung-Dae Park, Kyungpook National University, Republic of Korea.	Supercritical Impregnation of Cinnamaldehyde into PLA Films to Develop Antimicrobial Food Packaging Materials. Carolina Villegas Vallejos, University of Santiago de Chile, Chile.
15:55 - 16:40	COFFEE & POSTER SESSION	
16:40 - 17:05	Electrospun Nanofibers Using Whole Microalgal Biomass: A Novel Sustainable Approach in the Field of Biobased Composite Materials. Sivashunmugam Sankaranarayanan, Universidad de La Frontera, Temuco, Chile.	Adhesive Forces Acting Between the Components of Wood-Plastic Composites on Molecular and Macroscopic scale. Bernard Effah, Stellenbosch University, South Africa.
17:05 - 17:30	Novel Biocomposite Based on Chitosan - <i>Sphagnum magellanicum</i> Fibers. Gustavo Cabrera, Centro de Investigación, Desarrollo e Innovación (CIDI), Grupo Hijuelas, Chile.	A novel hydrocolloid wound dressing based on pectin, starch and bioactive extracts of Chilean native plants . Constanza Sabando, Center for Advanced Polymer Research (CIPA), Chile.
20.00		
20:00	PARRILLADA (CHILEAN BARBECUE - Club House Victor	oria)

PARRILLADA (CHILEAN BARBECUE - Club House Victoria) Free for full registration participants. Others attendees \$30.000 / USD 45

TUESDAY, NOVEMBER 15TH

09:30 - 10:10	SESSION 5: FIBER REINFORCED PLASTICS Keynote: John Wolodko, Alberta Innovates, Canada. "An Overview of Materials R&D Activities in Alberta's Bioresource Sector".	SESSION 6: BIOCOMPOSITES RESEARCH IN INDUSTRY Keynote: James Hague, Australian Forest Research Company Pty Ltd, Australia.
10:10 - 10:35	Study of Macro Algae and Mollusc Wastes as Secondary Fillers in Novel Wood-Plastic Bio-composite Particleboard. Claudia Echeverria, University of New South Wales, Australia.	Industrial experience regarding natural and low emision adhesives Esteban Ramírez, Innovation Manager, Research and Development, MASISA S.A.
10:35 - 11:00	Experimental study of the effect of organic powder in a composite matrix of Fiber Reinforced Plastics (FRP). Katherine Sanhueza, Universidad de La Frontera, Chile.	Cellulose microfibrilles: From the laboratory to industrial scale. Dr. Eduardo Izquierdo, Director Research and Development COMASA S.A., Forestal y Papelera Concepción.
11:00 - 12:20	COFFEE & POSTER SESSION	
12:20 - 12:45	Novell Compounding Process for Utilizing TMP-Fibers in Wood-plastic Composites. Oliver Mertens, University Hamburg, Germany.	Adaptation and transference of high standard timber frame construction. Carla Chávez, Polo Madera Program, Universidad de Concepción, Chile.
12:45 - 13:10	Steam Explosion as a Treatment of Hemp Fibers (<i>Cannabis Sativa L.</i>) for Production of Composite Materials. Thibaud Sauvageon, Université de Lorraine, France.	"WOODEN CONNECTION" Embracing territories through architecture and design Susana Herrera, Factoría.
13:10 - 14:30	Lunch	
14:30 - 15:10	SESSION 7: CARBON BASED MATERIALS Keynote: Juan Matos Lale, Unidad de Desarrollo Tecnológico, Chile. "Eco-Friendly Methodology for the Synthesis of Graphene- Based Catalytic Membrane Reactors I".	SESSION 8: MODIFIED WOOD COMPOSITES Keynote: Roger M. Rowell, University of Wisconsin - Madison, USA. "From Academic to Commercial: Story of Acetylation of Wood".
15:10- 15:35	Keynote: Juan Matos Lale, Unidad de Desarrollo Tecnológico, Chile. "Eco-Friendly Methodology for the Synthesis of Graphene- Based Catalytic Membrane Reactors II".	Esterified Lignin as Hydrophobic Agent for Use on Wood Products. René Herrera Díaz, University of the Basque Country, Spain.
15:35 - 16:00	Elucidating the role of ammonia-based salts on the preparation of cellulose-derived carbon aerogels Luis E. Arteaga, Unidad de Desarrollo Tecnológico, Chile.	Surfactant Properties of Alkenyl Succinates Derived of Lignins. Nacarid Delgado, Unidad de Desarrollo Tecnológico, Chile.
16:00 - 16:25	Coffee	
16:25 - 16:50	Synthesis of Visible-Light Response TiO ₂ and its Application to Carbonized Board. Sung-Phil Mun, Chonbuk National University, South Korea.	Microencapsulation of Polyphenols Extracted from <i>Pinus</i> radiata bark. Tomás Kappes R., Universidad de Concepción, Chile.
16:50 - 17:20	POSTER AWARDS AND CLOSING CEREMONY	

POSTER SESSION

ADHESIVES AND BONDING

AB01

SECOND GENERATION AMINO RESINS JOÃO FERRA EURORESINAS - INDÚSTRIAS QUÍMICAS SA - PORTUGAL

AB02

ENGINEERED WOOD PRODUCTS MADE WITH 100% BIO-BASED ADHESIVES: NEW APPROACHES TO DESIGNING ADHESIVES FOR WOOD PANEL MANUFACTURE WARREN GRIGSBY SCION - NEW ZEALAND

BIO-RESOURCES

BR01

INFLUENCE OF TREE HEIGHT IN THE CHEMICAL COMPOSITION OF THE LIPOPHILIC EXTRACTS FROM THE Eucalyptus Nitens BARK NICOLÁS GONZÁLEZ UNIVERSIDAD DE CONCEPCIÓN - CHILE

BR02

FILMS BASED ON FUNGAL BIOMASS DERIVED CHITOSAN GUSTAVO CABRERA CENTRO DE INVESTIGACIÓN, DESARROLLO E INNOVACIÓN (CIDI), GRUPO HIJUELAS - CHILE

BR03

ANTIMICROBIAL ACTIVITY OF MODIFIED/UNMODIFIED POLYFLAVONOIDS AND LIGNIN FROM PINUS RADIATA OBTAINED UNDER PILOT-PLANT SCALE DANILO A. ESCOBAR UNIDAD DE DESARROLLO TECNOLÓGICO - CHILE

BR04

GROWING UP IN DIFFERENT ALTITUDE: CHANGES IN THE GROSS CALORIFIC VALUE AND ELEMENTAL COMPOSITION OF Abies religiosa WOOD RICARDO MUSULE INSTITUTO DE BIOTECNOLOGÍA Y ECOLOGÍA APLICADA, UNIVERSIDAD VERACRUZANA - MEXICO

BR05

ESTIMATION OF WASTE MEDIUM DENSITY FIBREBOARD GENERATION FROM DIFFERENT SOURCES FOR ITS RECYCLING IN KOREA

JEONGKWAN ROH KYUNGNAM NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY -REPUBLIC OF KOREA

BR06

PRELIMINARY STUDY OF FRACTIONATION AND PURIFICATION OF STILBENOIDS FROM EXTRACT OF Vitis vinifera (PINOT NOIR) CRAPE CANE BY ADSORPTION ON MACROPOROUS RESINS (XAD-7) SEBASTIAN RIQUELME UNIDAD DE DESARROLLO TECNOLÓGICO - CHILE

BR07

CARACTERISATION OF NETTLE FIBERS PRODUCED BY STEAM EXPLOSION PAOLA NAVARRETE LERMAB - UNIVERSITÉ DE LORRAINE - FRANCE

BR08

PRODUCTION OF FIBERS FROM METAL-RICH PHYTOREMEDIATION HEMP THIBAUD SAUVAGEON UNIVERSITÉ DE LORRAINE - FRANCE

BR09

BACTERIAL POLYHYDROXYALKANOATE FOR ELECTROSPUN FIBER PRODUCTION FRANCISCA ACEVEDO UNIVERSIDAD DE LA FRONTERA - CHILE

BIOPLASTICS AND BIOCOMPOSITES

BB01

COMPOSITE PANELS MADE FROM TETRA-PAK AND POLYETHYLENE WASTE MATERIALS EMILIA-ADELA SALCA TRANSILVANIA UNIVERSITY OF BRASOV - ROMANIA

BB02

DYNAMICS OF SMALL MOLECULES IN METAL-ORGANIC FRAMEWORKS (MOFs) STUDIED BY²H AND ¹³C SOLID-STATE NMR HAIYAN MAO NANJING FORESTRY UNIVERSITY - CHINA

BB03

EFFECT OF DIFFERENT POLYMER BLENDING ON THE MECHANICAL PROPERTIES OF POLYPROPYLENE BASED WOOD PLASTIC COMPOSITE HIKARU KOBORI SHIZUOKA UNIVERSITY - JAPAN

BB04

SELF-BONDED COMPOSITE FILMS BASED ON CELLULOSE NANOFIBERS AND POLYLACTIC ACID MICROFIBRILS. EDUARDO ROBLES UNIVERSITY OF THE BASQUE COUNTRY UPV/EHU, ESPAÑA.

BB05

GREEN COMPOSITES OF RESIDUAL MICROALGAE BIOMASS: ADVANCES IN MICROALGAE BIOMASS BIOREFINERY FOR BIODIESEL PRODUCTION SIMONET TORRES CEDENNA, UNIVERSIDAD DE SANTIAGO DE CHILE - CHILE

BB06

THERMAL AND MECHANICAL CHARACTERIZATION OF COMPOSITES BASED ON A POLYMERIC MATRIX OF POLYLACTIC ACID, POLYETYLENE GLYCOL AND TALC IVÁN RESTREPO UNIDAD DE DESARROLLO TECNOLÓGICO - CHILE

BB07

EFFECT OF ACTIVATIOAN AND MAGNETIZATION ON THE ADSORPTIVE REMOVAL OF METHYLENE BLUE ONTO OAT HULL BIOCHAR MARÍA EUGENIA GONZÁLEZ

UNIVERSIDAD CATÓLICA DE TEMUCO - CHILE

BB08

BIOCOMPOSITES WITH FORESTAL RESIDUES OF TZALAM (Lysiloma latisiliquum) AS REINFORCEMENT CANCHÉ-ESCAMILLA G CENTRO DE INVESTIGACIÓN CIENTÍFICA DE YUCATÁN - MEXICO

BB09

DEVELOP AND CHARACTERIZATION OF BIODEGRADABLE COMPOSITE TO USE IN FOREST INDUSTRY CATALINA CASTILLO SEPÚLVEDA UNIDAD DE DESARROLLO TECNOLÓGICO - CHILE

BB11

CHARACTERIZATION AND APPLICATION OF A NATURAL POLYMER AS A THERMAL INSULATION BIOMATERIA JUAN PABLO CÁRDENAS RAMÍREZ UNIVERSIDAD DE LA FRONTERA - CHILE

BB12

MECHANICAL AND PHYSICAL PROPERTIES OF HEMP FIBER-MAT REINFORCED POLVETHYLENE FILM COMPOSITES HEIKKO KALLAKAS TALLINN UNIVERSITY OF TECHNOLOGY - ESTONIA

NEW ANALYTICAL TECHNIQUES, PROPERTIES AND TESTING

NA01

In-situ MOISTURE CONTENT AND DENSITY MEASUREMENTS IN SURFACE DENSIFIED WOOD USING DUAL X-RAY ABSORPTIOMETRY IN MEDICAL CT-SCANNING JOSÉ COUCEIRO LULEÁ UNIVERSITY OF TECHNOLOGY - SWEDEN

PROCESSING TECHNOLOGIES

PT01

RESISTANCE OF SMOKED GLUED LAMINATED LUMBER TO SUBTERRANEAN TERMITE ATTACKTITLE Y. S. HADI BOGOR AGRICULTURAL UNIVERSITY - INDONESIA

PT02

INFLUENCE OF VENEER DENSIFICATION UPON THE PROCESS OF PLYWOOD PRODUCTION EMILIA-ADELA SALCA TRANSILVANIA UNIVERSITY OF BRASOV - ROMANIA

PT03

ANAEROBIC DIGESTION OF CHICKEN MANURE: EFFECT OF SUBSTRATE CONCENTRATION ON THE BIOGAS YIELD CONSTANZA BEATRIZ ARRIAGADA GAJARDO UNIVERSIDAD DE CONCEPCIÓN - CHILE

PT04

A NEW METHOD TO SELECT WOOD SPECIES SUITABLE FOR SURFACE DENSIFICATION BENEDIKT NEYSES LULEA UNIVERSITY OF TECHNOLOGY - SWEDEN

PT05

EFFECT OF SUPERCRITICAL IMPREGNATION PROCESS ON THYMOL RELEASE FROM PLA FILMS FOR FOOD PACKAGING APPLICATIONS ALEJANDRA TORRES UNIVERSITY OF SANTIAGO DE CHILE - CHILE

PT06

ENZYMATIC GRAFTING OF PINE BARK TANNINS, A STRATEGY FOR THE SURFACE MODIFICATION OF LIGNOCELLULOSIC MATERIALS DANIEL MARTÍNEZ GRUPO BIOSUY, DEPARTAMENTO DE INGENIERÍA QUÍMICA, UNIVERSIDAD DE VIGO - SPAIN

SUSTAINABILITY, ECONOMICS, MANAGEMENT AND

SE01

EXERCOECONOMIC ANALYSIS OF HEAT AND POWER PRODUCTION FROM MUNICIPAL SOLID WASTE GASIFICATION YANNAY CASAS LEDÓN UNIVERSIDAD DE CONCEPCIÓN - CHILE