PROGRAM Monday 19th

09:00 - 09:50  Plenary Session: Hans Grosse Werner. Executive Director of the Forest Institute (INFOR).

09:50 - 10:10  Coffe Break

10:10 - 12:00  Key Speaker: Klaus Niemelä. VTT Technical Research Centre of Finland, Finland. Pulping by-products: past, present and future.

Laura Azócar. Universidad de la Frontera, Chile. New microalgae biorefinery concept.

Daniel John Hayes. The University of Limerick, Ireland. DIBANET: Collaboration in biorefinery research between Europe and Latin America.

12:20 - 14:00  Lunch

14:00 - 16:10  Key Speaker: Tobias Stern. Kompetenzzentrum Holz GmbH, Austria. Market orientation in wood biorefinery research.

Gerfried Jungmeier. Institut für Wasser, Energie und Nachhaltigkeit, Austria. Sustainability assessment, classification and international perspectives of bioenergy-driven biorefineries and biomaterials – Activities of IEA Bioenergy Task 42 “Biorefinery”

Paul P. Kołodziejezyk, Biolink Consultancy Inc., Canada. How to take an Idea from a laboratory to market – Contract R&D organizations.

Arne Gröngröft. Deutsches Biomasseforschungszentrum, Germany. Assessment of concepts for wheat grain and straw based biorefineries.

16:10 - 16:30  Coffe Break

16:30 - 18:40  Key Speaker: Lukas Wick. Helmholtz Centre for Environmental Research, Germany. Walking the tightrope of bioavailability: microbial dynamics on vapour-phase chemicals.

Hernán Vera. Universidad de Antofagasta, Chile. Detection of genes involved in fatty acid metabolism of Botryococcus braunii microalg.

19:00 - 22:30  Official dinner.
PROGRAM Tuesday 20th

09:00 - 09:50
Plenary Session: Amar Mohanty. University of Guelph, Canada.
Value-added uses of co-products from biofuel industries: a path forward in sustainable biorefinery.

09:50 - 10:10
Coffee Break

10:10 - 12:00
Key Speaker: Steve Kelly. North Carolina State University, USA.

Jorge Araca. Universidad Católica de Valparaíso, Bioenercel, Chile.
Ethanol production in continuous bioreactor with cell retention.

João Cláudio Thomeo. Universidade Estadual Paulista, Brazil.
CMCase production by the newly isolated Myceliophthora sp. I-130b in packed bed solid state bioreactor.

Alejandro García. Universidad de Chile, Chile.
Effect of using lignocellulose mixtures in bioethanol production of second generation.

12:20 - 14:00
Lunch

14:00 - 16:10
Key Speaker: Rocío Sierra. Universidad de los Andes, Colombia.
Determination of an oxidizing agent dosage method and the effect on the selectivity of a lignin pretreatment process in alkaline medium.

Andrea Silva-Weiss. Universidad de la Frontera, Chile.
Agro biomaterials based on chitosan and starch functionalized with polyphenols from murta (Urgnia molinae turcz) leaf extract.

Cecilia Fuentealba. Universidad de los Andes, Universidad de Concepción, Chile.
Valuation of wheat straw for the production of chemicals for industrial use.

16:10 - 16:30
Coffee Break

16:30 - 18:40
Key Speaker: William J. DeSisto. University of Maine, USA.
Formate-Assisted Pyrolysis (FasP) of woody biomass.

Walter Noack. Eula, Universidad de Concepción, Chile.
Life cycle analysis of co-combustion processes of coal and biomass.

Daniel Sánchez. Universidad de Los Andes, Colombia.
Waste tire rubber gasification using air-steam for partial oxidation and N\textsubscript{2} as carrier gas.

Dania Espinoza. Universidad de Desarrollo Tecnológico, Universidad de Concepción, Chile.
Residual forest biomass torrefaction in Chile.
Plenary Session: Valdeir Arantes. University of British Columbia, Canada.
The mutual interdependency of pretreatment and enzymatic hydrolysis to ensure the effective production of a competitive sugar stream from biomass substrates.

Key Speaker: Germán Buitrón. Universidad Nacional Autónoma de México, Mexico.
Implementing an optimization strategy in real time to improve biological hydrogen production.

Regina Vasconcellos. Universidade Federal de Santa Catarina, Brazil.
Hydrogen production and partial characterization of a bacterial consortium obtained from lagoon sediment.

Fernando González-Fermoso. Instituto de la Grasa de Sevilla (IGS), Spain.
Comparison of several olive oil mill wastewaters as electron donor in a bioelectrical system

Jan Bartacek. Institute of Chemical Technology, Czech Republic.
Improvement of lignocellulose degradability using anaerobic rumen fungi.

Key Speaker: Rodrigo Navía. Universidad de la Frontera, Chile.
Influence of different operational conditions on the pyrolysis of lignocellulosic biomass to produce biochar with adsorbent characteristics.

Niels Müller. Unidad de Desarrollo Tecnológico, Universidad de Concepción, Chile.
Fractionation of flash pyrolysis liquids for chemical applications: an exploratory study.

Tarja Tamminen. Technical Research Centre of Finland, Finland.
Analytical pyrolysis as tool in biorefinery-related research.

Jean Benoit. ISIMA S.A., Chile.
SATIB-HPPB Procedure and Waste Energy Conversion.

POSTER PRESENTATIONS

Camilo Muñoz. Universidad de Antofagasta, Chile.
Selection of marine bacteria with cellulase activity for the pre-treatment of microalgal biomass.

Felipe Almendras. Universidad de Concepción, Chile.
Preliminary evaluation of sewage sludge as raw material for biodiesel production.

Oriana Salazar. Universidad de Chile, Chile.
Steam and organosolv pretreatments for processing hardwood biomass.

Xiúna Busto. CIPA-Chile.
Use of ophiostoma spp. albino fungi, as bio-treatment for d.don radiata pine wood., and its effects on the penetration of PVAc adhesive.

Mónica Gómez. Universidad de Antioquia, Colombia.
Production of fungal cellulases using lignocellulosics as carbon source.

Francisco Vasquez. BioEnercel S.A. Chile.
Evaluation of the characteristics of different lignins to be used in the formulation of adhesive resins for boards.

Juan Fernando Arenas. Universidad de Antioquia, Colombia.
Ethanol production from the rachis cellulosic fraction of palm oil.

Héctor Berrios. Universidad de Antofagasta, Chile.
Enzymatic treatment of the cell wall in Botryococcus braunii.

Carolina Noya. Universidad de la República, Uruguay.
Sulphur free lignin reactivity during early cooking stages.

Claudia Tramón. Universidad de Concepción, Chile.
Use of organosolv lignins as support materials in controlled release fertilizers.
Inés Loaces. Instituto de Investigaciones Biológicas Clemente Estable (IIBCE), Uruguay.

Application of functional metagenomics for bioethanol production from cellulose.

Roberto da Silva. IBILCE - UNESP, Brazil.

Effect of glucose and fructose on β-glucosidases of fungi Thermoascus aurantacus CBMAI756 and Penicillium viridicatum RFC3.

Celián Román Figueroa. Universidad de Chile, Chile.

Carbon footprint and energy efficiency of perennial oils with energy potential, a preliminary approach.

Gairik Sachdeva. Harvard University, USA.

Using in-vivo RNA scaffolds for metabolic substrate channeling towards high value chemicals.

Milla Alves Baffi. Universidade Federal de Uberlândia, Brazil.

Characterization of a β-glucosidase produced by a Brazilian thermophilic fungal strain isolated from cane bagasse.

Roberto Landate L. Pontificia Universidad Católica de Valparaíso, Bioenercel S.A.

Evaluation of the tolerance mechanism of flocculant Saccharomyces cerevisiae to inhibitors derived from lignocellulosic material.

Lorena Soler. Bioenercel, Chile.

Comparison of the adsorption behavior of cellulolytic enzymes on two lignocellulosic materials of different composition.

Heidi Schalchli. Universidad de La Frontera, Chile.

Production of ligninolytic enzymes by a white-rot fungus grown on potato organic wastes.

Roberto Valenzuela. Bioenercel, Chile.

Fermentability of Eucalyptus globulus pretreated by steam explosion by thermotolerant strain of Saccharomyces cerevisiae.

Naiane Sangaletti. Laboratório de Óleos e Gordura-ESALQ/USP.

Energy flow in biodiesel production chain with ethanolic miscella.

Álvaro González. University of La Frontera, Chile.

Influence of different operational conditions on the pyrolysis of lignocellulosic biomass to produce biochar with adsorbent characteristics.

Adesoji Adesina. The University of New South Wales, Australia.


Camila Tapia. Pontificia Universidad Católica de Valparaíso, Chile.

IRSES-ALGAENET: Las microalgas como catalizadores de la conversión de nutrientes residuales en bioenergía.

Laura Azócar Ulloa. Desert Bioenergy S.A., Chile.

Critical flux increase in anaerobic membrane bioreactor through addition of flocculants.

María del Carmen Ruiz Domínguez. Universidad de Cádiz, Spain.

CEPSA-ALGINCO2 Project: Production of Lipids of Energy Value with Microalgae Grown with Industrial CO₂.

Leslie Meier Figuera. Universidad de La Frontera, Chile.

Photosynthetic removal of CO₂ through microalgae, an alternative to increase the calorific value of biogas.

Lorena Álvarez. Pontificia Universidad Católica de Valparaíso, Bioenercel S.A., Chile.

Evaluation of cellulase in the hydrolysis of pretreated wood from Eucalyptus globulus for bioethanol production.
POSTER PRESENTATIONS

Paulina Silva.
Bioenercel, Chile.
Effect of inhibitors derived from lignocellulose material on growth and ethanol production in \textit{Saccharomyces cerevisiae} ATCC 4126.

Juan Carlos Gentina.
Bioenercel, Chile.
Influence of inhibitors from eucalyptus chip pretreatment on the behavior of \textit{Zymomonas mobilis} nrl b-806 strain.

Germán Aroca.
Bioenercel, Chile.
Ethanol production in continuous bioreactor with cell retention.

Robert Landaeta Le-Fort.
Bioenercel, Chile.
Evaluation of the tolerance mechanism of flocculant \textit{Saccharomyces cerevisiae} to inhibitors derived from lignocellulosic material.

Lorena Alvarez.
Bioenercel, Chile.
Comparison of the adsorption behavior of cellulolytic enzymes on two lignocellulosic materials of different composition.

Oriana Salazar.
Universidad de Chile, Chile.
Comparison of different pure and recycled ionic liquids in the eucalyptus pretreatment for the production of biocellulose.

Jan Bartacek.
Institute of Chemical Technology, Czech Republic.
Biogas production from municipal wastewater at low temperature - effluent treatment.

Freddy Valdés.
Universidad de la Frontera, Chile.
Micro-aeration assisted by silicone membrane for H2S removal in anaerobic fixed-structured bed reactor.

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Biorefineries
Ideas for a sustainable world
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