

Expocorma, Autopista Concepción - Coronel Km 18.

## **Announcement**

It is our pleasure to invite you to the Second Latin American Congress on Biorefineries for Materials and Energy to be held May 4-6, 2009 in Concepción, Chile. This meeting is charged to use Latin American renewable resources in a sustainable fashion.

The Congress offers a forum to national and foreign researchers and experts for a debate on scientific and engineering advances in the use of forest biomass as a source of fuels, new materials and chemical products, as well as a stimulating discussion on the challenges and opportunities for regional, national and Latin American cooperation in these endeavors. In parallel, the '4<sup>th</sup> International Colloquium on Eucalyptus Pulp' will be held. These two events complement each

The Congress is being organized by the Unit of Technology Development (UDT) of the University of Concepción and the Technical Association of Pulp and Paper of Chile (ATCP-Chile). The main topics of the congress are:

- Biorefinery progress
- Biochemical transformation
- Biogas as an alternative fuel
- 4. Thermochemical transformation
- 5. Fractionation of lignocellulosics
- Chemical products and biopolymers

Also, two Workshops will be available to create a more in depth discussion about the following topics:

1. Workshop of Biomass Pyrolysis, May 7th, 2009 in Concepción.

> Focused on fast biomass pyrolysis to obtain chemical products and fuels. National and international experts will give a lecture on the current state-of-the-art with feasibility to implement these technologies in Latin America.

2. Workshop of Degradable Plastics, May 8th, 2009 in Santiago.

> Will focus on commercial and normative aspects of the use of degradable plastics, as well as, the feasibility to apply these plastic materials in Chile.

## **Registration and Fees**

	Before 15/Apr/09	After 15/Apr/09
Members ATCP	US\$ 200	US\$ 250
Contributors (speaker or poster)	-	-
Students*	US\$ 80	US\$ 100
Other participants	US\$ 300	US\$ 350

Note: Registration for the Second Latin American Congress on Biorefineries entitles to attend both Biomass Pyrolysis Workshop and Degradable Plastics Workshop without additional charge.

\*The registration cost for students does not include the Official Dinner. For further information, please visit the website of the Congress at http://www.bio-refinerias.cl/

www.bio-refinerias.cl

















Program: II	Latin American Congress on	16:00-16:25	Techno-economic evaluation of cogeneration cycle
Bio-refiner	ies: Materials and Energy		using biomass gasification technologies. (Spanish) <b>O. Farias</b> y A. Concha. University of Concepción,
Sunday May 18:00 - 20:00	3th Cocktail	16:25-16:50	Chile. Cogeneration using residual forest biomass- A
			comparative analysis of cost of production. (Spanish)  C. Bidart, A. Berg. University of Karlsruhe, Germany.
Monday May 08:30-09:30	Registration	16:50-17:00	Coffee Break/ Poster Session
Congress and	d Colloquium Opening Session	Session II:	Fractionation of Lignocellulosics Chairman: María Elena Lienqueo
09:30-09:45	Welcoming Remarks Alex Berg. UDT, Chile.	17:00-17:30	Keynote Presentation:
	Ramiro Peralta. ATCP, Chile. Celso Foelkel. ABTCP, Brazil.	17.00 17.50	Use of ionic liquids in the pre-treatment of lignocellulosic materials for production of second
09:45-10:15	<b>Daniel Contesse</b> . Ex-President of CORMA, Chile.		generation bioethanol. (Spanish) V. Cortinez, R. Pezoa, O. Salazar, A. Garcías, R.
10:15-10:45	The future of pine and eucalyptus pulp multi-product		Carmona, M. E. Lienqueo. University of Chile, Chile.
10.13 10.43	mill biorefinery  Peter Axegard. STFI, Sweden.	17:30-17:55	Lignocellulosic biomass for the production of platform chemicals-economic and ecological
10:45-11:00	Coffee Break/ Poster Session		assessment of a biorefinery concept.  M. Haase, M. Fröhling, J. Schweinle, B. Himmelrech. University of Karlsruhe, Germany.
11:00-11:25	Biorefinery – A production system for the future. A	17:55-18:20	Organosolv cooking as a facile fractionation method
	success story for a medium enterprise. <b>Eckhard Weidner.</b> Fraunhofer UMSICHT, Germany.	17.55 10.20	for annual plants. <b>H. Mikkonen</b> , T. Oksanen, S. Alakurtti and A.
11:25-11:50	Forestry biomass as a feedstock for energy production in Chile: Challenges and opportunities. (Spanish)		Suurnäkki. VTT, Finland.
	Claudio Zaror. University of Concepción, Chile.	Tuesday May 08:30-09:00	/ 5th Registration
11:50-12:15	Biofuels as part of future biorefineries-concepts under European conditions.		- A
	Franziska Mueller-Langer. German Biomass Research Centre, Germany	Session III:	Biogas Chairman: José Antonio Ruiz
12:15-12:40	Logistics for 2nd generation biofuels	09:00-09:30	<b>Keynote Presentation:</b> Gaseous biogenic fuels: The Government's role.
	<b>Frank Schultmann</b> . University of Karlsruhe, Germany.		(Spanish) <b>José Antonio Ruiz</b> , National Energy Commission,
12:45-14:15	Lunch		Chile.
Session I:	Thermocatalytic Transformation	09:30-09:55	Kinetic analysis of methane production from beer handcrafted industry organic wastes. (Spanish)
	Chairman: Andreas Hornung		J.E. Gontupil, <b>C.A. Úlloa</b> , G.G. Merino. Úniversity of Concepción, Chile.
14:15-14:45	<b>Keynote Presentation:</b> High integrative, CO <sub>2</sub> negative, high efficient power	09:55-10:20	Biomethane and biohydrogen-production and
	generation from ash rich biomass coupled with production of algae based bio oils as well as black		utilization. <b>S. Rasi</b> , H. Tähti, O. Pakarine, J. Rintala. University
	earth avoiding affluents at Hainhaus/Odenwald using the BtVB process.	10.20 10.45	of Jyväskylä, Finland.
	<b>A. Hornung,</b> Å. Apfelbacher, S. Sagi. Aston University, United Kingdom.	10:20-10:45	Modelling and simulation of biogas production from salmon industry wastewater: effects of the hydraulic residence time and temperature. (Spanish)
14:45-15:10	Pirólisis of residual biomass: Biochar conversion yield and synthesis gas quality. (Spanish)		César Huiliñir. University of Concepción, Chile.
	M. Poppenwimmer, H. Raupenstrauch, R. Muñoz, R. Navia. University of La Frontera, Chile.	10:45-11:00	Coffee Break/ Poster Session
15:10-15:35	Thermocatalytic transformation of compounds	11:00-11:30	Chairman: Stephan Kabasci <b>Keynote Presentation:</b>
	present in bio-oil. (Spanish) P. Ruiz, C. Aguilar, <b>N. Escalona</b> , R. García y G. Oviedo. University of Concepción, Chile.		Biogas technology for the energetic utilization of biomass, by-products and waste.  Stephan Kabasci. Fraunhofer UMSICHT, Germany.
15:35-16:00	Development of a molecular reactor for the	11:30-11:55	Upgrading of biogas to biomethane – basics, tecnical
	generation of gas from biomass. Results. (Spanish)  M. Gutiérrez, S. Gutiérrez, M. Rodríguez. University of Chile, Chile.		solutions and examples  Christoph Zimmermann, UTEC GmbH, Germany.

11:55-12:20	Biogas: Design, Technologies and profitability of	Wednesday May 6th	
11.55 12.20	cogeneration projects. (Spanish)	wednesday may our	
	Matías Errázuriz. UTEC-Wetland, Chile.		
12:20-12:45	Sustainable use of biogas as a fuel in Chile. (Spanish)	Session V:	Chemical Products, Biopolymers
12.20-12.43	M. Flores, R. Jiménez, A. Berg, C. Bidart. University		Chairman: Carmen Michels
	of Concepción, Chile.	09:00-09:30	Keynote Presentation:
12.45 14.15	Longit	07.00 07.50	Bioplastics-products from renewable resources
12:45-14:15	Lunch		Carmen Michels. Fraunhofer UMSICHT, Germany.
Session IV:	<b>Biochemical Transformation</b>	09:30-09:55	Ria Plastics next generation notioner materials for
	Chairman: Jaime Baeza	09.30-09.33	BioPlastics-next generation polymer materials for reducing carbon and environmental footprint.
14:15-14:45	Keynote Presentation:	Par	Dan Gravier. Michigan State University, United
14.15-14.45	Bioenercel Consortium		States.
	Jaime Baeza. University of Concepción, Chile.	09:55-10:20	Effect of citrate plasticizers on the thermal and
14.45 15.10	Identification of callulate and more for bigoth and	09.55-10.20	rheological properties of polylactic acid. (Spanish)
14:45-15:10	Identification of cellulose enzymes for bioethanol production from lignocellulosic biomass.	4	J. D. Sierra, M. Noriega, S. Ospina, E. Cardona.
	A. Guerrero, M. E. Lienqueo, <b>O. Salazar</b> . University	RA .	ICIPC, Colombia.
	of Chile, Chile.	10:20-10:45	Plastic materials for a sustainable development
15:10-15:35	Acid hydrolysis of radiata pine to produce ethanol	3000 Table 1000 Table	(Spanish)
13.10 13.33	by simultaneous saccharification and fermentation.		Patricia Eisenberg. INTI, Argentina.
	(Spanish)	10:45-11:10	Green Polyethylene from Braskem, a vision beyond
	H. Franco, R. Mendoça, J. Freer, J. Baeza, N. Durán. University of Concepción, Chile.		the renewable raw material.
	omversity of concepcion, crime.		Eder Felipetto. Braskem S.A, Brazil.
15:35-16:00	A chromatography approach for the biological pre-	11:10-11:25	Coffee Break/ Poster Session
	treatment of lignocellulose to obtain bioethanol. (Spanish)	11.10 11.23	Conce Dicard i oster Dession
	A. García, S. Hyvärinen, R. Carmona, M.E.	11:25-11:55	Chairman: Dietrich Meier
	Lienqueo, O. Salazar. University of Chile, Chile.		Keynote Presentation:
16:00-16:15	Coffee Break/ Poster Session		Processes and products in wood based biorefineries.  Dietrich Meier. Johann Heinrich von Thünen-
10.00-10.13	Collee Dieak/ Fostel Session		Institut, Germany.
	Chairman: Joachim Venus		
16:15-16:45	V	11:55-12:20	Biorefinery opportunities for the pulp industry. <b>Herbert Sixta.</b> Helsinki University of Technology,
16:13-16:43	<b>Keynote Presentation:</b> Pilot plant for the bioconversion of sugar containing		Finland.
	feedstocks.		
	Joachim Venus. Leibniz-Institute for Agricultural	12:20-12:45	Industrial applications of vegetable tannins.
	Engineering, Germany.		(Spanish) <b>Eduardo Cassel.</b> Pontifical Catholic University of
16:45-17:10	Estimation of fermentation growth rate based on		Rio Grande do Sul, Brazil.
	measurable parameter.	12:45-13:10	Materials from forest biomass: an opportunity for
	<b>L. AbdulKareem</b> , A. Al-Jamall. University of Nottingham, United Kingdom.	12.45-15.10	Chile. (Spanish)
			<b>S. Rodríguez</b> , C. Fuentealba, J. Carrasco, J. Bravo.
17:10-17:35	Glycerol-based polyesters for the removal of sodium		A. Maldonado, L. Olave, J. Castaño, L. Radovic. University of Concepción, Chile.
	from biodiesel. (Spanish) <b>C. Toro</b> , P. Hidalgo, R. Navia, R. Betancourt.		offiversity of Concepcion, Crine.
	University of La Frontera, Chile.	13:30-18:00	Field Trip
17,25 10,00	Tachnological and logistic bassies and		
17:35-18:00	Technological and logistic barriers and opportunities of the sustainable use of biomass		
	from native forests in Chile. (Spanish)		
	Nora Szarka. University of Concepción, Chile.		
20:00	Official Dinner		
20.00	Official Diffile		