

9th International Conference on Lithium, Industrial Minerals and Energy (IWLIME 2022) December 12-14, Santiago, Chile

Day 1			
Welcome	8:30 – 9:00	Registration	
	9:00 – 9:15	Governmental authorities	
	9:15 – 9:30	CELiMIN-UA-USACH authorities	
Overview of lithium in Chile	9:30 – 9:45	Global vision of the lithium industry in Chile	Carlos Díaz, Vicepresidente Ejecutivo Negocio Litio SQM, Chile
	9:45-10:00	Sustainable lithium in Chile	Ignacio Mehech, Country Manager de Albemarle Chile
Advanced materials in thermal energy storage systems and Li Batteries			
Chairman: Dr. Mario Grágeda			
Morning Oral sessions	10:00 – 10:30	Towards to circular economy: waste materials of lithium extraction for thermal energy storage application	Dra. Svetlana Ushak, UA-CELiMIN, Chile
	10:30 – 11:00	Coffee Break	
	11:00 – 11:30	Exergy analysis of thermal storage using phase change materials in CSP systems: study case, Cerro Dominador project	Dr. Marcos Lujan, UCB, Bolivia
	11:30 – 11:50	A novel approach of Janus nanoparticles for the enhancement of thermal energy storage materials	Dr. Yanio Milian, UA- CELiMIN, Chile
	11:50 – 12:10	Advanced 2D-materials for energy storage in flexible lithium batteries	Dr. Rodrigo Espinoza, UCHILE, Chile
	12:10 – 12:30	New approach in lithium battery from INIFTA	Dra. Mariela Ortiz, INIFTA, Argentina
	12:30 – 12:50	Comparative Life Cycle Analysis of three battery-grade lithium hydroxide monohydrate production processes	Lucia Viton, CELiMIN- UA
13:00 – 14:00 Lunch Break and Tea Time			
Afternoon Oral sessions	Chairman: Dr. Marcos Lujan		
	14:00 – 14:20	New materials for the design of All-solid-state lithium batteries	Dr. Domingo Ruiz, USACH, Chile
	14:20 – 14:40	Molecular self-assembled monolayers onto cathodic materials for Lithium-Ion Batteries	Dr. Marcos Flores, UCHILE, Chile
	14:40 – 15:00	Igneous electrolysis for metallic Li production: opportunities for local R&D	Dra. Eugenia Araneda, UDEc, Chile
	15:00 – 15:20	Coffee Break	
	15:20 – 15:40	Development of the Internet of Batteries, IoT connected lithium batteries for completing full-performance scenarios	Dr. Christian Velarde, CELiMIN- UBILOGIX- WINAYTEC, Bolivia- México
	15:40-16:00	Technologies to Enable Ultra-Fast Charging of Electric Vehicles	Dr. Matías Díaz, USACH, Chile

9th International Conference on Lithium, Industrial Minerals and Energy (IWLIME 2022) December 12-14, Santiago, Chile

Day 2			
Morning Oral sessions	Sustainable lithium extraction processes and NCRE		
	Chairman: Dr. Svetlana Ushak		
	9:00 – 9:30	Extraction of lithium from spodumene by sulphation with ferrous sulphate	Dr. Igor Wilkomirski, UDEC, Chile
	9:30 – 9:50	Low-cost exploration in Salar de Llamara, in the USACH Mining Property area	Dr. Alonso Arellano, USACH, Chile
	9:50 – 10:10	Lithium sulphate production SQM	Patricio Avendaño, SQM, Chile
	10:10 - 10:30	Development of a water-recovery process to treat hypersaline Li-rich brines	Dr. Humberto Estay, AMTC-UCHILE, Chile
	10:30 – 11:00	Coffee Break	
	Chairman: Dr. Christian Velarde		
	11:00 - 11:30	Application of Adsorption-Membrane Filtration Hybrid Method for Lithium Uptake from Geothermal Water and Its Reverse Osmosis Concentrate	Dra Nalan Kabay, Ege University, Turkey
	11:30 - 11:50	Sustainable lithium precursors for cathode materials used in LIBs	Dr. Mario Grágeda, UA-CELiMIN, Chile
	11:50 - 12:10	SQM: Salar future project	Dr. Gabriel Meruane, SQM, Chile
	12:10 -12:30	Nanotechnology and lithium: a disruptive route towards a sustainable and efficient industry	Dra. Carolina Parra, UFSTM, Chile
	12:30 - 12:50	Analogue ecosystems to Primitive Earth and reservoir of extremophiles microorganisms	Dra. Carolina Cubillos, Université Paris-Saclay, France
		13:00 - 14:00	Lunch Break and Tea Time
Afternoon Oral sessions	Chairman: Dr. Domingo Ruiz		
	14:00 - 14:20	Solar Production of Lithium Hydroxide by Electromembrane Processes from LiCl Brine	Dr. Alonso Gonzalez, CELIMIN-UA, Chile
	14:20 - 14:40	Phenomenological modeling Membrane Distillation-Crystallization process for water recovery and concentration of Li-rich brines	Simón Díaz, AMTC-UCHILE, Chile
	14:40 - 15:00	Recycling of lithium batteries: the sustainability opportunity for Chile	Dra. María Luisa Valenzuela, U Autónoma, Chile
	15:00 - 15:20	Coffee Break	
	15:20 - 15:40	Shared Value in lithium production	Javier Silva Muller, SQM
	15:40 - 16:00	Optimization of power losses in lithium ion battery charged	Dr.c, Victor Pizarro, Universidad, UNACH-UA, Chile
	16:00 - 16:20	Green Solvothermal Synthesis of LFP Nanoplates for Enhanced LIBs	Dr.c, Patricio Cofré, CELiMIN-UA, Chile

9th International Conference on Lithium, Industrial Minerals and Energy (IWLIME 2022) December 12-14, Santiago, Chile

Day 3			
Morning Oral sessions	Sustainability, environment, social issues in the salt flats		
	Chairman: Dr. Jaime Antezana		
	9:00 – 9:30	Critical Minerals and the Lithium Triangle Project – a joint effort by Argentina, Bolivia and Chile	Jolanta Polk, Bernardo Fernandez, Alfredo Fierro, Embajada UK
	9:30 – 9:50	Lithium and Salt flats: current affairs and prospects	Dr. Gonzalo Gutiérrez, Ministerio de Minería, Chile
	9:50– 10:10	Female participation and gender equality at SQM	Bárbara Blumel González, SQM, Chile
	10:10-10:30	GAIA hypothesis on altiplano lagoons explanations	Dra. Matilde María López Muñoz, UCHILE, Chile
	10:30 – 11:00	Coffee Break	
	Chairman: Dr. Alonso González		
	11:00 – 11:20	Communities in the Salar de Atacama	Manuel Zamora, Albemarle, Chile
	11:20 – 11:40	Lithium market and prospects/future projections	Felipe Miranda Morales, SQM, Chile
	11:40 – 12:00	GeoLith’s Li-Capt technology: zero emission lithium extraction	Pedro Ruiz, Geolith, France
	12:00 – 12:20	Status and regulatory development of energy storage in Chile	Dr. Marcelo Cortés, UA, Chile
	12:20 – 12:40	Soft-sensor prototype applied to lithium and nitrate brines	Dr. Jesús Casas, UFSTM, Chile
	12:40 – 13:00	Lithium reserves and production in LA. An unsubstantiated hypothesis of competitive advantage to integrate chain value to develop a local battery industry in Latin America	Jaime Alee, ESK Consulting, Chile
	13:00 - 14:00	Lunch Break and Tea Time	
Afternoon Poster sessions	14:00 - 15:00	Poster exhibition	
	15:00 - 15:30	Posters award and cocktail	
	Closure		