

<b>Day 1 (Monday, November 9<sup>th</sup>)</b>			
	<b>8:30-9:00</b>	<b>Registration</b>	
<b>Welcome Remarks</b>	<b>Opening Remarks</b>		
	8:50-9:00	Organizing committee IWLIME 2020	
<b>First day: Energy storage materials</b>			
<b>Plenary Session</b>	<b>Chairman Dr. Saul Cabrera</b>		
	9:00-9:30	Life Cycle Analysis of Photovoltaics with Lithium-ion Battery Storage	Prof. Vasilys Fthenakis Columbia University- USA
	9:30-10:00	LCA: a tool for eco-friendly and sustainable design of buildings	Prof. Luisa F. Cabeza Universidad de Lleida, Spain
<b>Oral Session</b>	10:00-10:15	Impact of PCM on LCA of lightweight buildings in Northern part of Chile	Prof. Svetlana Ushak CELiMIN, Universidad de Antofagasta, Chile
	10:15-10:30	Systematic studies on the substitution of Ge <sup>4+</sup> by its homologue Sn <sup>4+</sup> in Li <sub>1.5</sub> Al <sub>0.5</sub> Ge <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> solid electrolyte	MSc. Misael Ali Mita Yacimientos de Litio Boliviano
	10:30-10:45	Manufacturing and Assembly of the next generation LIBs that can heal themselves	Dr Maitane Berecibar Vrije Universiteit Brussel, Belgium
	10:45-11:15	Li-ion battery safety and university tech commercialization strategies	PhD. Said Al-Hallaj CEO AllCell Technology -USA
<b>Lunch</b>			
<b>Oral Sessions</b>	<b>Chairman: Dr. Arnaldo Visintin</b>		
	14:00-14:15	Li batteries In Silico: the role of interfaces	PhD Guillermina Luque Universidad de Córdoba, Argentina
	14:15-14:30	Theoretical assessment of thermal energy storage materials for active latent heat storage systems	Dra. Andrea Gutierrez German Aerospace Center – DLR - Germany
	14:30-14:45	Prospects for lithium industry in the development of phase change materials	PhD. Yanio Milian CELiMIN - Universidad de Antofagasta, Chile
	14:45-15:00	Active materials from agro-industrial waste for its application in lithium batteries electrodes	PhD Rita Humana Universidad de Catamarca, Argentina
<b>Plenary Session</b>	15:00-15:30	Innovative, energy efficient and low-cost microencapsulation of phase change materials	Prof. Mohammed Farid University of Auckland, New Zealand
<b>Round table session</b>	<b>Moderator: / PhD. Marcos Luján (UCB) and Patricio Jarpa (Nanotec)</b>		
	15:30-16:00	<b>Discussion panel:</b> Impact of the Pandemic and the Future of Lithium in Latin America PhD. Saul Cabrera (UMSA) PhD. Mario Grágeda (CELiMIN UA) PhD. Arnaldo Visintin (INIFTA)	

<b>Day 2 (Tuesday, November 10<sup>th</sup>)</b>			
<b>Second day: Energy storage: Lithium batteries and Hydrogen</b>			
<b>Plenary Session</b>	<b>Chairman PhD. Eng. Mario Grágeda</b>		
	9:00-9:30	From LCO, NCA to NMC-811: Structure, Dynamics and Degradation	Prof. Clare Grey Cambridge University, UK
	9:30-10:00	The Cu-Li-Mg system for hydrogen storage	PhD. María Helena Braga University of Porto, Portugal University of Texas, USA
<b>Oral Session</b>	10:00-10:15	Analysis of cycling ageing of LiMn <sub>2</sub> O <sub>4</sub> spinel doped with Mg by electrochemical voltage spectroscopy	PhD. Aleksei Llusco CELiMIN - Universidad de Antofagasta, Chile
	10:15-10:30	Electrochemical performance of commercial state-of-the-art 5Ah 21700 Lithium-ion cells	PhD. Yana Galazutdinova AllCell Technology -USA
	10:30-10:45	Efficiency evaluation under various parameters in an integrated solar photovoltaic energy system with LFP cell storage for high-altitude regions	PhD. Christian Velarde (Bolivia)
	10:45-11:05	An overview of next-generation battery technology and new applications	Patricio Jarpa Gerente General Nanotec S.A (Chile)
<b>Lunch</b>			
	<b>Chairman: Dr. Guillermina Luque</b>		
<b>Plenary Session</b>	14:00-14:30	Lithium batteries: from active materials to the cell in Argentina	PhD. Arnaldo Visintin INIFTA, Universidad de La Plata, Argentina
<b>Oral Sessions</b>	14:30-14:45	Application of Exergy Analysis to improve the efficiency of CSP Systems with Thermal Energy Storage	PhD. Marcos Lujan Universidad Católica Boliviana
	14:45-15:00	Hybrid materials for lithium ion batteries	Cesario Ajpi Condori/ PhD. Saúl Cabrera UMSA, Bolivia
	15:00-15:25	From invention to industry: Ultrafast charging battery technologies	PhD. Sai Shivareddy CEO, CB2tech LTD, UK
<b>Round table session</b>	<b>Moderator: PhD. Eng. Mario Grágeda/ PhD. Lindley Maxwell</b>		
	15:30-16:00	<b>Discussion panel: Energy transition: LIBs vs Hydrogen</b>  PhD. Gabriel Correa (UNCA- Argentina) PhD. Patricio Valdivia (UTFSM- Chile) PhD. Christian Velarde (Bolivia)	

Day 3 (Wednesday, November 11)		
Third day: Processes and Sustainability		
Plenary Session	Chairman: Ph.D. Marcos Luján	
	9:00-9:30	Lithium and Boron Recovery from Geothermal Water Using Hybrid Process Combining Adsorption and Electrodialysis
	9:30-10:00	An overview of lithium Batteries innovations in European program Battery2030 plus
Oral Session	10:00-10:15	Lithium carbonate purification to use in cathodic materials synthesis
	10:15-10:30	Lithium Hydroxide Production by Bipolar Membranes Electrodialysis at High Electrolytes Concentrations: Current Scope and Challenges
	10:30-10:45	Generation of hydrogen as a co-product of the generation of LiOH from membrane electrolysis
	10:45-11:05	Taking advantage of current technologies for process optimization in the lithium extractive industry
Lunch		
Oral Sessions	Chairman: Ph.D. Andrea Gutiérrez	
	14:00-14:30	Lithium brines and their future in the Li triangle countries: understanding the challenges for upscaling production
	14:30-14:45	Lithium technologies: developments and capabilities at YTEC
	14:45-15:00	Assessment of the uncertainty in the lithium supply chain
	15:00-15:15	An approach using engineered reactors system applying residual salt from mining activity in TCS
	15:15-15:30	Lithium, its geopolitics and the low-carbon energy transition in the South American Triangle
Closing Talk	15:30-16:00	Closing talk: