

Fondo Europeo de Desarrollo Regional Fundo Europeu de Desenvolvimento Regional







PROGRAMME | October 10th, 2019

	8h00 - 9h00	Registration	
		OPENING SESSION	
9h00		Lars Montelius, Director-General INL	
	9h10	Ricardo Rio, Mayor of Braga	
	09h20	Welcome Message	
		:: The European Battery Landscape	
		Charles Amos, Research Group of Atomic Structure-Composition of Materials (ASCM), INL	
		:: Competence Centers in Batteries at INL and IST	
		Lifeng Liu, Group Leader, Nano Materials for Energy storage and conversion, INL	
		Alberto Adán Más, Researcher, Department of Chemical Engineering, IST	
	09h50	Video Interview with the lithium-ion battery pioneer John Goodenough, Professor, Department of Mechanical Engineering, University of Texas at Austin	

MORNING SESSION

	MOMMING SESSION
	INVITED TALK
10h00	:: European Battery Alliance - Building the European Battery Industry
	Thore Sekkenes, Program director for European Battery Alliance, InnoEnergy Scandinavia AB
10h45	Poster Session Presentations - Break
	CONTRIBUTED TALKS
11h15	:: High Power Blue Lasers, a Disruptive Technology for Battery Welding :: Victor Blanco, Laser 2000 SAS / NUBURU
11h35	:: High-Capacitance Negative Electrode based on Cobalt Phosphide Nanocrystals :: Nan Zhang, INL
	INVITED TALK
11h55	:: European Partnership on Advanced Materials for Batteries Policy / Science
	Joaquín Villar, Head of Department, Internationalisation and Forsight, Andalusian Energy Agency
	ROUNDTABLE DISCUSSION
	Funding & Collaboration Opportunities
12h20	Luís Maia, Horizon 2020 National Delegate and Contact Point, GPPQ - Portuguese Framework Promotion Office Joaquín Villar, Head of Department, Internationalisation and Forsight, Andalusian Energy Agency

Moderator: Paula Galvão, Chief Business and Strategic Relations, INL

BatteryPlat





Fondo Europeo de Desarrollo Regional Fundo Europeu de Desenvolvimento Regiona







PROGRAMME | October 10th, 2019 13h20 **Networking Lunch** Networking Opportunity **AFTERNOON SESSION INVITED TALK** 14h50 :: Fast Charging of Lithium-Ion Batteries Science Daniel Abraham, Senior Materials Scientist, Argonne National Laboratory **CONTRIBUTED TALKS** 15h35 :: Free-Standing N-Graphene as Conductive Matrix For Ni(OH)2 Based Supercapacitive Electrodes :: Kush Upadhyay, IST :: Compositional Mapping of LiNixCoyMnzO2 Cathode Materials :: Cristiana Alves, INL 15h55 16h15 Coffee break **INVITED TALK** :: Techology Transfer within the EU Batteries Ecosystem: our 16h45 experience Innovation / Industry Oscar Miguel, Director, CIDETEC Energy Storage **INVITED TALK** :: Structural Characterization of Li-ion Battery Materials Using Advanced 17h30 Electron Microscopy Techniques Science Karalee Jarvis, Research Engineering/Scientist, University of Texas at Austin **INL Tour / Happy Networking Hour** 18h15 PROGRAMME | October 11th, 2019 8h30 - 9h00 Registration MORNING SESSION **INVITED TALK** 9h00 :: Batteries: Industrial Initiatives and Opportunities in Iberia **Policy** Mikel Lasa, CEO, InnoEnergy Iberia **CONTRIBUTED TALKS** :: How relevant is for Asset Operators to Access Cell Data in Large Scale Stationary Li-ion Battery Projects: the case of 2nd life 9h45 Batteries :: Mario Simões, EDP Inovação 10h05 Poster Session Presentations - Break









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	INVITED TALK				
10h55	:: From Thermal Harvesting to Electrical Storage in Li/Na Devices				
	Maria Helena Braga, Associate Professor, Department of Engineering Physics, University of Porto				
	CONTRIBUTED TALKS				
11h40	:: Nanoconfined Ionic Liquids and Hybrid Ionogels: Tuning the Electrolyte-Electrode Interface :: Luis Miguel Varela, University of Santiago de Compostela				
12h00	:: Ionic Liquids: Next Generation Electrolytes :: Oscar Cabeza, University of Coruña				
	INVITED TALK				
12h20	:: Printed and Solid-state Batteries: Materials, Challenges and Opportunities				
	Senentxu Lanceros-Mendez, Scientific Director and Professor, Basque Center for Materials, Applications, and Nanostructures Technology/Innovation				
13h05	Networking Lunch				
	AFTERNOON SESSION				
	INVITED TALK				
14h35	:: Batteries Interfaces for Renewable Energies and Electric Vehicles				
	Enrique Romero-Cadaval, Professor, Power Electric and Electronic Systems R&D Group, University of Extremadura				
	INVITED TALK				
15h20	:: Redox Flow Batteries: Present and Future Perspectives				
	Adélio Mendes, Professor, Department of Chemical Engineering, University of Porto				
16h05	Coffee break				
	ROUNDTABLE DISCUSSION				
	:: Scaling Battery Innovations: now and tomorrow Opportunities and challenges for the lithium ion battery value chain				
16h30	António Silva, Geologist, Lusorecursos				
	Jorge Magalhães, Senior VP, Vestas				
	Mario Simões, Technology Expert in Energy Storage, EDP Innovation Mikel Lasa, CEO, InnoEnergy Iberia				
	Moderator: Fátima Montemor, IST				
17h30	AWARDS SESSION				
	Lars Montelius, Director-General INL				
17h45	CLOSING REMARKS Fátima Montemor, Professor, Department of Chemical Engineering, Vice-President of IST				











POSTER LIST

	AUTHOR	POSTER TITLE
01	Alberto Adan Mas	From bench-scale to prototype: case study on a hybrid energy storage device
02	Alvaro Caballero	Advances in sustainability for Lithium-Sulfur battery technology: Biomass-derived carbon electrodes
03	Alvaro Caballero	Advances in safety for Lithium-Sulfur battery technology: alternative anodes and electrolytes
04	Alvaro Caballero	Advances in performance for Lithium-Sulfur battery technology: Graphene-based electrodes
05	Ana Mafalda Macatrao	Effect of Magnetic Field on the Electrodeposition of Copper-Iron Nanofoams
06	Bruno Xavier	Synthesis of nanostructured transition metal phosphides via a one-step vapor-solid reaction method for electrochemical energy storage
07	Carlos Miguel Costa	Metal—organic framework reinforced poly(vinylidene fluoride) membranes for lithium-ion battery separators
08	Eduardo Lopez	Testing and evaluation of battery technologies for commercial and residential applications in AGERAR project
09	Kamil Jasso	Application of carrageenans in lithium-sulfur batteries
10	Mario Andre Madeira de Almeida	Manganese Sulfide Crystallites - Development and Supercapacitor application
11	Rajesh Thomas	Improved lithium storage performance of Bi2Se3 electrode with effective surface modifi- cation via conductive coating
12	Zhixin Tai	High-shear exfoliation technology to produce ultrathin 2D nanosheets for high capacity and long-life alkali-ion batteries
13	Ziyu Lu	Tips-covered anode achieving uniform lithium deposition for stable lithium metal batteries
14	Ziyu Lu	Plasma assisted sponge-like carbon coating towards stable lithium anodez