



Programme

Sunday, 2nd July 2017

Tutorials

15.00 - 15.30	Registration	
	Battery Sessions	Supercaps Sessions
15.30 - 16.00	Elena Gonzalo (CIC energigUNE)	Eider Goikolea (CIC energigUNE)
16.00 - 16.30	Juan Luis Gómez (CIC energigUNE)	Roman Mysyk (CIC energigUNE)
16.30 - 17.00	Patrick Howlett (Deakin University)	Mathieu Salanne (Université Pierre et Marie Curie)
17.00 - 17.15	Coffee	
17.15 - 17.45	José Luis Tirado (Universidad Córdoba)	Yurii Maletin (Yunasko)
17.45 - 18.15	Igor Cantero (Cegasa Portable Energy)	John R. Miller (JME, Inc. & Case Western Reserve University)

Monday, 3rd July 2017

8.30 - 9.00	Registration	
9.00 - 9.15	Welcome act	
9.15 - 11.10	Session 1: Na-ion I	Chairman: Flaviano García
	Invited Speaker: Christian Masquelier	New structures and new compositions of electrochemically active vanadium-based phosphates for Na batteries
	Oral contribution: Verónica Palomares	The use of waste biomass to prepare Na-ion battery cathodes
	Oral contribution: Nicholas Drewett	Manganese-based layered oxides as promising positive electrodes for sodium ion batteries
	Oral contribution: José Manuel Amarilla	Nanostructured anatase TiO ₂ anodes combined with ionic-liquid based-electrolytes for safe Na-ion batteries
	Oral contribution: Prasant Kumar Nayak	Electrochemical performance of layered Na ₂ /3Mn _{0.6} Fe _{0.4} O ₂ for Na-ion batteries
11.10 - 11.30	Coffee Break	
11.30 - 12.45	Session 2: Graphene	Chairman: José Luis Tirado
	Invited Speaker: Guoxiu Wang	Materials architecture design for developing high performance rechargeable batteries
	Oral contribution: Jaime Sánchez	2D Porous NiCoMn Ternary Metal Oxide/Graphene Nanocomposites for Energy Storage Application
	Oral contribution: Raquel González	Graphene-based batteries to improve the efficiency of the existing technologies
12.45 - 14.00	Lunch	
14.00 - 15.35	Session 3: Solid electrolytes	Chairman: Patrick Howlett
	Invited Speaker: Jurgen Janek	Solid Electrolytes as Components of Future Solid State Batteries
	Oral contribution: David Mecerreyes	Innovative Polymers for Electrochemical Energy Storage
	Oral contribution: Frédéric Aguesse	Li ₇ La ₃ Zr ₂ O ₁₂ for solid state batteries: Composition optimization and full cell performances
	Oral contribution: Yuriy Zhirko	Application and physical-chemical properties of hybrid nanostructured materials based on layered InSe and GaSe semiconductor crystals intercalated with ferroelectric salts
15.35 - 16.00	Coffee Break	
16.00 - 17.55	Session 4: Supercaps	Chairman: Mathieu Salanne
	Invited Speaker: John R. Miller	Electrochemical capacitor material performance assessment
	Oral contribution: Laura Oca	Ultrasound characterization during abuse tests on a lithium-ion capacitor
	Oral contribution: Jon Ajuria	Lithium Ion Capacitor based on Carbons from Recycled Olive Pits
	Oral contribution: Céline Tang	Designing novel electrode materials for enhancing the electrochemical performances of aqueous asymmetric supercapacitors : exfoliation and restacking of lamellar metal oxides
	Oral contribution: Yurii Maletin	Yunasko Ultracapacitors Hurdle the Barrier
17.55 - 19.00	Poster Session	
19.15 - 20.30	Beer Tasting	

Tuesday, 4th July 2017

9.00 - 10.50	Session 5: Theory	Chairman:	John R. Miller
	Invited Speaker: Mathieu Salanne		Modeling supercapacitors at the molecular scale
	Oral contribution: M. E. Arroyo de Dompablo		A DFT exploration of multivalent cathode materials
	Oral contribution: Nebil A. Katcho		Identification of potential fast Li and Na ion conductors by high-throughput screening based on bond-valence theory
	Invited Speaker Alejandro A. Franco		Dealing with one gogol of batteries: multiscale modeling to the rescue of design and optimization
10.50 - 11.15	Coffee Break		
11.15 - 13.10	Session 6: Li-ion (anodes: Si and C)	Chairman:	Jurgen Janek
	Invited Speaker: Margret Wohlfahrt-Mehrens		Impact of electrode processing on the electrochemical performance of graphite and silicon based anodes
	Oral contribution: Flaviano García Alvarado		The Mechanism of Lithium Insertion into Na ₂ Ti ₆ O ₁₃ Anode Material
	Oral contribution: Giulio Gabrielli		Compensating the irreversible capacity of Si-based anodes in high-voltage Li-ion batteries
	Invited Speaker: Anthony Burrell		Silicon Anodes: Where to Next?
13.10 - 14.15	Lunch		
14.15 - 15.50	Session 7: Li-ion + Flow batteries	Chairman:	Stefano Passerini
	Invited Speaker: Igor Cantero		Advanced batteries: electrochemistry ... and more
	Oral contribution: Edgar Ventosa		The challenge of the separator in non-aqueous flow batteries. Are semi-solid electrodes a possible way to go?
	Oral contribution: Paula Navalpotro		Proof-of-Concept of Membrane Free Flow Battery
	Oral contribution: Cristina Flox		New formulations of slurries for semi-solid Li-ion batteries based on ZnO, graphene and ionic liquid
15.50 - 16.15	Coffee Break		
16.15 - 18.25	Session 8: Ionic liquids	Chairman:	Margret Wohlfahrt-Mehrens
	Invited Speaker: Dominique Guyomard		Ionogel-based solid state Li metal rechargeable batteries
	Oral contribution: Andrew Basile		The interphase at sodium metal electrodes and the effect of moisture as an additive
	Oral contribution: John F. Véléz		Geminal dicationic ionic liquid-based electrolytes for sodium ion batteries
	Oral contribution: Matthias Hilder		Ionic liquids and their performance as electrolytes for sodium batteries
	Invited Speaker: Stefano Passerini		Concentrated Ionic Liquid-based Electrolytes for Lithium Metal Batteries
18.25 - 19.30	Poster Session		

21.00 - 23.30 Official dinner. Ikea Restaurant

Wednesday, 5th July 2017

9.30 - 10.45	Session 9: Na-ion II	Chairman:	Anthony K. Burrell
	Invited Speaker: José Luis Tirado		Metal substitution vs. Metal oxide coating to enhance the performance of NASICON cathodes for Na-ion batteries
	Oral contribution: Xinwei Dou		Biomass waste derived hard carbon materials for SIBs
	Oral contribution: Joël Gaubicher		Dual anion-cation reversible insertion materials working in ocean water
10.45 - 11.15	Coffee Break		
11.15 - 13.10	Session 10: Beyond Li	Chairman:	Dominique Guyomard
	Invited Speaker: Patrick Howlett		Organic Ionic Plastic crystals – novel ionic electrolytes for alkali metal batteries
	Oral contribution: Deyana Tchitchekova		Electrode Materials for Calcium Based Batteries
	Oral contribution: Dino Tonti		Oxygen chemical mapping of discharge products on metal/O ₂ cathodes by energy-dependent x-ray transmission microscopy
	Oral contribution: Nagore Ortiz		The Importance of Glyme Solvent Choice in Na-O ₂ Batteries
	Oral contribution: Chunmei Li		Evaluation of polymer-rich composite electrolytes for all solid state Li-S batteries
13.10 - 13.40	Industrial case study - Acciona Energy: "Storage: A Green Utility Vision, Approach and Experience". Eugenio Guelbenzu (Acciona Energy)		
13.40 - 14.15	Poster Award Ceremony & Closing		