

Programme

Wednesday, 30th September 2015

- 8:00 8:20 Registration
 8:20 8:30 Welcoming remark: Basque Gov's Representative

Chair: Emilio Bunel/Jesús M. Goiri

Institutional session

(20')

- 8:30 8:50 Peter W. Faguy (US, Department of Energy) "Applied research at the US Department of Energy supporting the development of next-generation batteries for electric drive vehicles (EDVs)"
 8:50 9:10 Kei Hosoi (New Energy and Industrial Technology Development Organization, Japan) "Smart Community Activities and Battery R&D Strategies in NEDO"
 9:10 9:30 Jiqiang Wang (Ministry of Science and Technology of the People's Republic of China) "Latest progress on R & D, production and practical running of Li ion batteries for EV& PHEV in China"
 9:30 9:50 Enrique Monasterio (Ibil, Basque gov.) "The commitment to electric vehicle as a key element in the electricity demand side management"
 9:50 10:10 Jean-Luc di Paola Galloni (European Green Vehicles Initiative)
 10:10 10:40 Coffee break

Chair: Zempachi Ogumi/Steve Visco

Auto industry session

(25')

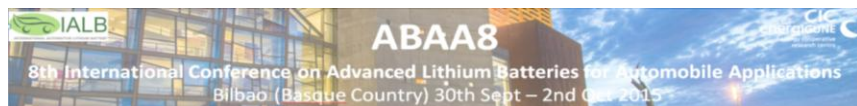
- 10:40 11:05 Joerg Huslage (VW) "Next generation of automobile batteries"
 11:05 11:30 Filippo Maglia (BMW) "Research and application challenges of next generation automotive batteries"
 11:30 11:55 Paul Fanson (Toyota) "In Pursuit of Sustainable Mobility through Advanced Battery Technology"
 11:55 12:20 Jean Francois Reynaud (CAF) "Challenges and Perspectives in Urban Transport"
 12:20 12:45 Masaharu Hatano (Nissan) "Material Research for High Energy Battery "
 12:45 13:10 Kent Snyder (Ford) "Getting Beyond Li-Ion For Automotive: Timelines & Perspective"
 13:10 14:30 Lunch

Chair: Yet Ming Chiang/Kristina Edstrom

Battery companies session

(25')

- 14:30 14:55 Jörg Thielen (Bosch) "SSB – Technological challenges & chances from an industrial perspective"
 14:55 15:20 Egbert Figgemeier (3M) "3M Battery Materials for Automotive Applications"
 15:20 15:45 Zhu Feng (CATL) "Testing & Validation of EV battery pack at CATL"
 15:45 16:10 Yasuhiro Harada (Toshiba) "Development of 12V-class bipolar LiMn1-yFeyPO4 /Li4Ti5O12 battery "
 16:10 16:30 Coffee Break
 16:30 16:55 Masanori Kitamura (GS Yuasa) "Advanced Battery Technology for EV/PHEV applications"
 16:55 17:20 Igor Cantero (Cegasa Portable Energy) "New Oportunities of Energy Storge Beyond Automotive World"
 17:20 17:45 Dee Strand (Wildcat Discovery Technologies) "Novel Electrolytes for Improved Cycle Life of Silicon Alloy Cells "
 17:45 18:10 Wenjuan Liu (Microvast) "Ultrafast Charging & Superb Cycle Life Battery Technology Leads to EV Consumer Satisfaction"
 18:10 19:30 Poster session



Programme

Thursday, 1st October 2015

Chair: Atsuo Yamada/Michael Thackeray

Anode session

(25')

8,30	8,55 Shinichi Komaba (Tokyo University of Science) "Functional Binders for High-Capacity Lithiation Electrodes"
8,55	9,20 Dominique Guyomard (Jean Rouxel Materials Institute (IMN)) "Low cost Si negative electrodes for Li-ion batteries : surface reactivity and multi-direction optimisation"
9,20	9,45 Jiguang Zhang (Pacific Northwest National Laboratory (PNNL)) "Highly Stable Metal Anode for Rechargeable Battery Applications"
9,45	10,05 Kristina Edström (Uppsala University) "Burried Interfaces in Anode Materials for Li-Ion Batteries- Can they influence EVs?"
10,05	10,30 Coffee Break
10,30	10,55 Stefano Passerini (Karlsruhe Institute of Technology) "Conversion-alloying anode materials for lithium-ion batteries"
10,55	11,20 Anton Van Der Ven (University of California, Santa Barbara): Controlling diffusion and phase transformations in anodes to increase capacity and reduce degradation and hysteresis
11,20	11,45 Chao-Yang Wang (Pennsylvania State University) "Delivering 10x Power and 20-min Fast Charging of Li-ion Batteries at Low Temperatures"
11,45	13,15 Lunch

Chair: John Kilner/ Jurgen Janek

Cathode session

(25')

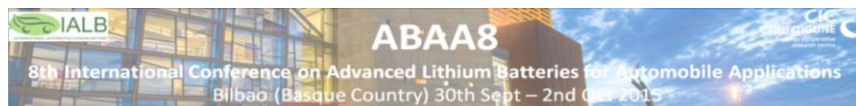
13,15	13,40 Michael Thackeray (Argonne National Laboratory) "Probing the mobility and electrochemistry of oxygen in lithium transition metal oxide electrodes"
13,40	14,05 Montserrat Casas (CIC Energigune) "From structure to microstructure: selected examples from Li-ion cathode materials"
14,05	14,30 Feng Pan (Peking University) "Kinetics of Li-ion Diffusion in Layered $\text{Li}(\text{Ni}_x\text{Mn}_y\text{Co}_z)\text{O}_2$ "
14,30	14,55 Yet-Ming Chiang (MIT) "Re-Thinking Lithium Ion Battery Design and Manufacturing"
14,55	15,15 Coffee Break
15,15	15,40 Yoshiharu Uchimoto (Kyoto University) "What Determines the Package-limitation of Active Materials in the Composite Electrode of Li-ion Batteries?"
15,40	16,05 Zhaoxiang Wang (Chinese Academy of Sciences) "Stabilizing the structure of Li-rich oxide cathode materials"

Chair: Peter Bruce/ Dominique Guyomard

Electrolyte I session

(25')

16,05	16,30 John Kilner (Imperial College) "High Li ion conductivity in ceramic oxide electrolytes"
16,30	16,55 Jürgen Janek (Justus-Liebig-University Giessen) ""Solidifying" lithium ion batteries? – Interfaces between solid and liquid electrolytes"
16,55	17,20 Maria Forsyth (Deakin University) "Improved stability and cycling performance of lithium devices using highly concentrated lithium bis(fluorosulfonyl)imide ionic liquid electrolytes"
17,20	17,45 Atsuo Yamada (University of Tokyo) "Superconcentrated Electrolytes for Advanced Lithium-ion Batteries"
17,45	19,00 Poster session



Programme

Friday, 2nd October 2015

Chair: Peter Bruce/ Dominique Guyomard

Electrolyte II session

8,30 8,55 Michel Armand (CIC Energigune) "Is Lithium metal a viable solution for EVs?" (25')

Chair: Filippo Maglia/Stefano Passerini

Beyond lithium session

8,55 9,20 Tatsumi Ishihara (Kyushu University) "Rechargeable Li-O₂ battery using polymer coating Li metal anode"

9,20 9,45 Steven Visco (Polyplus Battery Company) "Development of Aqueous Lithium-Sulfur Batteries for Electric Vehicle Applications"

9,45 10,10 Peter Bruce (University of Oxford) "The Rechargeable Aprotic Li-O₂ Battery "

10,10 10,35 Kim Chisu (Hydro Quebec) "Failure Mode Analysis and Strategic Approaches for the Development of High Performance Li-Sulfur Batteries"

10,35 11,05 Coffee

11,05 11,30 Jun Lu (Argonne National Laboratory) "Effect of the Size-selective Silver Clusters on Li₂O₂ Morphology in Lithium-Oxygen Batteries"

11,30 11,55 Nobuyuki Imanishi (MIE University, Japan) "Rechargeable Li-Air battery with protected Li metal electrode"

11,55 12,20 Yang Sho Horn (MIT) "Oxygen Redox Chemistry For Energy Storage"

12,20 12,40 Yiyang Wu (Ohio State University) "Rechargeable K-Air and Solar Batteries"

12,40 13,00 CIC & IALB closing remark

13,00 13,10 Adjourn

(25')