

agenda

Monday, April 13 • **MaBIC15 WELCOME RECEPTION**

8:00 pm "Estrella Galicia" Tapas

Tuesday, April 14 • **KEYNOTE SESSIONS**

• **9:00 am** Welcome to city by Major of A Coruña – **Excmo. Sr. D. Carlos Negreira Souto** and **Excmo. Sr. D. Francisco Conde López**, Conselleiro de Economía e Industria de la Xunta de Galicia.

• **9:15 am** Welcome to MaBIC 15 by Organizing Committee chairperson **Dr. Joaquín Chacón**, president of Famuncyt and Scientific Council chairman **Prof. Dr. Enrique Fatás**, full Professor of Autónoma University of Madrid.

BEGINNING OF KEYNOTE 1st SESSION

• **9:30 am** *DEVELOPMENT OF NOVEL ELECTROLYTES SYSTEMS AND CATALYSTS FOR ZINC/AIR BATTERIES* - J. Alberto Blázquez, Aroa R. Mainar, Olatz Leonet, Miguel Bengoechea, Oscar Miguel, Juan J. Iruin, Stephan Weinberger and Viktor Hacker from IK4-CIDETEC and Departamento de Ciencia y Tecnología de Polímeros, Facultad de Química (UPV/EHU) - San Sebastián, SPAIN and Institute of Chemical Engineering and Environmental Technology, Graz University of Technology - Graz, AUSTRIA.

• **9:55 am** *HIGH CAPACITY IRON ELECTRODES FOR IRON-AIR BATTERIES: MANUFACTURING AND ELECTROCHEMICAL TESTS* - M. Insausti, M. Zubizarreta, F. Fernández-Carretero, A. García-Luis, V. Baglio, C. Alegre and A.S. Aricò from TECNALIA - San Sebastián, SPAIN and Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" - Messina, ITALY.

• **10:20 am** *MODELING CRYSTAL GROWTH AND MULTI-PHASE FLOW IN METAL-AIR BATTERIES* - Birger Horstmann, Timo Danner and Arnulf Latz from Helmholtz Institute Ulm, University of Ulm and German Aerospace Center, Institute of Engineering Thermodynamics - Stuttgart, GERMANY.

10:45 am Networking Morning Coffee Break

• **11:15 am** *IRON-AIR BATTERY WITH NOVEL BIFUNCTIONAL NANOCATALYSTS* - R. McKerracher, H. Figueredo, C. Alegre, V. Baglio, A.S. Aricò and C. Ponce de León from University of Southampton - UNITED KINGDOM and Consiglio Nazionale delle Ricerche, Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" - Messina, ITALY.

• **11:40 pm** *IONIC LIQUID-BASED ELECTROLYTES FOR LI-O₂ BATTERY* - E. Knipping, C. Aucher, S. Martinez Crespiera, D. Amantia and L. Aubouy from Leitat Technological Center - Terrassa, SPAIN.

• **12:05 pm** *COMBINED MODEL-BASED AND EXPERIMENTAL ANALYSIS TO UNDERSTAND AND IMPROVE METAL-AIR BATTERIES* - Daniel Schröder, Ulrike Krewer from Institute of Energy and Process Systems Engineering, TU Braunschweig - Braunschweig, GERMANY.

• **12:30 pm** *PERFORMANCE OF ALUMINUM ALLOYS ANODES IN AL-AIR BATTERY* - M. Pino, D. Herranz, P. Rodríguez, J. Chacón, E. Fatás and P. Ocón from Facultad de Ciencias, Departamento Físico Química Aplicada, Universidad Autónoma de Madrid and Albufera Energy Storage - Madrid, SPAIN.

12:55 – 3:00 pm Luncheon in the Exhibit Hall

BEGINNING OF KEYNOTE 2nd SESSION

• **3:00 pm** *IN SITU MEASUREMENTS OF ZINC PASSIVATION IN RECHARGEABLE ZINC-AIR BATTERIES* - Marina Bockelmann from Clausthal University of Technology Institute of Chemical and Electrochemical Process Engineering - Clausthal-Zellerfeld, GERMANY.

• **3:25 pm** *STUDY OF ZINC ELECTRODEPOSITION PARAMETERS FOR ZINC/AIR FLOW BATTERIES* - A. Ibañez, B. Amunategui, M. Sierra and M. Perez from Técnicas Reunidas - Madrid, SPAIN.

3:50 pm Networking Afternoon Coffee Break

• **4:20 pm** *PULSEDCONTROLLED ELECTRODEPOSITION OF ZINC AS THE CHARGING PROCESS FOR ALKALINE ZINC/AIR BATTERIES – OLD TECHNIQUE FOR FUTURE APPLICATIONS?* - Jens Christian Riede, Ulrich Kunz and Thomas Turek, from Clausthal University of Technology, Institute of Chemical and Electrochemical Process Engineering - Clausthal-Zellerfeld, GERMANY.

• **4:45 pm** *GUIDED TOUR of the MUNCYT MUSEUM*

8:00 pm Gala Dinner in La Domus

Wednesday, April 15 • KEYNOTE SESSIONS

BEGINNING OF KEYNOTE 3rd SESSION

• **9:00 am Z1: NEW INDUSTRIAL ALKALINE BATTERY** - R. García, S. Romero, I. Cantero, A. Blazquez, I. Boyano from Cegasa – Oñati and IK4-CIDETEC - San Sebastian, SPAIN.

• **9:25 am USE OF METAL-OXIDE NANOSTRUCTURES AS CATALYST AND THEIR APPLICATION FOR AIR ELECTRODES** - E. García-Quismondo, P. Leung, R. Marcilla, J. Palma and M. Anderson from Electrochemical Processes Unit, IMDEA Energy Institute – Madrid, SPAIN and Environmental Chemistry & Technology Program, University of Wisconsin-Madison - Wisconsin, USA.

• **9:50 am COMPARISON OF PD CATALYSTS SUPPORTED ON BOTH CARBON SUPPORTS AND TITANIUM SUBOXIDES FOR THE AIR ELECTRODE OF IRON-AIR BATTERIES** - C. Alegre, E. Modica, C. Lo Vecchio, A. Stassi, A.S. Aricò and V. Baglio from Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" – Messina, ITALY.

10:15 am Networking Morning Coffee Break

• **10:45 am Lecture: "Metal-air battery technology review"** by Dr. Richard Wills from University of Southampton.

• **11:30 pm STATIONARY MODEL FOR RECHARGEABLE ZINC AIR BATTERIES IN FLOWING ALKALINE SOLUTION** - Laurens Reining, Ulrich Kunz and Thomas Turek from Clausthal University of Technology, Institute of Chemical and Electrochemical Process Engineering - Clausthal-Zellerfeld, GERMANY.

• **11:55 pm IRON OXIDE SYNTHESIZED BY THE ADAM'S FUSION METHOD AS THE NEGATIVE ELECTRODE FOR IRON-AIR BATTERIES** - V. Baglio, C. Alegre, S. Siracusa-no and A.S. Aricò from Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano" – Messina, ITALY.

• **12:20 pm STRUCTURAL CHARACTERISTICS AND CORRELATED PERFORMANCE OF VARIOUS CURRENT COLLECTORS FOR RECHARGEABLE ZINC ANODES IN ZINC AIR BATTERIES** - P. Titscher, J. Wiedemann, H. Bockholt and A. Kwade from Institute of Particle Technology, Technische Universität Braunschweig - Braunschweig, GERMANY.

12:45 – 3:00 pm Luncheon in the Exhibit Hall

• **3:00 pm Keynote Speaker** Claudio Capiglia from Recruit R&D "The challenge of new battery technologies for electric vehicles, a successful strategic approach".

4:00 pm Networking Afternoon Coffee Break

• **4:30 pm Lecture: "Aspects of Battery Recycling Legislation"** by José Pérez García, CEO Recyclia & Ecopilas President, board member of EUCOBAT.

• **5:00 pm Roundtable "Standardization and Normalization"** by Dr. María de Fátima Negreli Campos Rosolem from CPqD, José Antonio Jiménez from AENOR and María Eugenia Díaz from SERCOBE-Manu-KET.

7:30 PM • ABIERTO AL PÚBLICO

Charla Coloquio "El emprendimiento en Ciencia y Tecnología", D. Carlos Calvo, Presidente Federación de Centros Tecnológicos de España, D. Manuel Varela Rey, director de la Axencia Galega de Innovación, Dña. Marián del Egido Rodríguez, directora del Museo Nacional de Ciencia y Tecnología y Dr. Joaquín Chacón, presidente de la Fundación de Apoyo al Museo Nacional de Ciencia y Tecnología.

Thursday, April 16 • BUSINESS CORNER

• **9:30 am Lecture: "Electric Vehicle: The big challenge for new battery technologies"** by Arturo Pérez de Lucía, managing director of AEDIVE.

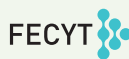
• **10:00 am Lecture: "International Business Environment for Science and Technology"** by Alba Álvarez, international project manager and Santiago Meier, electric mobility coordinator of SECARTYS.

• **10:30 am Lecture: "Financing for Science and Technology startups"** by Yolanda Falcón García, investment manager of Uninvest.

11:00 am Networking Morning Coffee Break

• **11:30 am BUSINESS CORNER** will consist in friendly meetings, be to be, between investors and creator of technical and scientific projects in energy storage field with new advanced battery technologies. With its purpose we will try to make an approach between scientific knowledge and the financiers, which, unfortunately, do not always walk hand in hand.

• **13:30 pm Closing Remarks** by director of Museum MUNCYT - Dña. Marián del Egido Rodríguez, president of Famuncyt Dr. Joaquín Chacón and full Prof. of Autónoma University of Madrid Prof. Dr. Enrique Fatás & End of the First Metal-air Batteries International Congress.



Patrocinadores:



XUNTA DE GALICIA
CONSELLERÍA DE ECONOMÍA
E INDUSTRIA

