

2^º SUPERBAT, International Course on “Batteries and Supercaps” 20-21 October @ Univ. Complutense de Madrid

FREE
REGISTRATION!



CONTENTS

Li-ion batteries and beyond: Na, K, Mg, Ca-ion, Metal-Air batteries, Li-Sulphur, Redox Flow (inorganic and organic based), liquid and solid electrolytes. Electrochemical double layer capacitors, hybrid supercapacitors. Processing of battery materials.

LECTURERS (on-site)

Elizabeth Castillo-Martínez, Univ. Complutense de Madrid-UCM

Xiao Hua, Lancaster University (UK)

M^ª Luisa Sanjuan, INMA-CSIC-Universidad de Zaragoza

Alexandre Ponrouch, ICMAB-CSIC

Irune Villaluenga, Polymat

Erlendur Jonsson, University of Cambridge (UK)

Paula Navalpotro, IMDEA Energía

Alejandro Várez, Universidad Carlos III

Maider Zarrabeitia, Helmholtz Institute Ulm (Germany)

Ricardo Santamaría, INCAR-CSIC

Evan Wenbo Zhao, Radboud University Nijmegen (Netherlands)

Javier Carretero-González, ICTP-CSIC

SUPERBAT is an excellent training to face the challenges and opportunities that an increasingly sustainable society is demanding. During this 2-day course (12 hours), students will acquire basic knowledge on different topics of interest such as: rechargeable electrodes, liquid and solid electrolytes; solid state chemistry, synthesis, characterization and implementation of these electrode and electrolyte materials in laboratory cells; theory and calculations.

Specific objectives include acquiring basic knowledge about:

- The most widespread electrochemical storage systems such as batteries and supercapacitors.
- Electrochemical characterization to determine the storage capacity, electrochemical stability, power, cyclability and lifetime of different systems.
- Application of ex-situ and in-situ techniques for the characterization of electrode and electrolyte materials of batteries and supercaps.
- Simulation and calculations applied to battery materials.
- Battery materials processing, reuse and recycling as well as second life of batteries and supercapacitors.

Register now by email to superbatcourse@gmail.com

with the following information:

Full name, current status and affiliation, and specify whether you would like to participate on-site or online.

HYBRID EVENT

(Limited availability for on-site participation)



Madrid UCM
Student Chapter



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