



# EVENTO ENERGY CENTER LAB

Energy Storage

# 11

settembre 2018  
ore 9.00

Energy Center

The **Electrochemistry Group** of Politecnico di Torino is glad to invite you at this seminar organized in the frame of the POLAR project. POLAR is focused on post lithium-ion storage systems whose production is related to material needs and raw material costs and Argentina possesses many mines and it is one of the main producer of lithium. POLAR aims to establish strong research activities between Italy and Argentina on high energy batteries.

The seminar is addressed to students, post-docs and researchers interested in modeling and in getting additional information on Lithium availability and storage systems for next future.

## 9.00 / **Welcome**

Silvia Bodoardo

Coordinator project POLAR

Francesca Verga

Vice Rettore per l'Internazionalizzazione

Stefano Corgnati

Vice Rettore per la Ricerca

Romano Borchellini

Referente del Rettore per l'Energy Center

## 9.30 / **Seminar 1**

Arnaldo Visintin

Full Professor Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA), La Plata-CONICET, Argentina  
*Lithium availability and active materials for Li-ion Batteries*

## 10.15 / Q&A

## 10.30 / **Seminar 2**

Ezequiel Leiva

Full Professor Dep. de Matemática y Física - Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, Argentina  
*Application of Computer Simulations to improve our Understanding on Lithium-ion Storage in some Paradigmatic Systems*

## 11.15 / Q&A

Energy Center  
Via Borsellino 38/16  
Torino





ENERGY  
CENTER



POLITECNICO  
DI TORINO



**Arnaldo Visintin**

Instituto de Investigaciones Fisicoquímica Teóricas y Aplicadas (INIFTA), Universidad Nacional de La Plata, Argentina.

e-mail [avisintin@inifta.unlp.edu.ar](mailto:avisintin@inifta.unlp.edu.ar)

Doctor of Chemical Sciences with Guidance in Chemical Technology Independent researcher of the National Council of Scientific and Technical Research (CONICET).

Professor, Faculty of Exact Sciences, National University of La Plata.

INSTITUTE DIRECTOR: Organizing Director of the Center for Research and Development in Advanced Materials and Energy Storage of Jujuy (CIDMEJu), 2016-2018

He has over 120 publications and over 14 communications. Prof. Visintin is responsible of different grants and national and international research projects: Texas A and M University, Texas, Oviedo, Spain and Brno, Czech Republic

**Research Interests:**

electrochemistry,  
energy storage,  
hydrogen technologies.



**Ezequiel Pedro Marcos LEIVA**

Departamento de Matemática y Física

Facultad de Ciencias Químicas, Universidad Nacional de Córdoba, Córdoba, Argentina

e.mail: [eleiva@fcq.unc.edu.ar](mailto:eleiva@fcq.unc.edu.ar)

Doctor in Physical Chemistry, Faculty of Chemical Sciences, National University of Cordoba. Argentina

Full Professor, Faculty of Chemical Sciences, University of Cordoba, Argentina.

Prof Leiva has more than 180 research articles in international journals. 17 book chapters.

He is member of the Advisory Board of Electrochimica Acta, and of International Society of Electrochemistry,

**Research Interests:**

Theoretical study of adsorption on metal surfaces by means of density functional calculations.

Theory of the solid/liquid interface.

Simulation of the metal/solution interface by classical atom dynamics.

Simulation of electrochemical nanostructuring by molecular dynamics and Monte Carlo simulations.

Computer simulation of nanoparticles

First-principles studies of molecular wires.

Development of accelerated molecular dynamics methods.

Modeling of Lithium-ion batteries