



# International Workshop on Supercapacitors and Energy Storage

31 May - 1 June 2018

Grand Hotel Salerno, Salerno, Italy



## WORKSHOP PROGRAM

"New roots..."



### WORKSHOP CHAIRMEN

Paolo Ciambelli, *University of Salerno*  
Alessandro Lampasi, *ENEA*

### SCIENTIFIC COMMITTEE

Giancarlo Abbate, *University of Naples*  
Paolo Mattavelli, *University of Padua*  
Maria Sarno, *University of Salerno*  
Francesca Soavi, *University of Bologna*  
Giuseppe Taddia, *OCEM Power Electronics*



<http://www.worcap.eu>

Thursday, 31 May 2018

Visit to Campus and laboratories of University of Salerno (optional)

*University staff*

Survey of energy storage applications and potential market

*Damiano Cavallaro (Politecnico di Milano, Italy)*

Supercapacitors: key systems for energy sustainability

*Francesca Soavi (University of Bologna, Italy)*

Review on supercapacitors: matching materials and electrolytes for high-rate energy delivery

*Roman Mysyk (CIC Energigune, Spain)*

New graphene based electrode for supercapacitor applications

*Maria Sarno (University of Salerno & NARRANDO, Italy)*

ENEA's test facilities and activities on batteries and supercapacitors

*Francesco Vellucci (ENEA Casaccia, Italy)*

Towards industrialization of a new supercap generation

*Giancarlo Abbate (University of Naples Federico II & CapTop, Italy)*

Lightweight flexible CNT supercapacitors for hybrid systems and morphing materials

*Giulia Lanzara (Roma Tre University, Italy)*

Hybrid materials as cathode and carbon based materials as anode for asymmetric supercapacitor applications

*Ncholu Manyala (University of Pretoria, South Africa)*

BETTERY: an Italian startup for the design of novel redox flow batteries

*Francesca De Giorgio (University of Bologna & BETTERY, Italy)*

Molecular dynamics and quantum mechanics study on/of ions conductivity of polyelectrolytes

*Javier Luque Di Salvo (University of Palermo, Italy)*

State of the art and future trends of supercapacitor technology

*Jan Ernst (Maxwell Technologies & Nesscap Energy, USA)*

State of the art and comparative test results of the current state-of-the-art supercapacitors

*Egert Valmra (Skeleton Technologies, Estonia)*

Supercapacitors for high temperatures and harsh environments

*Fabrizio Martini (FastCap Systems, USA)*

New electrode materials for a new generation of supercapacitors

*Pascal Boulanger (NAWATEchnologies, France)*

Lithium-ion capacitor (LIC) modules to combine energy and power performances

*Massimo Miotti (EAS, Italy)*

Compact power supplies with integrated energy storage and recovery capabilities

*Sandro Tenconi (OCEM Power Electronics, Italy)*

Keep the evaluation of a battery state of charge updated

*Luigi Pellegrino (RSE, Italy)*

Supercapacitor-assisted starting and peak load shaving in heavy-duty vehicles

*Alon Kuperman (Ben-Gurion University of the Negev, Israel)*

Laboratory research on the application of supercapacitor-based storage systems for electric mobility

*Clemente Capasso (CNR Istituto Motori, Italy)*

Technical and economical evaluation of hybrid flash-charging stations for electric public transport

*Fernando Ortenzi (ENEA Casaccia, Italy)*

Energy storage projects for smart distribution grids

*Laura Pimpinella (Enel Distribuzione, Italy)*

Supercapacitor as backup for industrial production processes

*Gregor Scheppelmann (FREQCON, Germany)*

Supercapacitor application for reduction of power oscillations

*Marcos Lafoz (CIEMAT, Spain)*

Battery systems for residential energy storage

*Vincenzo Ferreri (Sonnen, Germany)*

Mitigation of power modulation impact in the ITER fusion project using supercapacitors: a feasibility study

*Loris Zanotto (RFX Consortium, Italy)*

"... for new plants"

Check website for final program with timetable

Workshop participation is free (with registration)