

## **International Workshop on**

## **Supercapacitors and Energy Storage**

31 May - 1 June 2018 Grand Hotel Salerno, Salerno, Italy

















## **WORKSHOP CHAIRMEN**

Paolo Ciambelli, University of Salerno Alessandro Lampasi, ENEA

Friday, 1 June 2018

## **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	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 <i>(CIC Energigune, Spain)</i>
	New graphene based electrode for supercapacitor applications	Maria Sarno (University of Salerno & NARRANDO, 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)
	BETTERY: an Italian startup for the design of novel redox flow batteries	Francesca De Giorgio (University of Bologna & BETTERY, Italy)
	Tests of supercapacitors and batteries in the framework of the European	Francesco Vellucci (ENEA Casaccia, Italy)

of polyelectrolytes	
Performance of commercially available supercapacitors	Mazen Yassine (Santa Clara University, USA)
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 Egert Valmra (Skeleton Technologies, Estonia) supercapacitors

Supercapacitors for high temperatures and harsh environments Fabrizio Martini (FastCap Systems, USA)

Lithium-ion capacitor (LIC) modules to combine energy and power Massimo Miotti (EAS, Italy) performances

Molecular dynamics and quantum mechanics study on/of ions conductivity

Compact power supplies with integrated energy storage and recovery Sandro Tenconi (OCEM Power Electronics, Italy) capabilities

Keep the evaluation of a battery state of charge updated Luigi Pellegrino (RSE, Italy)

Supercapacitor-assisted starting and peak load shaving in heavy-duty Alon Kuperman (Ben-Gurion University of the Negev, Israel)

Laboratory research on the application of supercapacitor-based storage Clemente Capasso (CNR Istituto Motori, Italy) systems for electric mobility

Technical and economical evaluation of hybrid flash-charging stations for Fernando Ortenzi (ENEA Casaccia, Italy) electric public transport

Laura Pimpinella (Enel Distribuzione, Italy) Energy storage projects for smart distribution grids

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 Loris Zanotto (RFX Consortium, Italy) supercapacitors: a feasibility study

Check website for final program with timetable

Workshop participation is free (with registration)