

AUTOSUPERCAP Dissemination Meeting: Energy Storage Materials & Supercapacitors

THURSDAY 25 JULY 2013, UNIVERSITY OF SURREY, GUILDFORD, UK



SCOPE

This one-day workshop will focus on recent developments in the FP7 AUTOSUPERCAP project on energy storage materials for supercapacitors in automotive applications and will also include an overview of related work at the University of Surrey on nanomaterials and within the EPSRC SUPERGEN Consortium. Also to include a presentation on EERA (European Energy Research Alliance).

THEMES

- Supercapacitors in the electric vehicle (EV) power system
- Activated carbon materials for electrodes
- Carbon nanotube and graphene nanomaterials for electrodes
- Fabrication and performance of supercapacitor cells
- Scaling-up of supercapacitor cells; supercapacitor banks
- Life cycle and cost analysis

OUTLINE PROGRAMME

- 10:00 Start
16:00 Close
16:30 Lab Tours (Specific pre-registration required)

AUTOSUPERCAP: Development of High Energy/High Power Density Supercapacitors for Automotive Applications
<http://autosupercap.eps.surrey.ac.uk/>

Contact

Lynn Boniface
Department of Mechanical Engineering Sciences
University of Surrey
Guildford, Surrey
GU2 7XH, UK
E: l.boniface@surrey.ac.uk
T: (+44)1483 686299
W: www.surrey.ac.uk/mes/

Registration

Registration £25. (Please note that pre-registration is required for the lab tours.)

Venue

Lecture Theatre E, University of Surrey
Location and travel:
www.surrey.ac.uk/about/visitors/

AUTOSUPERCAP: Development of High Energy/High Power Density Supercapacitors for Automotive Applications
<http://autosupercap.eps.surrey.ac.uk/>



AUTOSUPERCAP Dissemination Meeting: Energy Storage Materials & Supercapacitors

THURSDAY 25 JULY 2013, UNIVERSITY OF SURREY, GUILDFORD, UK



PROGRAMME (a.m.)

09:30 REGISTRATION AND COFFEE

10:00 Welcome and Introduction – Dr Tina Lekakou (Univ of Surrey) –
Coordinator of AUTOSUPERCAP

10:15 Principles and Modelling of Supercapacitors – Dr Tina Lekakou
(Univ of Surrey)

10:45 Modelling and Testing of Electric Vehicle Power System with Battery
and Supercapacitor – Alberto Santucci, Dr Aldo Sorniotti
(Univ of Surrey)

11:15 Activated Carbon Coating-based Electrodes – Dr Negar Amini,
Prof Steve Tennison (MAST Carbon International)

11.35 Multiwall Carbon Nanotubes in Supercapacitor Electrodes – Foivos
Markoulidis (Univ of Surrey)

11:55 Graphene-based Supercapacitor Electrodes – Dr Chunhong Lei
(Univ of Surrey), Dr Christos Trapalis (NCSR Demokritos)

12:15 Activated Carbon Fabrics as Supercapacitor Electrodes – Dr Tina
Lekakou (Univ of Surrey)

12:30 LUNCH

Contact

Lynn Boniface
Department of Mechanical
Engineering Sciences
University of Surrey
Guildford, Surrey
GU2 7XH, UK
E: l.boniface@surrey.ac.uk
T: (+44)1483 686299
W: www.surrey.ac.uk/mes/

Registration

Registration £25. (Please
note that pre-registration is
required for the lab tours.)

Venue

Lecture Theatre E, University
of Surrey
Location and travel:
www.surrey.ac.uk/about/visitors/

AUTOSUPERCAP: Development of High Energy/High Power
Density Supercapacitors for Automotive Applications
<http://autosupercap.eps.surrey.ac.uk/>



AUTOSUPERCAP Dissemination Meeting: Energy Storage Materials & Supercapacitors

THURSDAY 25 JULY 2013, UNIVERSITY OF SURREY, GUILDFORD, UK



PROGRAMME (p.m.)

- 14:00 Scaling up of Coating Production – Dr Peter Wilson (Univ of Surrey)
- 14:20 Scaling up of Cell Manufacture – Dr Chunhong Lei, Dr Peter Wilson, Foivos Markoulidis (Univ of Surrey)
- 14:40 Supercapacitor Banks – Balancing Circuits - Testing – Dr Peter Wilson, Alberto Santucci, Dr Tina Lekakou, Dr Aldo Sorniotti (Univ of Surrey)
- 15:00 Life Cycle and Cost Analysis of Supercapacitors – Dr Marcel Weil (KIT-G)
- 15:20 Research on Supercapacitors by the University of Surrey Chemistry Group – funded by EPSRC SUPERGEN – Prof Bob Slade (Univ of Surrey)
- 15:40 An Overview of the European Energy Research Alliance (EERA) – Prof Peter Hall (Univ of Sheffield)
- 16:00 CLOSE AND COFFEE
- 16:30 Lab Tours of the AUTOSUPERCAP Project at the University of Surrey (Please note that specific pre-registration is required for the tours)

Contact

Lynn Boniface
Department of Mechanical
Engineering Sciences
University of Surrey
Guildford, Surrey
GU2 7XH, UK
E: l.boniface@surrey.ac.uk
T: (+44)1483 686299
W: www.surrey.ac.uk/mes/

Registration

Registration £25. (Please note that pre-registration is required for the lab tours.)

Venue

Lecture Theatre E, University of Surrey
Location and travel:
www.surrey.ac.uk/about/visitors/

AUTOSUPERCAP: Development of High Energy/High Power Density Supercapacitors for Automotive Applications
<http://autosupercap.eps.surrey.ac.uk/>



CENTRO RICERCHE FIAT



oerlikon graziano

