

Carbon for Energy Storage and Environment Protection - CESEP'2017
LYON (France) – October 23rd to 26th, 2017
Program

Monday 23/10

8h-9h45 Registration and welcome coffee

9h15-9h45 Opening address

9h45-11h00 Session 1 chairperson PISCHEDDA V.

9h45-10h15	K5Si	LEYSALLE J. M.	Atomistic simulation of disordered carbons: formation, structure and properties
10h15-10h30	OSi1	MAGNIN Y.	Nickel-Carbon nanoparticles: Size dependent phase diagrams and interaction with graphenic layers
10h30-10h45	ONC6	NASSOY F.	Vertically Aligned Carbon Nanotube Growth on Aluminium Substrate at Low Temperature
10h45-11h00	OH2	DINI Y.	Understanding Electrical Transport in Carbon Nanotube Yarn

11h00-11h30 Coffee Break

11h30-12h45 Session 2 chairperson AZAIS P.

11h30-12h00	K2Sc	MERLET C.	Multi-scale Models to Study Dynamics and Confinement in Nanoporous Carbons for Energy Storage Applications
12h00-12h15	OSc3	ALVAREZ FERRERO G.	Free-standing hybrid films based on graphene and porous carbon particles for supercapacitors
12h15-12h30	OSc6	ABBAS Q.	Confinement of Iodides within Porosity of Positive Carbon Electrode for Improved Performance of Aqueous Hybrid Supercapacitor
12h30-12h45	OSc7	MOSTAZO-LOPEZ M. J.	Nitrogen Doped Activated Carbons Prepared at Mild Conditions as Electrodes for Supercapacitors in Organic Electrolyte

12h45-14h00 Lunch

14h00-16h Session 3 chairperson LASZLO K.

14h-14h30	K3NC	SEVILLA M.	Sustainable Porous Carbons for Energy-Related Applications
14h30-14h45	ONC3	GHIMBEU C.	Facile and green synthesis of nitrogen-doped carbon spheres
14h45-15h00	ONC1	NOMURA K.	Unique properties of graphene-based mesoporous carbon
15h00-15h15	ONC7	TITIRICI M.	Hydrothermal Carbon Nanocrystals – A new generation of sustainable optically active materials
15h15-15h30	OCh1	HEUMANN S.	Characterization and Activity Studies of Carbon Functional Groups and their Covalent Bonding Features in Atomic Layer Deposition
15h30-15h45	OCh4	VELASCO L.	Water as a Probe Molecule for Simultaneous Assessment of Surface Groups and Porosity of Activated Carbons
15h45-16h00	OCh3	JAGIELLO J.	Employing Adsorption of Oxygen Instead of Nitrogen for the Characterization of Carbon Nanopore Structure

16h00-16h30 Coffee Break

16h30-18h30 Session 4 chairperson CARVALHO A. P.

16h30-17h00	K6W	PORADA S.	What to Expect From Using Carbon and Intercalation Electrodes for Water Desalination?
17h00-17h15	OSi3	BIESHEUVEL M.	Theory of Water desalination using Porous Carbon Electrodes
17h15-17h30	OW1	PRESSER W.	Capacitive and Faradaic desalination for energy efficient and stable treatment of brackish water and sea water
17h30-17h45	OW2	DOMERGUE L.	Adsorption of Diclofenac on Carbon Monolith and adsorbents regeneration using electrogenerated radicals
17h45-18h00	OW5	FAVRE BOIVIN F.	Depuration capacity of wood waste biochars towards micropollutants in waste waters
18h00-18h15	OW3	DELPEUX S.	A universal hybrid adsorbent based on chitosan / carbon material / clay for water treatment
18h15-18h30	OW4	MESTRE A.	Pharmaceuticals analysis using hydrochars as effective enrichment phases

18h45-20h45 Poster Session 1 (Topic Energy), and Cocktail

Tuesday 24/10

8h30-10h Session 5 chairperson PRESSER V.

8h30-9h00	K1Sc	SHIRAIISHI S.	Performance and Charge-Discharge Mechanism of Graphite-Fluoride Alkali-Metal Capacitors
9h00-9h15	Osc1	ROJO J.	Carbon Monoliths Consisting of Two Carbon Phases as Electrodes for Supercapacitors
9h15-9h30	Osc10	SKOWRON P.	Study of faradaic impedance at the carbon electrode/ionic liquid electrolyte interface on the performance of EDL-capacitor
9h30-9h45	Osc11	SCARAVONATI S.	Carbon Nanostructures For High-Performance Supercapacitors
9h45-10h00	Osc8	PIBALEAU B.	MnO ₂ /VACNT Nanostructured Electrodes for Supercapacitors

10h00-10h30 Coffee Break

10h30-12h15 Session 6 chairperson ROJO J.

10h30-11h00	K4Ch	PARIS O.	Watching ions in supercapacitors at work by in-situ X-ray scattering
11h00-11h15	Osc4	KYOTANI T.	Analysis of Electrochemical Degradation of Carbon Materials from a Molecular Point of View
11h15-11h30	Osc9	PIWEK J.	The Effect of Ageing Phenomena on the Carbon Porosity in High-Voltage Aqueous Capacitor
11h30-11h45	Osc2	KIKUCHI K.	Increment of Specific Surface Area of Activated Carbon Derived from Spent Coffee Grounds by Acid Pretreatment
11h45-12h00	OCh2	OZAKI J.	Observation of Electrochemical Oxidation of Carbons by Semi in-situ Raman Spectroscopy Coupled with Cyclic Voltammetry
12h00-12h15	OCh5	LOS S.	Impedance Spectroscopy as a Detailed Method to Characterize Electrochemical Performance of Porous Carbons

12h15-12h45 Presentations of exhibitors, chairperson ONDARTS M.

13h00-14h30 Lunch

14h30-16h00 Session 7 chairperson MATOS J.

14h30-15h	K7Ca	ANIA C. O.	Photoreduction of methyl viologen by nanoporous carbons: a laser flash photolysis study
15h00-15h15	OCa5	HOF F.	Graphitic Intercalation Compounds: a versatile nano-template for the synthesis of multi-functional electrocatalyst
15h15-15h30	OCa4	INIESTA J.	On the use of mesoporous carbons for the immobilization of formate dehydrogenase towards the CO ₂ electrochemical reduction.
15h30-15h45	OCa12	LASZLO K.	Nitrogen Doped Carbon Aerogel - Graphene Composite Materials for Electrocatalysis
15h45-16h00	OCa3	RODENAS T.	Cobalt-based Metal-Organic Framework Nanosheets on Graphitic Carbon Composite Materials for Electrocatalysis

16h00-16h30 Coffee Break

16h30-17h30 Session 8 chairperson JAGIELLO J.

16h30-16h45	OCa10	BOSILJ M.	Optimisable Hydrothermal Carbons in Heterogeneous Catalysis
16h45-17h00	OCa11	GERBER I.	Atomic-scale structures of Ruthenium-fullerides and Insights of their catalytic properties from a computational point of view
17h00-17h15	OCa8	TUOMIKOSKI S.	Biomass-Based Carbon as Support Material for Fe Catalysts: Applications in Oxidation Processes
17h15-17h30	OCa9	BACCOUR M.	Carbonaceous Monoliths with Hierarchical Porosity as Supports for Biocatalysis

17h45-20h00 Poster Session 2 (Topic Environment), and Soft Drink and Beer Party

Wednesday 25/10

8h30-10h30 Session 9 chairperson JOB N.

8h30-9h00	<i>K8Li</i>	MAILLARD F.	Electrochemical Corrosion of High Surface Area Carbon Supports Used in Proton-Exchange Membrane Fuel Cell Cathodes
9h00-9h15	<i>OLi2</i>	FONTANA S.	Various functionalization techniques of carbon support for PEMFC electrodes
9h15-9h30	<i>OLi11</i>	GADIOU R.	H ₂ /O ₂ bio fuel cell using carbon nanofiber electrodes
9h30-9h45	<i>OLi1</i>	KAWAGUCHI M.	Electrochemical Intercalation of Sodium into B/C/N and B/C Materials as Anodes of Sodium Ion Batteries
9h45-10h00	<i>OLi10</i>	BEDA A.	Development of eco-friendly hard carbons for sodium ion batteries (NIBs)
10h00-10h15	<i>OLi7</i>	PONTIROLI D.	Graphene-Based Electrodes for High-Performance Na-Ion Batteries
10h15-10h30	<i>OLi5</i>	LANNELONGUE J.	Carbon's impact on active material utilization in advanced lead-acid batteries using thin plate technology

10h30-11h15 Coffee Break, and Photograph of the attendees

11h15-12h15 Session 10 chairperson GHIMBEU C.

11h15-11h30	<i>OLi3</i>	LEONARD A.	Carbon Xerogels as Model Materials to Study the Behavior of Hard Carbons as Anodes for Lithium-ion Batteries
11h30-11h45	<i>OLi6</i>	DOERFLER S.	Nitrogen doped carbon materials in Lithium-Sulfur batteries for low electrolyte contents
11h45-12h00	<i>OLi8</i>	BAASNER A.	Silicon Carbon Void Structures as Anode Material for Advanced Lithium-Ion and Lithium-Sulfur Batteries
12h00-12h15	<i>OLi9</i>	MINAMISAWA T.	Development of Electrode Materials for High Capacity Energy Devices Utilizing Nano Spaces

12h15-13h45 Lunch

13h45-15h15 Session 11 chairperson ANIA C. O.

13H45-14H15	K9H	GARCIA H.	Defective Graphenes for Solar Fuels Production
14H15-14H30	ONC4	HERRAIZ M.	Femtosecond laser exfoliation of graphite fluorides
14H30-14H45	OH1	GOMIS- BERENQUER A.	Analysis of the photoelectrochemical response of nanoporous carbon electrodes
14h45-15h00	OCa1	MATOS J.	Carbon-based Catalysts and Photocatalysts for the Integrated Photo-Biorefinery
15h00-15h15	OCa7	FERNANDEZ DE CORDOBA M. C.	Synthesis and Characterization of Nanoporous Carbons Decorated with Metal Nanoparticles Using Room Temperature Photoinduced Approaches

15h15-15h45 Coffee Break

15h45-17h30 Session 12 chairperson KYOTANI T.

15h45-16h15	K10NC	MELINON P.	Topology of thin films of glassy carbon prepared by cluster deposition
16h15-16h30	ONC2	GUBERNAT M.	Carbon materials modified with silicon – derived nano compounds
16H30-16H45	ONC5	VILATELA J.	Continuous Macroscopic Fibres of CNT for Energy Storage Devices
16h45-17h00	OB1	HOSHIKAWA Y.	Preparation of Monolithic Porous Carbon Electrodes for Immobilization of Redox Enzymes
17h00-17h15	OB3	MAYNE- L'HERMITE M.	Functionalized carbon nanotubes as sensitive layers for BTEX and TIC sensing
17h15-17h30	OB2	BONNAMY S.	Synthesis and characterization of biomimetic carbonated calcium-deficient hydroxyapatite on carbon fiber cloths

17h30-18h00 Award Ceremony

20h00-23h00 Gala dinner cruise on the Hermès restaurant boat.

Thursday 26/10

9h30-10h30 Session 13 chairperson RICCO M.

9h30-10h00	K11G	LODEWYCKX P.	The influence of temperature on the breakthrough time of organic vapours on activated carbon filters
10h00-10h15	OG6	FAROOQ A.	Removal of Hazardous Gases from Air Stream by Impregnated Activated Carbons
10h15-10h30	OG3	CHEBBI M.	Capture of Methyl Iodide by Impregnated Activated Carbons in the Context of Nuclear Industry

10h30-11h00 Coffee Break

11h00-11h45 Session 14 chairperson GADIOU R.

11h00-11h15	OG4	YOSHIKAWA M.	Effect of Pore Size of Activated Carbon Fibers on the Removal of NO _x
11h15-11h30	OG2	PINA RIVEIRO A. C.	Wool Activated Carbon Felt for Carbon Dioxide Capture and Biomethane Obtention
11h30-11h45	OG5	RICCO M.	Hydrogen Absorption in Metal Cluster Intercalated Fullerene

11h45-12h15 Concluding Remarks

12h15-13h15 Lunch

15h Visit of SETARAM Company (optional)