

Sunday, October 18th, 2015

15:00-19:00

Registration

18:00-21:00

Welcome Party in Conference Venue

Monday, October 19th, 2015

9:00-9:20

Opening Ceremony

Session 1

Chair: Elżbieta Frąckowiak

9:20-9:50

Keynote
KN-01

Towards higher voltage supercapacitors for consumer electronics

Jonathan R. Tuck, Marappa Rajendran

9:50-10:10

Oral
presentation
OR-01

Flexible fibre-based supercapacitor for wearable applications

J. Garcia-Torres, C. Crean

10:10-10:30

Oral
presentation
OR-02

Hybridizing the Carbon Electrodes – a Way to Enhance the Supercapacitor Performance

Yurii Maletin, Natalia Stryzhakova, Sergii Zelinskyi, Sergey Chernukhin, Dmytro Tretyakov

10:30-10:50

Oral
presentation
OR-03

Vertically Aligned Carbon Nanotubes (VACNT) materials for ultracapacitor electrodes

M. Porcher, S. Sayah, M. Pinault, F. Ghamouss, A. Boisset, L. Darchy, M. Mayne-L'Hermite, F. Tran-Van, P-H Aubert, P. Boulanger

10:50-11:20

Coffee break

Session 2

Chair: Juan Tascon

11:20-11:50

Keynote
KN-02

Adsorption and Flow Properties of Multi-Scale Disordered Porous Carbons: Application to Shale-Rock Research

R. J.-M. Pelleng

11:50-12:10

Invited talk
INV-01

Comprehensive Characterization of Carbon Pore Structure Using Combined Adsorption Data of N₂, Ar and CO₂ Analyzed by 2D-NLDFT Models

J. Jagiello

12:10-12:30

Oral
presentation
OR-04

Towards a global model for describing the low relative pressure region of water vapour isotherms on porous materials

Leticia F. Velasco, Didier Snoeck, Arn Mignon, Sandra Van Vlierberghe, Peter Dubruel, Nele De Belie, Peter Lodewyckx

12:30-12:50 Oral presentation OR-05 **Synthesis and characterization of hybrid MOF@AC materials for gas storage**
J. Silvestre-Albero, M.E. Casco, J. Fernández-Catalá, M. Martínez-Escandell, E.V. Ramos-Fernández, F. Rodríguez-Reinoso

12:50-14:10 Lunch

Session 3

Chair: De Chen

14:10-14:40 Keynote KN-03 **Carbon Catalysts for Liquid Phase Reactions**
Dangsheng Su

14:40:15:00 Oral presentation OR-06 **Functionalized carbon nanofibers used as support of Pd catalysts: application in the partial 1,3-butadiene hydrogenation reaction**
A. M. García-Minguillán, E. Castillejos, B. Bachiller-Baeza, I. Rodríguez-Ramos, A. Guerrero-Ruiz

15:00-15:20 Oral presentation OR-07 **Fe/MnK-CNT Composite Catalysts for Production of Lower Olefins from Syngas**
Di Wang, Xuezhi Duan, Gang Qian, De Chen, Xinggui Zhou

15:20-15:40 Oral presentation OR-08 **Boosting Performance of Carbon-Supported Pt Catalysts for Fuel Cell Catalysis through Ionic Liquid Modification**
Gui-Rong Zhang, Macarena Munoz, Bastian J.M. Etzold

15:40-16:10 Coffee break

Session 4

Chair: Cristian Contescu

16:10-16:30 Oral presentation OR-09 **Comparison of selected properties of carbon materials obtained with use of conventional Coal Tar Pitch and modified Hard Coal Tar Pitch**
Maciej Gubernat, Katarzyna Kopala, Wilhelm Frohs, Janusz Tomala, Aneta Frączek-Szczypta, Stanisław Błażewicz

16:30-16:50 Oral presentation OR-10 **Activated carbons prepared through H₃PO₄-assisted hydrothermal carbonization from biomass wastes: porous texture and electrochemical performance**
F. Quesada-Plata, R. Ruiz-Rosas, E. Morallón, D. Cazorla-Amorós

16:50-17:10 Oral presentation OR-11 **Biocoal in minutes – Quick and easy source for carbon materials**
Johannes Steinbrück, Leonhard Walz, Henning Bockhorn

17:10-17:30 Oral presentation OR-12 **Valorisation of Pyrolysis Chars like Materials with High-Added Value in Alternative to the Energy Production or Soil Amendment**
M. Dieme, M. Hervy, A. Villot, Y. Andrès, C. Gérente, L. Le Coq and C. K. Diawara

18:30-20:30 Reception in Poznan Town Hall

Tuesday, October 20th, 2015

Session 5

Chair: Grażyna Gryglewicz

8:30-9:00	Keynote KN-04	Substitutionally Boron-Doped Single-Layer Graphene <u>Yoong Ahm Kim, Daun Lim</u>
9:00-9:20	Oral presentation OR-13	Few-layer graphene by pulsed electrochemical exfoliation of fluorinated graphite <u>Nicolas Batisse</u> , Michael Herraiz, Martial Pouzet, Marc Dubois
9:20-9:40	Oral presentation OR-14	Tuning the Structure of Reduced Graphene Oxide under Hydrothermal Treatment Conditions <u>Noel Diez</u> , Bartosz Grzyb, Agata Śliwak, Jacek Machnikowski, Grażyna Gryglewicz
9:40-10:00	Oral presentation OR-15	Modified hydrothermal activation of graphite felts <u>Thomas J. Rabbow</u> , Markus Trampert, Peter Pokorny, Paul Binder, Adam H. Whitehead
10:00-10:20	Oral presentation OR-16	Production of N-rich Carbon Materials from Chitin and Chitosan by Different Activation Methods <u>Anna Ilnicka</u> , Jerzy P. Łukaszewicz
10:20-10:50		Coffee break

Session 6

Chair: Yuriy Maletin

10:50-11:20	Keynote KN-05	Incorporation of Carbon Materials into Energy Storing Textiles Kristy Jost, Genevieve Dion, <u>Yury Gogotsi</u>
11:20-11:40	Oral presentation OR-17	Redox active aqueous electrolyte for preventing the positive carbon electrode of capacitors from oxidation <u>P. Przygocki</u> , Q. Abbas, F. Béguin
11:40-12:00	Oral presentation OR-18	In-situ Gas Release Investigation of Active Carbon Based Supercapacitors with an Aqueous Electrolyte <u>Minglong He</u> , Krzysztof Fic, Elżbieta Frąckowiak, Petr Novák, Erik J. Berg
12:00-12:20	Oral presentation OR-19	Chemically Modified Activated Carbons for Applications in Electrochemical Capacitors <u>Olivier Crosnier</u> , Thierry Brousse, Annaïg Le Comte, Danny Chhin, Alexandre Gagnon, Richard Retoux, Joël Gaubicher and Daniel Bélanger
12:20-12:40	Oral presentation OR-20	No sulfur, no fluorine, no chlorine: Green binders with high mechanical strength and excellent electrochemical performance Mesut Aslan, Daniel Weingarth, <u>Volker Presser</u>

12:40-14:00

Lunch

Session 7		Chair: Roland Pellenq
14:00-14:30	Keynote KN-06	Removal of Gaseous Pollutants from Air Using Hybrid Sorbent Materials <u>Jacek Przepiórski</u> , Adam Czyżewski, Joanna Kapica
14:30-14:50	Invited talk INV-02	Activated Carbon Xerogels Derived from Glucose-Graphene Oxide Hybrids and their Performance Toward Carbon Dioxide and Dye Adsorption F. J. Martín-Jimeno, F. Suárez-García, J. I. Paredes, A. Martínez-Alonso, <u>J. M. D. Tascón</u>
14:50-15:10	Invited talk INV-03	Advanced characterization of activated carbons by means of water vapour sorption coupled with n-octane preadsorption Leticia F. Velasco, Inna Berezovska, <u>Peter Lodewyckx</u>
15:10-15:30	Oral presentation OR-21	Looking at the Double Layer made from Aqueous Electrolytes and Microporous Carbon Monoliths <u>J.M. Rojo</u> , A. Garcia-Gomez, V. Barranco, M. Kunowsky, A. Linares-Solano, J. Ibañez, G. Moreno-Fernandez, I. Aldama and M. King
15:30-15:50	Oral presentation OR-22	Hydrogen storage in alkali-cluster intercalated fullerides <u>Mattia Gaboardi</u> , Chiara Milanese, Giacomo Magnani, Daniele Pontiroli, Mauro Riccò
15:50-16:20	Coffee break	
Session 8		Chair: Yoong Ahm Kim
16:20-16:50	Keynote KN-07	Carbon – based nanostructures and their potential applications in photovoltaics <u>Michael Giersig</u>
16:50-17:10	Oral presentation OR-23	Electrochemically modified carbon felts with enhanced electrochemical activity for vanadium redox flow battery P. Mazur, <u>J. Povedic</u> , J. Vrana, J. Dundalek, J. Kosek
17:10-17:30	Oral presentation OR-24	Development of Advanced LIC in the Energycaps project <u>V. Khomenko</u> , V. Barsukov, O. Chernysh, I. Makyeyeva, S. Isikli and F. Gauthy
17:30-17:50	Oral presentation OR-25	Graphene template for pre-seeding preparation of flattened Sn sheets for high-performance lithium ion batteries <u>Zhengjie Li</u> , Wei Lv, Baohua Li, Feiyu Kang and Quan-Hong Yang
17:50-20:00	Poster session and drinks	

Wednesday, October 21st, 2015

Session 9

Chair: Yury Gogotsi

8:30-9:00 *Keynote*
KN-08 **Hierarchical porous carbon materials for Supercaps and Lithium Sulfur Batteries**
Stefan Kaskel

9:00-9:20 *Oral presentation*
OR-26 **Densifying graphene for high volumetric performance energy storage**
Quan-Hong Yang

9:20:9:40 *Oral presentation*
OR-27 **Visualizing the roles of graphene for excellent lithium storage**
Xu-Yi Shan, Guangmin Zhou, Li-Chang Yin, Wan-Jing Yu, Feng Li, Hui-Ming Cheng

9:40-10:00 *Oral presentation*
OR-28 **Crystalline SnO₂ nanoparticles confined in mesoporous carbon as highly performing anode for Na ion batteries**
Ali Jahel, Ali Darwiche, Cristina Pana, Camélia Matei Ghimbeu, Cathie Vix-Guterl, Laure Monconduit

10:00-10:20 *Oral presentation*
OR-29 **Cation vs. Anion Intercalation into Carbonaceous Materials for Electrochemical Energy Storage**
Tobias Placke, Olga Fromm, Andreas Heckmann, Paul Meister, Kolja Beltrop, Jessica Hüsker, Martin Winter

10:20-10:50 *Coffee break*

Session 10

Chair: Teresa Bandoz

10:50-11:20 *Keynote*
KN-09 **A glance at the photochemical response of nanoporous carbons for the conversion of light into chemical reactions**
Conchi O. Ania, Alicia Gomis-Berenguer, Jesús Iniesta, Joao C. Lima, Leticia F. Velasco

11:20-11:40 *Oral presentation*
OR-30 **Carbon onions for supercapacitor and pseudocapacitor electrodes**
Marco Zeiger, Daniel Weingarth, Volker Presser

11:40-12:00 *Oral presentation*
OR-31 **A perspective on recent developments in capacitive deionization**
Matthew E. Suss, S. Porada, P.M. Biesheuvel, V. Presser

12:00-12:20 *Oral presentation*
OR-32 **The Potentiality of Ionic Liquids for Carbon Supercapacitors**
Ann Laheäär, François Béguin

12:20-12:40 *Oral presentation*
OR-33 **Formulation of Ionic Liquid Electrolyte to Expand the Voltage Window of Supercapacitors**
Katherine L. Van Aken, Majid Beidaghi, Yury Gogotsi

12:40-14:00 *Lunch*

Session 11		Chair: José Luis Figueiredo
14:00-14:30	Keynote KN-10	How to make carbon supports more versatile in catalysis <u>De Chen</u>
14:30-14:50	Oral presentation OR-34	N-doped Carbon Nanotubes: Investigation of the Nitrogen Active Sites for Oxygen Reduction Reaction <u>Inês M. Rocha</u> , Olívia Salomé G.P. Soares, Diana M. Fernandes, José L. Figueiredo, Cristina Freire, M. Fernando R. Pereira
14:50-15:10	Oral presentation OR-35	Easy ball milling method to prepare N-doped carbon nanotubes for advanced oxidation processes O.S.G.P. Soares, R.P. Rocha, A.G. Gonçalves, J.L. Figueiredo, J.J.M. Órfão, <u>M.F.R. Pereira</u>
15:10-15:30	Oral presentation OR-36	Using Nanodiamonds for Enhancing the Activity of Benzonitrile towards Hydrazine <u>Neeraj Gupta</u> , Dangsheng Su
15:30-16:00		Coffee break
Session 12		Chair: Stefan Kaskel
16:00-16:20	Invited talk INV-04	Graphite for Clean Nuclear Energy <u>Cristian I Contescu</u> , Nidia C Gallego, Lauren R Olasov, Fan W Zeng, Karen Han, James Spicer
16:20-16:40	Oral presentation OR-37	Fluorination mechanisms of graphite oxides: multinuclear ^{13}C, ^{19}F, ^1H MAS-NMR study <u>Maïmonatou Mar</u> , Nicolas Batisse, Marc Dubois, Katia Guérin, Bernard Simon, Patrick Bernard
16:40-17:00	Oral presentation OR-38	Modeling studies of carbon nanostructures and its experimental verification using diffraction method <u>Karolina Jurkiewicz</u> , Andrzej Burian
17:00-17:20	Oral presentation OR-39	Electron Paramagnetic Resonance of Different Nano-Carbons <u>Wojciech Kempieński</u> , Damian Markowski, Mateusz Kempieński, Szymon Łoś
18:00		Bus for the conference dinner
19:00-22:30		Conference dinner

Thursday, October 22nd, 2015

Session 13

Chair: Stanisław Błażewicz

9:00:9:30	Keynote KN-11	Nanoporous Carbons as Toxic Gas Sensors: Effect of Surface Features on Sensing Mechanism <u>Teresa J. Bandosz</u> , Nikolina A. Travlou, Mykola Seredych, Enrique Rodriguez-Castellon
9:30:9:50	Invited talk INV-05	Carbon-Polymer Composites for Medical Applications <u>Sergey Mikhailovsky</u> , Talgat Nurgozhin, Alma Akhmetova, Iain Allan, Matt Illsley, Irina Savina
9:50:10:10	Oral presentation OR-40	Carbon-coated metallic magnetic nanoparticles for application on bioremediation <u>O.S.G.P. Soares</u> , P.S.F. Ramalho, L. Pereira, P. Dias, M.M. Alves, M.F.R. Pereira
10:10:10:30	Oral presentation OR-41	Impact of the pollutant carbon nanomaterials on living organisms. Nanodiamonds, and graphene oxide <u>M.A. Augustyniak-Jabłokow</u> , J. Karpeta-Kaczmarek, M. Dzięwiecka, A. Płachetka, J. Francikowski, R. Strzelczyk, Ł. Majchrzycki, A. Skóra, M. Augustyniak
10:30:11:00		Coffee break

Session 14

Chair: Volker Presser

11:00:11:20	Invited talk INV-06	Porous Glassy Carbon as Electrode Material Matrix <u>Andrzej Czerwiński</u>
11:20-11:40	Oral presentation OR-42	Electrocatalytic activity of epitaxial graphene <u>P. Szroeder</u> , M. Walczyk, J. Strzeleki, W. Strupinski, and P. Ciepielewski
11:40-12:00	Oral presentation OR-43	Adsorption of micropollutants onto activated carbon fabric and felt S. Masson, L. Reinert, S. Guittonneau, <u>L. Duclaux</u> , M. Gineys, S. Delpeux, C. Vaulot, R. Gadiou
12:00-12:20	Oral presentation OR-44	Reversible adsorption of water contaminants on activated carbon cloths <u>Mickaël Gineys</u> , Nathalie Cohaut, François Béguin, Sandrine Delpeux-Ouldriane
12:20-12:40	Oral presentation OR-45	Electrochemical corrosion of carbon disc electrodes under the conditions of electrocatalytic water splitting: acidic vs. alkaline media <u>Youngmi Yi</u> , Sylvia Reiche, Robert Schlögl
12:40-13:00		Concluding remarks
13:00-14:20		Lunch