

 **CARBON 2015**

INNOVATION WITH CARBON MATERIALS

Hosted by the
German Carbon Group:



Program

The Annual World Conference on Carbon
Dresden, Germany
July 12 – 17, 2015

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WELCOME

to **CARBON 2015**,
The Annual World Conference on Carbon
Dresden, Germany | July 12 – 17, 2015

IN THE NAME OF THE GERMAN CARBON GROUP (AKK) I would like to cordially welcome you in Dresden for the Annual Conference on Carbon 2015. The triennial sequence between the Americas, Asia and Europe started with the Annual World Conference 2000 in Berlin. We are convinced that Dresden is a distinguished place to host this conference in one row with Berlin and formerly the cities of Essen and Baden-Baden. Dresden is a city with a rich historical background, famous for its baroque architecture and the amorous adventures of the former King of Saxony and Poland August “the Strong”. Dresden was severely destroyed at the end of World War II, and later suffered during the communist time. After the reunification of Germany in 1990, many buildings have been restored and Dresden regained its ancient splendor.

The motto of this year’s conference is “Innovation with Carbon”. This implies the wish that academic researchers and the carbon and graphite industry may intensify their cooperation and support each other in the path from idea to successful marketing in cur-

rent and future fields of carbon materials. The number of submitted papers was 626. Thereof 25% dealt with the topic of carbon for energy storage, and 17% with nanoforms of carbon. Industrial papers represented 4% only. Energy storage is without doubt one of the crucial fields for the coming human generations. However, none of the industrial players in this field is represented in the conference. The World Carbon Council may consider this fact for the organization of the coming World Carbon Conferences to strengthen the attractiveness of this conference.

The German Carbon Group thanks all sponsors for their financial support. The organization of this conference is always a financial challenge for the national carbon groups. This issue may also be discussed by the World Carbon Council.

The organization committee wishes all participants a week of interesting presentations and discussions, but also an enjoyable time in Dresden. Thank you for your participation which makes this conference a success.

For the German Carbon Group (AKK)
Wilhelm Frohs
 PRESIDENT

COMMITTEES

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Wolfgang Klose
Board Member of the German Carbon Group

Wilhelm Frohs
Chairman Organizing Committee CARBON 2015
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SGL Carbon GmbH, Germany

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General Manager
Deutsche Keramische Gesellschaft e. V.

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ORGANIZERS



AKK – Arbeitskreis Kohlenstoff

GERMAN CARBON GROUP

The AKK is an independent group within the German Ceramic Society (Deutsche Keramische Gesellschaft e. V., DKG) and in the European Carbon Association (EAC). Its task is the exchange of experience and information in the field of carbon between science and practice. In the AKK statute, professional exchange, the discussion of future research topics, and the support of research on carbon are named as the main objectives of the working group.

Each year in spring and fall, meetings are held, as well as an annual general meeting. The meetings are thematically connected to current challenges for the carbon industry in research and practice, such as “Gas-

Phase Processes of Carbons“ or „Carbon Materials in Functional Polymers“. The AKK also represents the producing German carbon industry on international conferences.

The AKK currently has three working groups:

- Characterization and Terminology – The technical group characterizes new carbon compounds and develops a suitable terminology
- Raw materials: Solids and Binders – Ring tests, the discussion on solids and binders, and work in standardization characterize the group's work
- New forms of carbon – The use of novel forms of carbon is the main focus of the group



DKG - Deutsche Keramische Gesellschaft e. V.

GERMAN CERAMIC SOCIETY

The DKG is the oldest association for ceramic professionals and for the ceramic industry in Europe since 1919. Its predecessor organization was founded already in 1913. Today, the DKG has more than 250 institutional and 650 personal members. This makes it the largest ceramic organization in Europe and a leading member of the European Ceramic Society (ECerS). It also cooperates with other international ceramic organizations, such as the American, Brazilian, Indian and Italian Ceramic societies.

The DKG promotes research on new materials, products, and market development. Bringing together ceramic industry and scientific institutions, it supports the cooperation and the development of the research community. Annually, more than 40 seminars, forums, workshops, symposia, and exhibitions are organized by the DKG and its members. The DKG also publishes the association journal “cfi Ceramic Forum International/Ber. der DKG” and the “Journal of Ceramic Science and Technology”.

TOPICS AND PLENARY LECTURES

The topics of CARBON 2015 cover the whole range of research on and the application of carbon, and so do the plenary lectures. They represent the motto of this year's conference: **INNOVATION WITH CARBON MATERIALS.**

Topics

Activated Carbon and Adsorption

Biomass-derived Carbons

Carbon Blacks

Carbon Fibers and Composites

Carbon Materials for Energy Storage

Granular Carbon and Graphite/
Nuclear Graphite

Industrial Carbon and Graphite

Nanoforms of Carbon

Natural Graphite

Conversion Processes

Physical and Chemical Properties and
Characterization

Environmental and Medical Applications

Plenary Lectures



Hubert Jäger, Roland Weiss:

“The Carbon Fibre Age – Markets & Application, Today and Tomorrow”



Malcolm Heggie:

“Graphite – a remarkable and complex material analysed ab initio”



Masayuki Kawaguchi:

“Carbon Alloys in Energy Systems”



Rodney Taylor:

“Carbon Black: A New Look at an old Nanomaterial”

PLENARY SPEAKERS' CV

Professor Malcolm Heggie

Professor Malcolm Heggie studied physics and chemistry at the University of Exeter, UK, and completed his PhD in theoretical physics in 1982. He stayed at Exeter University for the following 14 years, becoming first a Postdoctoral Research Fellow, then Industrial Research Fellow, and finally Senior Research Fellow in computer science. From 1996, Heggie worked as a Lecturer, Reader and Professor in theoretical chemistry at Sussex University. Since 2012, he has been Professor of Physical and Computational Chemistry at Surrey University. Professor Heggie is also the founder of NanoteC, one of the longest-running series of international nanoscale carbon conferences in Europe, which he started in 1998. He is Chairman of the British Carbon Group and Fellow of the Royal Society of Chemistry, where he won special recognition awards in 2005 and 2008. Professor Heggie has published a remarkable number of essays in academic journals and handbooks, such as *The Physical Review B*, *Journal of Nuclear Materials*, *Diamond Materials* or the *Handbook of Ceramic Hard Materials*. At the conference, Mr. Heggie will speak about the material graphite and the modern method of ab initio calculation, which gives us the possibility to take a closer look at the energetics and dynamics of the material.

Professor Dr. rer. nat. Hubert Jäger

Professor Hubert Jäger graduated from the University of Karlsruhe, Germany and wrote his PhD thesis on the impact performance of carbon fibre reinforced polymers. He started his career in 1986 as a manager for raw materials at the pilot plant in Meitingen, Bavaria, entering SIGRI, a predecessor of today's SGL Group. Since then, Professor Jäger has been holding a number of operative and technological executive positions within SIGRI and the SGL Group, concentrating on the fields of cathodes and graphite electrodes. Since 2005, he has been head of SGL's Group research „Technology and Innovation“, building an ultra-modern research infrastructure at the site of Meitingen. Professor Jäger promotes close networking between industry, science and research. In his country, he holds important positions in various relevant societies inside the industry. He is for example Spokesman of the Management Board of the Institute of Lightweight Engineering and Polymer Technology at the Technische Universität Dresden and President and Chief Executive Officer at the Carbon Composites e. V.

At Carbon 2015, Professor Jäger will give a lecture together with Dr. Roland Weiß. Their topic is the significance of lightweight carbon composite materials in the context of an efficient use of energy. They will name examples for the use of those materials and give an insight into the most recent research results.

Professor Masayuki Kawaguchi

Professor Kawaguchi finished his PhD thesis in the field of engineering at Kyoto University in 1984. For the following ten years, he worked as Researcher and Chief Researcher in the service of Central Glass Co. Ltd., Japan, before starting his career at Osaka Electro-Communication University. Here, he first became Lecturer, then Associate Professor and Professor in his field. Mr. Kawaguchi still teaches at Osaka Electro-Communication University. From 2005, the professor was and still is Chairman of various relevant societies, such as the Society of Graphite Compounds and the 117th Committee of the Japan Society for the Promotion of Science (JSPS). In 2012, he won an academic award from the Carbon Society of Japan. In his lecture at Carbon 2015, Professor Kawaguchi will focus on hetero-atom substituted carbon alloys, particularly Boron, Carbon and Nitrogen, and their role in our energy system.

Dr. Rodney L. Taylor

While he wrote his PhD thesis on Material Science at the Pennsylvania State University, Mr. Taylor already started working as a Research Chemist for the Columbian Chemicals Company, serving the Senior Vice President R&D and the department of Business Development. He stayed with Columbian Chemicals for almost 30 years, focusing on carbon black additives. In 2009, Dr. Taylor left Columbian Chemicals, but continued working and researching in the field of carbon black. Taylor worked for Sid Richardson Carbon and Energy, where he was in charge of special projects, before he became Director of Carbon Product Development at Atlantic Hydrogen and, in 2013, Vice President Process Development and Innovation at Orion Engineered Carbons in Cologne, Germany. Dr. Taylor is also Chairman of the American Carbon Society.

At Carbon 2015, Dr. Taylor's topic will be the business of carbon black and its principle method of manufacture. Despite the long-term commercial use of the material, the advantages of carbon black are not widely appreciated.

Dr. Roland Weiß

Dr. Roland Weiß studied chemical science at the University of Karlsruhe and wrote his PhD thesis on the characteristics of the fibre/matrix-interface of carbon-fibre-reinforced polymeric compound parts. Since 1984, he has been Head of the Chemical Laboratory at Schunk Kohlenstofftechnik in Heuchelheim, Germany. Since 1988, he has also been Head of the Department of Composites at Schunk Kohlenstofftechnik. Dr. Roland Weiß researches and publishes in the fields of ceramic composites and new forms of carbon. He is Chairman of the Managing Board of Ceramic Composites e. V. and Chairman of the study group „New Forms of Carbon“ in the German Carbon Group.

At the conference, Dr. Weiß will give a lecture on the Carbon Fibre Age, together with Professor Jäger.

SOCIAL AND ACCOMPANYING ACTIVITIES

Welcome Reception

SUNDAY, 12 JULY 2015 06:00 - 09:00 PM

We would like to welcome you on Sunday in the conference center to offer everyone an opportunity to get to know each other better already one day before the official opening of CARBON 2015. Finger food and drinks will be offered.

Conference Dinner

THURSDAY, 16 JULY 2015, 07:30 - 11:30 PM

The Conference Dinner will take place at the castle of Proschwitz. Proschwitz castle is located in the region of Meissen, famous for its porcelain. Today's owner is again the family of Lippe, one of the oldest noble houses in Germany. Prince Georg of Lippe and his wife Alexandra Princess of Lippe will welcome us at the opening of the Conference Dinner. To the cas-

tle belongs the oldest private vineyard of Saxony. During the Conference dinner we have the opportunity to taste local wines but also beer in a cheerful environment accompanied by performances of local artists.

Transportation to Proschwitz Castle will be provided by busses departing at the Conference Centre from 6:00 pm and going back at night.

Scientific Friday

FRIDAY, 17 JULY 2015, 08:45 - 12:00 AM

On Friday, July 17, 2015, several scientific research institutes can be visited. Registration for the Science Day will take place on site. **Transportation to the sites will be provided by bus in a round trip. Buses depart from the Conference Centre at 08:45 am.**

→ **Dresden University's Institute of Lightweight Engineering and Polymer Technology (ILK):** The ILK focuses on research, education and development in the field of modern lightweight engineering. Its activities stretch from research into fundamental concepts to application-oriented and innovation-driven development projects in cooperation with industrial partners. ↗ www.tu-dresden.de/mw/ilk

→ **Fraunhofer Institute for Ceramic Technologies and Systems (IKTS):** The IKTS conducts application-oriented research in the field of high-performance ceramics. It is one of the largest institutions for ceramics research in Europe and focuses on ceramic materials, manufacturing processes, prototype components and systems. ↗ www.ikts.fraunhofer.de

→ **Leibniz Institute of Polymer Research (IPF):** The IPF is among largest polymer research facilities in Germany. Its activities comprise basic research on functional polymer materials and the development of materials with new or improved characteristics, as well as combining material development with production and processing technologies. ↗ www.ipfdd.de

Conference Fair

The conference fair is held in the foyer of the congress center, accompanying the conference. 12 exhibitors will be presenting their developments and innovations in the field of carbon.

AWARDS

Brian Kelly Award

The award is intended as a travel grant for students and early career researchers with up to ten years postdoctoral experience to attend the annual International Carbon Conference.

THE AWARD GOES TO DR. GRAHAM RANCE

Carbon Journal Prize 2015

The journal Carbon and its publisher Elsevier will once again be awarding the Carbon Journal Prize, which will be announced at the International Carbon Conference. The prize is given for “an outstanding Ph.D. thesis in carbon material science and technology” in 2014.

TO BE ANNOUNCED DURING CARBON 2015

ECA Award 2015

The award is given according to the recommendation of the ECA Award Committee and seeks to honor “Remarkable service to carbon science community” with the recipient holding the respect of their colleagues and “having been influential and supportive towards others in the pursuit of scientific excellence or having made a significant contribution in providing a strong foundation to the community of carbon scientists and technologists in order to promote a flourishing and healthy environment for scientific achievement”.

THE AWARD GOES TO PROF. MAURIZIO PRATO

Utz-Hellmuth Felcht Award

Honored will be outstanding scientific and technological contributions in the field of carbon materials and related materials. This comprises polygranular carbon and graphite materials, carbon fibers and their composites, applications of carbon and graphite in energy production, energy storage and energy savings, nanoforms of carbon and breakthroughs in manufacturing and new applications. Quintessential contributions in computer modeling of these materials will be considered as well. In general, the award will honor a single scientific and technological contribution which provided recent impact of significance on manufacturing and application or has the character of a breakthrough in science. The Utz-Hellmuth Felcht Award is presented biennially on the occasion of the International Carbon Conferences. The selection of the awardees is dedicated to an International Award Committee composed of six renowned scientists and persons of high standing in the carbon industry.

THE AWARD GOES TO PROF. DR. HUI-MING CHENG

PROG

GRAM

SUNDAY,

12TH JULY

2015

14:00-18:00

Conference registration
International Congress Center Dresden

14:00-18:00

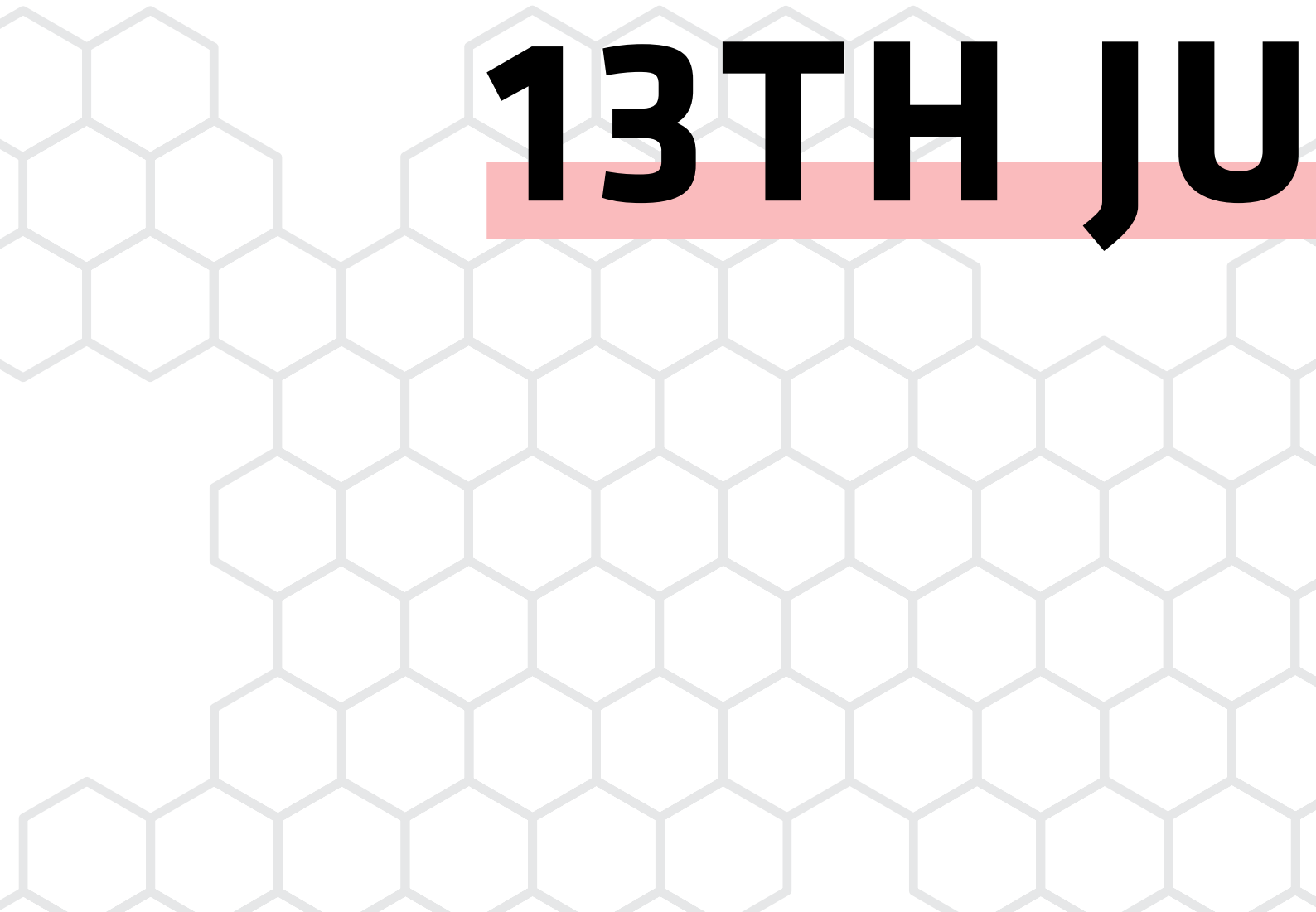
Construction Conference Exhibition
Hall 1-4/Saal 1-4
International Congress Center Dresden

18:00-21:00

Welcome Reception
Terrace/Terrassenebene
International Congress Center Dresden

MON

13TH JU



DAY, LY 2015



08:00–09:00

Conference Registration

08:45–09:00

Opening Remarks
Great Hall/Großer Saal

09:00–10:00

PLENARY LECTURE I

The Carbon Fibre Age—Markets & Application, Today and Tomorrow
JÄGER, Hubert / WEISS, Roland

Chairman

KYOTANI, TAKASHI

JAPAN

Room

Great Hall/Großer Saal

10:00–10:30

C O F F E E B R E A K

**ENERGY
STORAGE****PHYSICAL
AND CHEMICAL
PROPERTIES****NANOFORMS****GRANULAR AND
NUCLEAR CARBON**

Chairman	FRACKOWIAK, Elzbieta POLAND Great Hall Großer Saal	RADOVIC, Ljubisa R. UNITED STATES Conference Room 6 Konferenzraum 6	HURT, ROBERT UNITED STATES Conference Rooms 4/5 Konferenzräume 4/5	GARRET NEIGHBOUR UNITED KINGDOM Conference Rooms 2/3 Konferenzräume 2/3
10:40-11:00	Na and Li ion storage properties of Phosphorus molecules inserted in single-walled carbon nanotube hollow cores KAWASAKI, Shinji JAPAN	Incorporation of Nitrogen Atoms from Precursors into the Graphene Lattice of Carbon Materials by Solid State and Gas Phase Routes SACHDEV, Herman GERMANY	The Role of Functionalisation in the Graphene Supply Chain STIRLING, Chris UNITED KINGDOM	Identification of Isolated rhombohedral crystallites in graphite blocks and study of its formation mechanism by using HRTEM He, Lian Long CHINA
11:00-11:20	Interfacial lithium-ion transfer reaction between graphite negative electrode and sulfide-based solid electrolyte in all-solid-state lithium secondary batteries FUKUTSUKA, Tomokazu JAPAN	Adsorption and phase behavior of water in ordered nanoporous carbons THOMMES, Matthias UNITED STATES	Progress in Graphene Materials Application CENTENO, Alba SPAIN	Multi-scale modelling of neutron irradiation damage in graphite TREVETHAN, Thomas UNITED KINGDOM
11:20-11:40	Improving the microstructure and electrochemical performance of carbon nanofibers containing graphene-wrapped silicon nanoparticles as a Li-ion battery anode KIM, Bo Hye SOUTH KOREA	Characterization of a zeolite-templated carbon by in situ Raman spectroscopy LEYVA-GARCIA, Sarai SPAIN	Synthesis of sintering-resistant platinum catalysts using graphene oxides OGINO, Isao JAPAN	Structure: property relationships in models of nuclear graphite HEGGIE, Malcolm UNITED KINGDOM
11:40-12:00	Stable, High Capacity Carbon-Silicon Anodes for Li-ion Batteries Using Directed Assembly BOSE, Arijit UNITED STATES	Carbon tetrakaidehedra lattices CELZARD, Alain FRANCE	Production of few-layer graphene from carbon singular raw materials by shear exfoliation GONZÁLEZ, Zoraida SPAIN	Petroleum pitches as binders for fine grained molded carbon artifacts PEREIRA, Maria Helena BRAZIL
12:00-12:20	"Metal nanoconfinement" in porous carbons: an valuable concept toward highly performing electrode materials for Li+ ion batteries MATEI GHIMBEU, Camelia FRANCE	Flame Retarding Effect of Graphite in Polyethylene FOCKE, Walter SOUTH AFRICA	A continuous process on mass production of multi-layered graphene and their relative applications on functional coating Wu, Ting-Yu TAIWAN	Simulation of Radiation Damage in Graphite using Molecular Dynamics MARKS, Nigel AUSTRALIA
12:20-13:50	L U N C H			

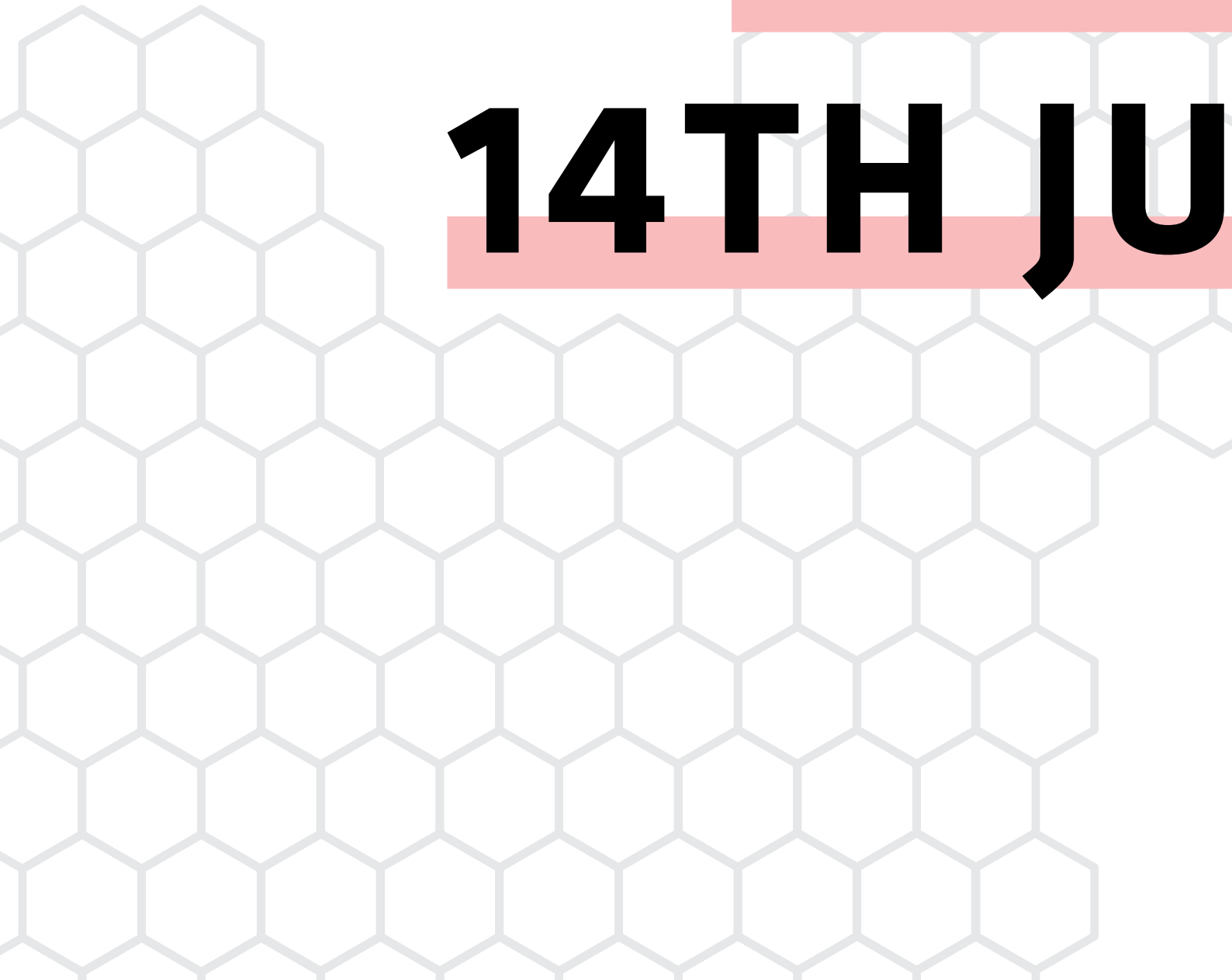
	<u>ENERGY STORAGE</u>	<u>PHYSICAL AND CHEMICAL PROPERTIES</u>	<u>NANOFORMS</u>	<u>GRANULAR AND NUCLEAR CARBON/ NANOFORMS</u>
Chairman	BEGIN, FRANCOIS POLAND	MALCOLM HEGGIE UNITED KINGDOM	DEPINE DE CASTRO, Luiz BRAZIL	TREVETHAN, Thomas UNITED KINGDOM
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
14:00–14:20	Performance and optimization of a flow capacitor under continuous flow operation LEE, Juhan GERMANY	The lowest molecular weight PAH to form liquid crystalline mesophase: a monodisperse pyrene trimer THIES, Mark UNITED STATES	One-pot process to synthesize reduced graphene oxides / metal nanowires hybrid materials for the preparation of flexible transparent conductive films TAI, Nyan-Hwa TAIWAN	Fracture energy analysis of isotropic graphite materials SAITO, Yosuke JAPAN
14:20–14:40	Hierarchical structure design of porous carbon-based composites for high-performance anodes of lithium-ion batteries LI, Baohua CHINA	Mapping particles for applications using surface energy NIKOVA, Ani UNITED STATES	Approaches to hierarchical and hybrid graphene-based materials STRIDE, John AUSTRALIA	Photodegradation of phenol and methylene blue on mesoporous graphitic carbon nitride mpg-C₃N₄ under artificial solar light irradiation MATOS, Juan CHILE
14:40–15:00	Flexible, Binder-Free Graphene Paper Electrodes for High-Performance Lithium Rechargeable Batteries PARK, O Ok SOUTH KOREA	Intercalation of gold thin layers into graphite Van der Waals's nanospaces HEROLD, Claire FRANCE	Explosive and non-explosive modes of graphite oxide thermal exfoliation and its safety implications KULAOTS, Indrek UNITED STATES	Measurement Device for Aluminum Wettability of Carbon & Graphite Materials used in Electrolysis Cells SCHMITT, Rainer GERMANY
15:00–15:20	High-Capacity Carbon-Silicon Nanocomposite Anodes for Next-Generation Lithium-Ion Batteries: An Industrial Perspective KETTERER, Bernt GERMANY	Determination and tuning of Young's modulus modification in ion-implanted diamond BATTIATO, Alfio ITALY	The effect of the support in the catalytic activity of iridium NHC complexes covalently bonded to carbon nanotubes and graphene oxide ALVAREZ, Patricia SPAIN	Thermal Transport in Three dimensional Carbon Nanomaterial Networks PRAKASH, Vikas UNITED STATES
15:20–15:40	Alternatives to lithium in graphene based ion batteries PONTIROLI, Daniele ITALY	Role of defects on superstructures revealed by STM on highly oriented pyrolytic graphite (0001) CISTERNAS, Eduardo CHILE	Intercalation route to conductive graphene films MONTHIOUX, Marc FRANCE	Light-assisted synthesis of ordered carbon materials MATEI GHIMBEU, Camelia FRANCE
15:40–16:10	C O F F E E B R E A K			

**ENERGY
STORAGE****ENVIRONMENTAL
AND MEDICAL****NANOFORMS****ACTIVATED
CARBON**

Chairman	KAWAGUCHI, Masayuki JAPAN	BLAZEWICZ, Stanislaw POLAND	YARDIM, Mehmet Ferhat TURKEY	KLOSE, Wolfgang GERMANY
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
16:20–16:40	Design Carbon / Surfur for high performance lithium sulfur batteries LI, Feng CHINA	Toxicity evaluation in Xenopus laevis tadpoles exposed to carbon based nanoparticles under normalized conditions FLAHAUT, Emmanuel FRANCE	Template synthesis of porous graphene electrodes having large surface area and high resistance to electrochemical oxidation KYOTANI, Takashi JAPAN	Graphene vs. activated carbons in liquid-phase adsorption: any fundamental improvements? RADOVIC, Ljubisa R. UNITED STATES
16:40–17:00	Nanoporous carbon / graphite hybrid capacitors using sacrificial lithium derivatives for pre-lithiation of the graphite anode BEGUIN, François POLAND	Coating of nanoporous activated carbon for improved haemocompatibility MIKHALOVSKY, Sergey KAZAKHSTAN	On the synthesis of carbon nanofibers by microwave heating SCHWENKE, Almut GERMANY	Adsorption of Organochlorinated Insecticides on the Surface of Cyclodextrin Attached Activated Carbon and Graphene Hybrids RANA, Vijay Kumar SWITZERLAND
17:00–17:20	Design of carbonaceous materials for enhanced electrochemical performances of silicon/carbon composite nanofiber lithium-ion battery anode LEE, Byoung-Sun SOUTH KOREA	Removal of phenol contaminant from wastewater by the fabricated carbon nanotube membrane SADEGHIANZ, Zahra IRAN	Controlling Defects and Morphology of Nanotubes and Graphene during Growth: The Role of Dopants TERRONES, Mauricio UNITED STATES	Modelling the influence of the operating conditions upon the kinetics parameters in the adsorption of lead(II) LARGITTE, Lucie FRANCE
17:20–17:40	Carbon Materials and Processing Techniques for Lithium Sulfur Batteries KASKEL, Stefan GERMANY	Synergizing carbon: Eumelanin / Graphene-like hybrid as promising candidate for applications in Bioelectronics and Nanomedicine ALFE, Michela ITALY	Porous Carbons with Defined Nanostructures LU, An-Hui CHINA	Advanced Characterization of Nanoporous Carbons by, High-pressure ^{129}Xe-NMR, n-Nonane PreadSORption, and Thermal Response Measurements OSCHATZ, Martin GERMANY
17:40–18:00	Synthesis and electrochemical performance of mesoporous carbon materials prepared by SiO_2 template as anode material for lithium-ion batteries SONG, Huaihe CHINA	Growing of carbon nanofibers and carbon nanotubes inside of porous tubular substrates for application in membrane technology SIMON, Adrian GERMANY	Facile synthesis of novolac phenolic based hierarchical carbon aerogels by ambient pressure drying JIA, Xianfeng CHINA	Control of crystallinity and pore structure of mesoporous carbons derived from MgO template process under high temperature condition NAKAZONO, Tomoya GERMANY
18:00–18:20	Ion milling as essential tool for the characterization of carbon-based electrodes in Lithium Ion Batteries MÜLLER, Marcus GERMANY	Influence of biochar characteristics upon the photodegradation of methylene blue under UV-Visible irradiation MATOS, Juan CHILE	Evolution of soot nanostructure in premixed hydrocarbon flames PRE, Pascaline FRANCE	Effect of processing parameters on properties of activated carbon from oil-palm shell with sodium hydroxide impregnation AUSSAWASATHIEN, Darunee THAILAND

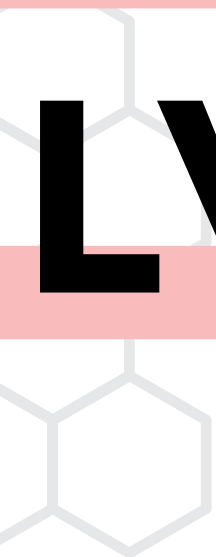
TUES

14TH JU



S DAY,

LY 2015



	<u>ENERGY STORAGE</u>	<u>PHYSICAL AND CHEMICAL PROPERTIES</u>	<u>CF AND COMPOSITES</u>	<u>ACTIVATED CARBON</u>
Chairman	OZAKI, Jun-ichi JAPAN	MUKAI, Shin JAPAN	KÖCHLING, Karl-Heinz GERMANY	NEUBAUER, York GERMANY
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
08:40–09:00	Electrochemical degradation of carbonaceous materials in aqueous and inorganic electrolytes MIYAZAKI, Kohei JAPAN	Adsorption measurements in 5 minutes WOELLNER, Michelle GERMANY	Carbon fibre surface enhancement using novel organic chemistry techniques: toward new generation materials SERVINIS, Linden AUSTRALIA	Is sustainable manufacturing of activated carbon possible? ARENA, Noemi UNITED KINGDOM
09:00–09:20	Use of Graphite as a Highly Reversible Electrode with Superior Cycle Life for Sodium-Ion Batteries by Making Use of Co-Intercalation Phenomena ADELHELM, Philipp GERMANY	Surface characteristics using XPS analysis of chemical pre-treated MWCNTs doped with O and N functional groups within a plasma process PRENZEL, Marina GERMANY	Tailor-designed Phenolic Resins as C-Precursors applied in Liquid Silicon Infiltration (LSI) Process FRIESS, Martin GERMANY	Adsorption of Aurocyanide Ion [Au(CN)₂⁻] on Activated Carbon: Transmission Electron Microscopy and Density Functional Theory Computational Studies YIN, Chun-Yang UNITED KINGDOM
09:20–09:40	Peculiar properties of mesoporous synthetic carbon / graphene phase composites and their effect on supercapacitive performance SEREDYCH, Mykola UNITED STATES	Computational analysis of boron-containing graphene using X-ray photoelectron spectroscopy YAMADA, Yasuhiro JAPAN	The structure-spinnability relationship of mesophase pitch – the precursor of highly thermal conducting carbon fiber GONG, Xiaoyi CHINA	Controlled synthesis of PdxCo nanoalloys confined in ordered carbons: Influence of metal particle size and composition on hydrogen interactions MATEI GHIMBEU, Camelia FRANCE
09:40–10:00	Tracking global and local ion re-arrangement in carbon based supercapacitors using in-situ X-ray methods PREHAL, Christian AUSTRIA	Synthesis of air-stable and highly electrically conductive graphite intercalation compounds MATSUMOTO, Rika JAPAN	Carbon based and graphene analogues (layered MoS₂) hybrid nanocomposites CRAVANZOLA, Sara ITALY	Adsorption of phenol on the carbon surface from various solvents SOLDATOV, Aleksandr RUSSIA
10:00–10:30	C O F F E E B R E A K			
10:30–11:30	<u>PLENARY LECTURE II</u>			
	Graphite—a remarkable and complex material analysed ab initio			
	HEGGIE, Malcom UNITED KINGDOM			
Chairman Room	Hurt, Robert Großer Saal/Great Hall			

**ENERGY
STORAGE****PHYSICAL AND
CHEMICAL
PROPERTIES****CF AND
COMPOSITES****ACTIVATED
CARBON**

	YOSHIZAWA, Noriko JAPAN Great Hall Großer Saal	METZ, Joachim GERMANY Conference Room 6 Konferenzraum 6	HATORI, Hiroaki GERMANY Conference Rooms 4/5 Konferenzräume 4/5	NAKAZONO, Tomoya GERMANY Conference Rooms 2/3 Konferenzräume 2/3
Chairman				
Room				
11:40–12:00	Tube diameter-dependent ion adsorption behavior of single-walled carbon nanotubes used as electrodes for electric double-layer capacitor ISHII, Yosuke JAPAN	Acid and base properties of N-doped graphite evaluated by local electronic structures NAKAMURA, Junj JAPAN	Ice templated graphene foams: A novel approach for producing layered ceramic/graphene composites GARCIA ROCHA, Victoria UNITED KINGDOM	Coadsorption of mixtures of H₂S and organic vapors under different humidity conditions LODEWYCKX, Peter BELGIUM
12:00–12:20	Micro-supercapacitors based on hybrid carbon fibers CHEN, Yuan SINGAPORE	Boron and Nitrogen-Doped Carbons for Base-Catalyzed Reactions KANNARI, Naokatsu JAPAN	Solution Spun Lignin / PAN Hybrid Carbon Fibers and Their Properties MORRIS, Ashley UNITED STATES	Study of the diffusional mechanisms involved in the kinetic separation of CO₂ and CH₄ on a Carbon Molecular Sieve adsorbent PRE, Pascaline FRANCE
12:20–12:40	Synthesis of silica-templated ordered mesoporous carbon thin films as electrodes for micro-capacitors CONZÁLEZ-GAITÁN, Carolina SPAIN	Assessment of the structural evolution of phosphorus-containing carbons obtained at different temperatures using XPS, Raman and FTIR spectroscopy SOBIESIAK, Magdalena POLAND	Renewable source nanostructured precursors for carbon fibers LESCHINSKY, Moritz GERMANY	Integrated Scheme for Removal and Decomposition of Organic Pollutants from Water and Air on the Base of Effective Carbon Adsorbents and Catalysts YARDIM, Mehmet Ferhat TURKEY
12:40–13:50	L U N C H			

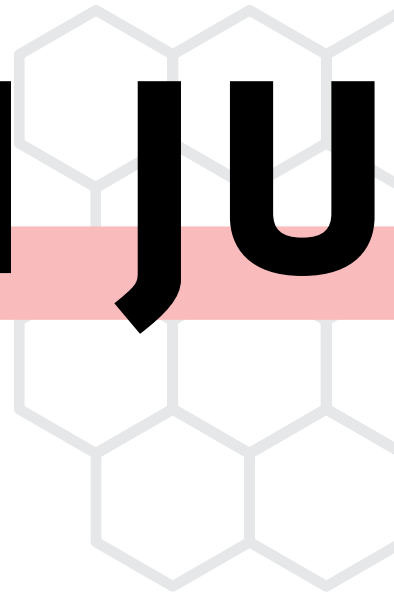
	<u>ENERGY STORAGE</u>	<u>PHYSICAL AND CHEMICAL PROPERTIES</u>	<u>CF AND COMPOSITES</u>	<u>ACTIVATED CARBON</u>
Chairman	ÖTTINGER, Oswin GERMANY	THOMMES, Matthias UNITED STATES	PARK, Chong Rae KOREA	LODEWYCKX, Peter BELGIUM
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
14:00–14:20	Novel fabrication of micro-super-capacitors through electrospray of nanostructured carbon materials RUIZ ROSAS, Ramiro SPAIN	Highly ordered helical turbostratic carbon of screwed-stacked cone and its intercalation behavior SAITO, Yukie JAPAN	The properties of carbon nanotube enhanced composite materials with their alignment MOON, Sooyoung JAPAN	Absorption and regeneration of activated carbon for siloxane removal CABRERA-Codony, Alba SPAIN
14:20–14:40	MgO-templated carbon negative electrodes for Na ion capacitor KADO, Yuya JAPAN	Vibrational characterisation of high surface area carbons through multitechnical tools: an innovative approach LAZZARINI, Andrea ITALY	Carbon Nanotube-based Epoxy Composites for Thermal Management PRAKASH, Vikas UNITED STATES	Studies on the targeted development of porous systems in biogenic process chars for PAH adsorption for their application in gas processing NEUBAUER, York GERMANY
14:40–15:00	Study of the influence of the surface functionality on carbon/ carbon supercapacitors ageing by in operando ECMS RAYMUNDO-PINERO, Encarnacion FRANCE	Thermal stability from soft to hard hydrogenated amorphous carbons analyzed using in-situ Raman spectroscopy. Application to tokamak carbon deposits PARDANAUD, Cedric FRANCE	Active screen plasma treatment and characterisation of carbon fibres – A feasibility study CORUJEIRA Gallo, Santiago UNITED KINGDOM	The role of texture on the adsorption of acetaminophen at different temperatures GALHETAS, Ana Margarida PORTUGAL
15:00–15:20	Supercapacitors based on activated carbons from agricultural mill waste: adapting porosity to selected electrolytes REDONDO, Eduarne SPAIN	Highly crystalized graphite ultrathin film SONEDA, Yasushi JAPAN	Monofilament mechanical test for anisotropic properties of carbon fiber IWASHITA, Norio JAPAN	Application of the LBET class adsorption models to the analysis of the effect of production process conditions on the structural properties of the active carbons ZIOLKOWSKA, Magda POLAND
15:20–15:40	Core-Shell Carbons for High Power and High Energy Electric Double Layer Capacitors ETZOLD, Bastian GERMANY	Nanowindow characterization of single wall carbon nanotubilities by dynamic multimolecular probe adsorption VALLEJOS-BURGOS, Fernando JAPAN	Effect of notch on static flexural behavior of carbon / carbon composites with different fiber orientations Fu, Yewei CHINA	High surface area activated carbons for the adsorption and photocatalytic degradation of methylene blue MATOS, Juan CHILE
15:40–16:10	C O F F E E B R E A K			

**ENERGY
STORAGE****PHYSICAL
AND CHEMICAL
PROPERTIES****CF AND
COMPOSITES****ACTIVATED
CARBON**

Chairman	RINN, Günter GERMANY Great Hall Großer Saal	ADELHELM, Philipp Germany Conference Room 6 Konferenzraum 6	SU, Dangsheng CHINA Conference Rooms 4/5 Konferenzräume 4/5	TITIRICI, Magdalena UNITED KINGDOM Conference Rooms 2/3 Konferenzräume 2/3
16:20–16:40	A Two Dimensional Highly Ordered Mesoporous Carbon / Graphene Nanocomposite for Electrochemical Double Layer Capacitors: Effect of Electrical and Ionic Conduction Pathways KIM, Kwangbum SOUTH KOREA	Roles of Water Molecules in Trapping Carbon Dioxide Molecules inside the Interlayer Space of Graphene Oxides YUMURA, Takashi JAPAN	Facile and rapid green synthesis of nitrogen and sulfur doped ordered porous carbon MOUSSA, Georges FRANCE	Porous carbon-based gas sensors: Exploring the effects of surface features on sensing mechanism BANDOSZ, Teresa J. UNITED STATES
16:40–17:00	Development of active carbons' porous structure derived from biomasses for their application in supercapacitors PAVLENKO, Vladimir KAZAKHSTAN	Size dependent properties of micro- and nano-diamonds PANICH, Alexander ISRAEL	Synthesis of Carbon Nanofibers Incorporating Heteroelements Using the Liquid Pulse Injection Technique MUKAI, Shin JAPAN	Activated Carbon Fibers Derived from Regenerated Cellulose and their Application in Electrical Double Layer Capacitors PRETSCHUH, Claudia AUSTRIA
17:00–17:20	Exploring electrolyte organisation and nanoporous carbon structures in supercapacitors with solid-state NMR DESCHAMPS, Michael FRANCE	Can biodegradable plastic films serve as a support for thin diamond-like carbon (DLC) coatings? FISCHER, Christian GERMANY	Microwave Plasma Enhanced CVD graphene-based aerogels: synthesis and study MANSUROV, Zulkhair KAZAKHSTAN	Robust Characterization of Activated Carbon Fibers (ACF) Using Adsorption of N₂ and Ar Analyzed by 2D-NLDFT Models JAGIELLO, Jacek UNITED STATES
17:20–17:40	Analysis of sodium ion stored in hard carbon using solid state Na NMR GOTOH, Kazuma JAPAN	Investigation of the surface properties of carbon nanoparticles BELLMANN, Cornelia GERMANY	Magnetic thermoresponsive microspheres with carbon encapsulated hollow-Fe₃O₄ as cores for hyperthermia and controlled release CHEN, Lin CHINA	Microporosity and nanostructure in activated carbons: characterization by X-ray scattering, Raman spectrometry and High Resolution-Transmission Electron Microscopy PARDANAUD, Cedric FRANCE
17:40–18:00	Intriguing ion performance at carbon electrode / aqueous electrolyte interface in electrochemical capacitor FIC, Krzysztof POLAND	Stress Corrosion Cracking of Monolayer CVD-graphene LEE, Seung-Mo SOUTH KOREA	Uncovering Carbon Nanotube Networks on Polycarbonate Nanocomposite Surfaces by Solar-spectral Irradiation: Relevance to Nanofibre Release MEYER-PLATH, Asmus GERMANY	Simulation of the Effect of Fluorine-Doping on the Adsorption and Transport of Water and Carbon-Dioxide in Silicon Carbide-Derived Carbon BHATIA, Suresh AUSTRALIA
18:00–18:20	Effect of carbon texture on the electrochemical performance of capacitors FRACKOWIAK, Elzbieta POLAND	Influence of the C-TiO₂ interface on the photocatalytic activity of TiO₂ MATOS, Juan CHILE	High selectivity in carbon nanotube purification by high temperature oxygen / chlorine gas treatment DEFORGES, Alexandre FRANCE	¹H-NMR study of hydrogen adsorbed on Grassy Carbons KUMAGAI, Haruo JAPAN

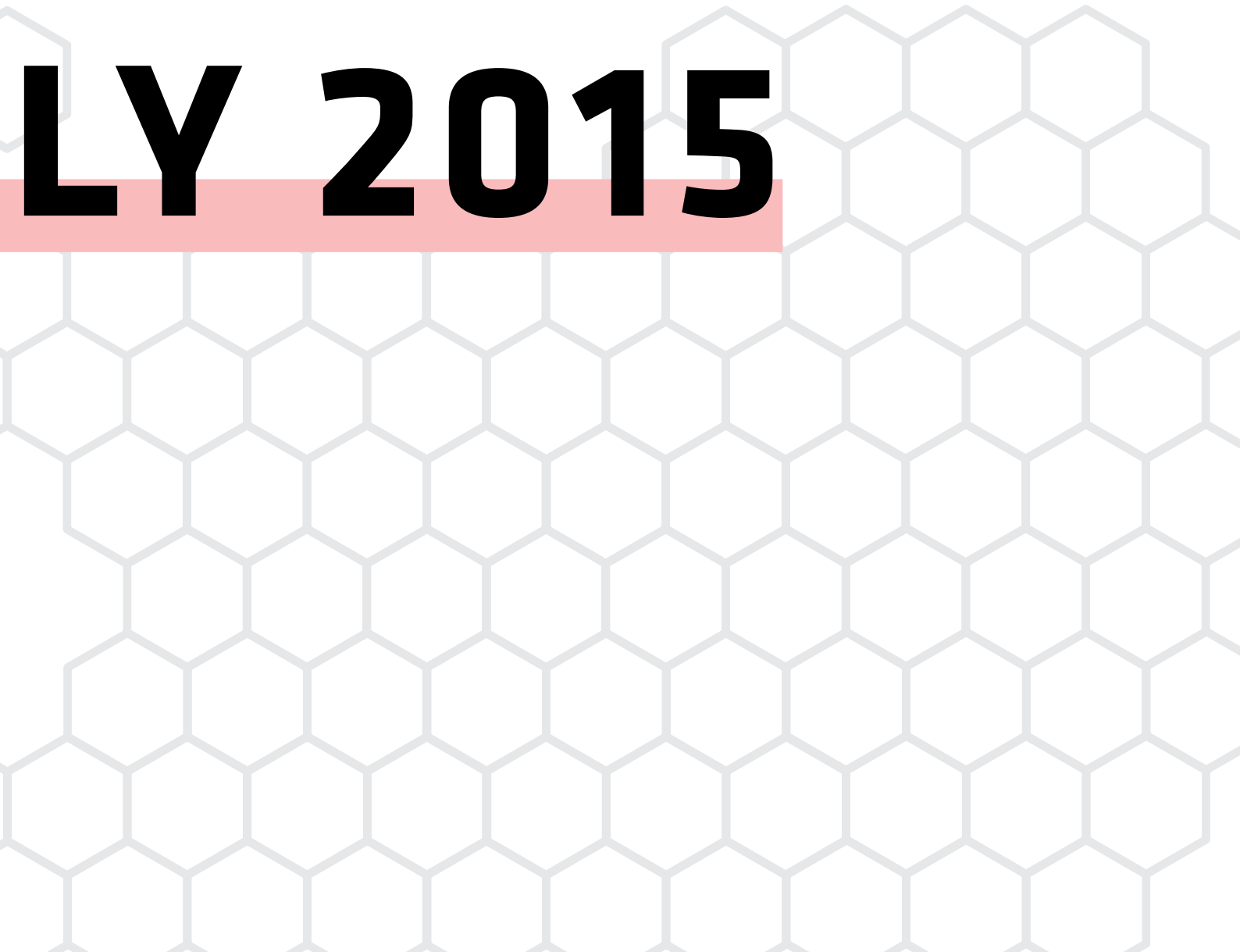
WEDNESDAY

15TH JULY



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	<u>ENERGY STORAGE</u>	<u>NANOFORMS</u>	<u>INDUSTRIAL</u>	<u>BIOMASS DERIVED CARBON</u>
Chairman	WACHTLER, Mario GERMANY	MONTHIOUX, Marc FRANCE	TAYLOR, Rodney GERMANY	REICHE, Sylvia GERMANY
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
08:40–09:00	Structure and Oxygen Reduction Reaction Activity of Carbon Nano-Union Derived from Fullerene Residue <u>MAIE, Takuya</u> JAPAN	Unique adsorption properties of water on pillared carbons <u>MATSUO, Yoshiaki</u> JAPAN	Regulatory Challenges for Coal tar Pitch Uses <u>Braun, Markus</u> GERMANY	Green synthesis of ordered mesoporous carbons from tannin <u>FIERRO, Vanessa</u> FRANCE
09:00–09:20	Illuminating Carbon-Electrolyte Interactions: Solid-State NMR Studies on Model Carbons with well-defined Porosity <u>BORCHARDT, Lars</u> GERMANY	Strategies for preparing CNT-metal and CNT-ceramic composites with interesting mechanical and tribological properties <u>LAURENT, Christophe</u> FRANCE	Vaporization behavior of refractory elements in graphitic matrices <u>METZ, Joachim</u> GERMANY	Hydrogel-based synthesis from sustainable biopolymers of nitrogen-doped mesoporous carbons with high capacitive performance <u>OLEJNICZAK, Andrzej</u> POLAND
09:20–09:40	Electrical conductivity of carbon supercapacitor electrodes and its bearing on electrochemical performance <u>PRESSER, Volker</u> GERMANY	Development of high-strength carbon nanotube fibers by covalent crosslinking <u>LEE, Kun-Hong</u> SOUTH KOREA	Carbonization process of oxygen-containing aromatic compounds with the aid of calculation <u>YAMADA, Yasuhiro</u> JAPAN	Tannin – based carbon polyHIPes with tuneable porous and mechanical properties <u>Szczurek, Andrzej</u> FRANCE
09:40–10:00	Biosourced activated carbons with improved hydrogen storage capacities prepared by hydrothermal carbonisation <u>SCHAEFER, Sébastien</u> FRANCE	Improved electrical and thermal properties of CNT and graphene hybrid films <u>KWON, Youbin</u> SOUTH KOREA	Development and challenges of self-baking electrodes <u>LEYE, Johann-Christian</u> GERMANY	Carbonization of cellulose fibre precursors: experimental and modelling efforts <u>HEIKKILÄ, Pirjo</u> FINLAND
10:00–10:30	C O F F E E B R E A K			
10:30–11:30	<u>PLENARY LECTURE III</u>			
	Carbon Black: A New Look at an old Nanomaterial			
	TAYLOR, Rodney GERMANY			
Chairman Room	FRACKOWIAK, ELZBIETA Großer Saal/Great Hall			

**ENERGY
STORAGE****NANOFORMS****INDUSTRIAL****BIOMASS
DERIVED CARBON**

	KASKEL, Stefan GERMANY Great Hall Großer Saal	EMMERICH, Francisco BRAZIL Conference Room 6 Konferenzraum 6	CLARK, John SOUTH AFRICA Conference Rooms 4/5 Konferenzräume 4/5	FUJIMOTO, Hiroyukin JAPAN Conference Rooms 2/3 Konferenzräume 2/3
Chairman				
Room				
11:40-12:00	Quinone-functionalized zeolite-templated carbon as the electrodes for high energy density redox capacitor <u>NUEANGNORAJ, Khanin</u> THAILAND	Ultra-conductive wire of carbon nanotubes by floating CVD method <u>FUJISHIGE, Masatsugu</u> JAPAN	Carbon Fiber Composites in Wind Turbines - Advantages and Challenges <u>VOGL, Christian</u> GERMANY	Early steps of carbonization by chemical activation: thermal analysis of catalytic torrefaction of impregnated wood <u>TANCREDI, Nestor</u> URUGUAY
12:00-12:20	Tuning structure and porosity of onion-like carbon synthesized via thermal annealing of nanodiamond <u>ZEIGER, Marco</u> GERMANY	Nanocarbon as catalyst and catalyst support <u>SU, Dangsheng</u> CHINA	Highly Compressible Carbon: Properties and Potential Applications <u>ZHOU, Changjun</u> UNITED STATES	Green2 Multifunctional Composites of Natural Rubber and Nanocarbon from Food Waste <u>KAMPIOTI, Katerina</u> FRANCE
12:20-12:40	Nanostructured materials functionalised for electrochemical energy storage applications <u>STIRLING, Chris</u> UNITED KINGDOM	Creating of catalytic systems from oil sludge and soot for the synthesis of nanotubes <u>LESBAYEV, Bakhytzhhan</u> KAZAKHSTAN	Development of high performance needle coke by controlling coke structure and its application for Graphite electrodes and carbon materials for LiB <u>KAWACHI, Hiroshi</u> JAPAN	Synthesis and Characterization of Activated Carbons from Tomato Waste (Solanum Lycopersicum) by Chemical Activation with K₂CO₃ and KOH <u>YARGIC, Adife Seyda</u> TURKEY
12:40-13:50	L U N C H			

	<i>ENERGY STORAGE</i>	<i>NANOFORMS</i>	<i>CF AND COMPOSITES</i>	<i>BIOMASS DERIVED CARBON/ CONVERSION PROCESSES</i>
Chairman	MATEI GHIMBEU, Camelia FRANCE	KYOTANI, Takashi JAPAN	IWASHITA, Norio JAPAN	THIES, Mark UNITED STATES
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
14:00–14:20	Monitoring single molecules on graphene CHOUCAIR, Mohammad AUSTRALIA	Palladium nanoparticles in catalytic carbon nanoreactors: the effect of confinement on Suzuki-Miyaura reactions RANCE, Graham UNITED KINGDOM	Compatibilization of pitch-based carbon fibre with high performance thermoplastic by supramolecular assembly for adhesion promotion MARTIN, Arnaud LUXEMBOURG	Eco-friendly Catalysis and Photocatalysis on Biochar-based Materials MATOS, Juan CHILE
14:20–14:40	Multi-Walled Carbon Nanotube based CFx and 3-D Graphene based electrodes for improved secondary battery performances PRADHAN, Bhabendra UNITED STATES	Inkjet printing of polymer-wrapped graphene and CNT hybrid inks SHIM, Wonbo SOUTH KOREA	New precursors for the development of carbon fibers: the case of lignin KOUMOULOS, Elias GREECE	E. coli-derived carbon with nitrogen and phosphorus dual functionalities for oxygen reduction reaction CHEN, Yuan SINGAPORE
14:40–15:00	Effect of the Process Parameters for Oxygen Plasma Activation of Carbon Nanofibres on the Characteristics of Deposited Platinum Catalyst Nanoparticles ROST, Ulrich GERMANY	Carbon Nanotube-Silicon Nanowire Array Heterojunction Solar Cells JIA, Yi CHINA	Determining what key attributes are needed for strong lignin-based carbon fibres DODD, Angela UNITED STATES	Reactive Interface-Assisted Co-assembly to Monodisperse Hollow Ordered Mesoporous Polymeric and Carbonaceous Nanospheres Wu, Dingcai CHINA
15:00–15:20	Nanostructured Carbon Materials for Electrocatalytic Energy Conversion Reactions HARRY RAHMAT SURYANTO, Bryan AUSTRALIA	Carbon nanotube-enhanced electrode materials for lithium-ion batteries LIU, Chang CHINA	Low cost carbon fibres from polyethylene DE PALMENAER, Andreas GERMANY	Hydrothermal carbonization (HTC) as a recovery technology for urban wastewater treatment WIKBERG, Hanne FINLAND
15:20–15:40	Preparation and Structural Characterization of Macroporous Graphitized Carbons LOEH, Marc GERMANY	Graphene reinforced waterborne polyurethane composite coatings for anticorrosive properties and functional properties Li, Jing CHINA	Structured multilayer electrodes made of conductive polymer and carbon nanotubes for Polymer Electrolyte Membrane Fuel Cells LONG, Hongtao LUXEMBOURG	Carbide-Derived Carbons as Metal-Free Catalysts for the Direct Dehydrogenation of Ethylbenzene ETZOLD, Bastian GERMANY
15:40–16:10	C O F F E E B R E A K			

**ENERGY
STORAGE****NANOFORMS****CF AND
COMPOSITES****ENVIRONMENTAL
& MEDICAL**

	GONZÁLEZ GAITÁN, Carolina SPAIN Great Hall Großer Saal	PRESSER, Volker GERMANY Conference Room 6 Konferenzraum 6	WESELEY, Hoffmann UNITED STATES Conference Rooms 4/5 Konferenzräume 4/5	ETZOLD, Bastian GERMANY Conference Rooms 2/3 Konferenzräume 2/3
Chairman				
Room				
16:20–16:40	Characterization of PEMFC catalytic layers based on carbon xerogel DESCHAMPS, Fabien BELGIUM	Structural Properties of Nanodiamond and Nano-Boron Nitride JOHNSON, Donald UNITED STATES	Structure and mechanical characteristics of carbon fibers from aromatic polymer precursors HATORI, Hiroaki JAPAN	Monolithic Carbon Catalyzes the Fructose Conversion into 5-Hydroxymethylfurfural ZHANG, Jian CHINA
16:40–17:00	Hierarchical nanocarbon for advanced lithium-sulfur batteries ZHANG, Qiang CHINA	Structural difference of pyrolytic carbon particles on positively and negatively charged electrodes MUKAWA, Kei JAPAN	Oxidation Protection by Multi-antioxidant Coating of Carbon/Carbon Brake Disks in the Absence and Presence of a De-icing Agent CHO, Donghwan SOUTH KOREA	Fast laser annealing nano-scale carbons: material transformations VANDER WAL, Randy UNITED STATES
17:00–17:20	Catalysis of Dioxovanadium Ion Reduction at Carbonaceous Material with Fe-N₄ site MARUYAMA, Jun JAPAN	Carbon-Dots (C-Dots) - Polyol Synthesis and Intense Red Emission from Eu³⁺-Modification DONG, Hailong GERMANY	The effect of nanostructure upon the tensile strength distribution of PAN-based carbon fibres OKUDA, Haruki UNITED KINGDOM	Nanoporous carbons obtained by hydrothermal carbonization of carbohydrates and eutectic salt mixtures CARVALHO, Ana Paula PORTUGAL
17:20–17:40	The role of boron in boron / carbon materials as anodes of lithium and sodium ion batteries KAWAGUCHI, Masayuki JAPAN	Visualization and Healing of Graphene Defects YOON, Taeshik SOUTH KOREA	Influence of sample preparation on carbon fiber single filaments mechanical characterization FRANCESCHI, Fabio BRAZIL	Air purifying effect of Activated Carbon Fibers installed in sound-insulation panel at highway in Japan YOSHIKAWA, Masaaki JAPAN
17:40–18:00	Graphene Based materials for Energy Storage FAN, Zhuangjun CHINA	TEM and EELS characterization of ultrathin carbon films with perpendicular/parallel orientation YOSHIKAWA, Noriko JAPAN	Massive Electrical Conductivity Enhancement of Multilayer Graphene / Polystyrene Composites Using a Non-Conductive Filler BOSE, Arijit UNITED STATES	Preparation and characterization of TiO₂ / C hybrid aerogels as photocatalysts ZHANG, Rui CHINA
18:00–18:20	Carbon Xerogels as Anodes for Lithium-Ion Batteries: model materials for the study of irreversible capacity losses in carbon materials PIEDBOEUF, Marie-Laure BELGIUM	Annealing Carbon Blacks: A Comparison of Timescales by HRTEM & Image Analysis VANDER WAL, Randy UNITED STATES	Production and characterization of carbon felt from wool TANCREDI, Nestor URUGUAY	The influence of carbon material properties on the efficiency of catalytic wet peroxide oxidation processes ROBEIRO, Rui PORTUGAL

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	<u>ENERGY STORAGE</u>	<u>CF AND COMPOSITES</u>	<u>INDUSTRIAL</u>	<u>BIOMASS DERIVED CARBON</u>
Chairman	CARVALHO, Ana Paula PORTUGAL	CHO, Donghwan SOUTH KOREA	LEVE, Johann-Christian GERMANY	MORRIS, Ashley UNITED STATES
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
08:40–09:00	Carbon Based Cathode and Anode Concepts for High Capacity Lithium-Sulfur Batteries with Enhanced Cycle Stability <u>THIEME, Sören</u> GERMANY	Copper and copper alloys as a composite matrix for recycle carbon fiber reinforcement <u>KLASSERT, Anton</u> GERMANY	Thermal Stress Testing of Carbon & Graphite Materials <u>MERKLINGER, Verena</u> GERMANY	Preparation of spherical nanoporous carbons by K₂CO₃ activation of biomass acid liquors derived chars <u>MESTRE, Ana Sofia</u> PORTUGAL
09:00–09:20	Carbon foams and carbon black as collectors for concentrated solar energy <u>Focke, Walter</u> SOUTH AFRICA	In-situ tensile deformation and fracture behavior of high strength T1000 carbon fibers <u>BYUN, Joon-Hyung</u> SOUTH KOREA	The development of highly anisotropic coke from an aliphatic waxy oil residue <u>CLARK, John</u> SOUTH AFRICA	Selectivity of Functionalized Carbon Honeycomb Monoliths in Elimination of Azotaemic Toxins from Human Plasma <u>JANDOSOV, Jakpar</u> KAZAKHSTAN
09:20–09:40	Carbon-TiO₂ hybrid supports for the direct formic acid fuel cells on Pd-based catalysts <u>MATOS, Juan</u> CHILE	Carbon Nanotube / Carbon Film Nanostructures for Nanoengineered Composites <u>ROMERO, Pablo</u> SPAIN	Intensive mixing, a universal mixing principle for carbon paste <u>HOHL, Berthold</u> GERMANY	Sustainable Carbon Materials and Chemicals from Biomass Hydrothermal Processes <u>TITIRICI, Magdalena</u> UNITED KINGDOM
09:40–10:00	Electrochemical response of doped ultrahigh micro / mesoporous carbon aerogel electrodes in saline water <u>ANIA, Conchi. O.</u> SPAIN	Flexural fatigue behavior of 2D cross-ply carbon / carbon composites at room temperature <u>Li, Kezhi</u> CHINA	A quantitative analysis of trace amounts of hydrogen and surface oxygen complexes for graphites and high-temperature treated carbons in relation to their molecular structures <u>ISHII, Takafumi</u> JAPAN	Preparation of activated carbons through H₃PO₄-assisted hydrothermal carbonization of biomass wastes <u>RUIZ ROSAS, Ramiro</u> SPAIN
10:00–10:30	C O F F E E B R E A K			
10:30–11:30	<u>PLENARY LECTURE IV</u>			
	Carbon Alloys in Energy Systems KAWAGUCHI, Masayuki JAPAN			
Chairman Room	CHENG, Hui-Ming Großer Saal/Great Hall			

**ENERGY
STORAGE****CF AND
COMPOSITES****INDUSTRIAL****BIOMASS
DERIVED CARBON**

Chairman	CADEK, Martin GERMANY Great Hall Großer Saal	VIGNOLES, Gerard FRANCE Conference Room 6 Konferenzraum 6	HOHL, Berthold GERMANY Conference Rooms 4/5 Konferenzräume 4/5	KULAOTS, Indrek UNITED STATES Conference Rooms 2/3 Konferenzräume 2/3
11:40–12:00	Hydrogen Storage on Graphene LYTH, Stephen JAPAN	A model of defective graphene nanoribbons to explain longitudinal physical properties of MPP-based carbon fibers EMMERICH, Francisco BRAZIL	Development of carbon materials from recycled graphite powders PETASCH, Uwe GERMANY	Hydrothermal Carbonization (HTC): A "Natural" Process for Sustainable Fuels, Chemicals and Catalysts PILEIDIS, Filoklis UNITED KINGDOM
12:00–12:20	Carbon Alloy Catalysts for Hydrogen Evolution Reaction Derived from Wool and Metal Compounds TAKIGAMI, Machiko JAPAN	The Black Art of Developing Stages of Carbon Paper as Efficient Materials for Energy Generation, Storage, and Conservation MAHESHWARI, Priyanka INDIA	Exploring carbon deposition over Iron and Iron oxides (FeO, Fe₂O₃ and Fe₃O₄) from SYNGAS mixture at low temperature (500 – 600°C): Kinetics and morphology BOST, Nicolas FRANCE	Biomass-based disc electrodes by hydrothermal synthesis REICHE, Sylvia GERMANY
12:20–12:40	Surface chemical studies of boron and nitrogen doped carbons for oxygen reduction reaction OZAKI, Jun-ichi JAPAN	Study of Cuprous Oxide / Graphene nano composites by using electroless plating at room temperature HSIEH, Shu-Huei GERMANY	A size-dependent thermodynamic model for graphitic crystallites integrating the binary interactions of sulfur / hydrogen with carbon up to 2500 K OUZILLEAU, Philippe CANADA	Biomass-Derived Porous Nitrogen-Containing Carbonaceous Materials ZHAO, Li CHINA
12:40–13:50	L U N C H			

	<i>ENERGY STORAGE</i>	<i>CF AND COMPOSITES</i>	<i>CARBON BLACK/ ENVIRONMENTAL & MEDICAL</i>	<i>BIOMASS DERIVED CARBON</i>
Chairman	HANDL, Werner GERMANY	WEISS, Roland GERMANY	FROHS, Wilhelm GERMANY	ANIA, Conchi O. SPAIN
Room	Great Hall Großer Saal	Conference Room 6 Konferenzraum 6	Conference Rooms 4/5 Konferenzräume 4/5	Conference Rooms 2/3 Konferenzräume 2/3
14:00–14:20	Nanocarbon materials and their hybrids for Na-ion batteries ZHANG, Biao FRANCE	Effects of Hydrophobic Agent Content in Macro-Porous Substrates on the Fracture Behavior of the Gas Diffusion Layer for PEMFC KIM, Sanwi SOUTH KOREA	X-ray scattering measurements on the condensation and vaporization of carbon nanoparticles by changing the flame conditions OSSLER, Frederik SWEDEN	Carbon meringues derived from flavonoid tannin Szczurek, Andrzej FRANCE
14:20–14:40	Enhancement of Electrochemical Capacitance in Porous Carbons with Redox Organic Molecules ITOI, Hiroyuki JAPAN	Finite Element analysis of Carbon / Carbon composites thermal dilation based on X-ray microtomographic data VIGNOLES, Gerard FRANCE	Preparation of Carbon Nanoparticles through the Liquid Pulse Injection Technique IWAMURA, Shinichiroh JAPAN	Biomass-derived Carbon Quantum Dots Sensitizers for Solid-State Nanostructured Solar Cells MARINOVIC, Adam UNITED KINGDOM
14:40–15:00	Carbon containing silicium based inorganic membranes JÜTTKE, Yvonne GERMANY	A Fabrication Process for C/C Composites Containing TaC Filler DJUGUM, Richard AUSTRALIA	Functionalization of carbon black with hyperbranched Polyethyleneimine MORALES-LARA, Francisco SPAIN	Activated biochar with tailored porosity and its application in water treatment and energy storage DEHKHODA, Amir Mehdi CANADA
15:00–15:20	Electrode materials for water splitting: Different approaches to bind catalytic active manganese oxide to conductive carbon supports BULLER, Saskia GERMANY	Study of the Interfacial Properties of Carbon Fibre Composites using Dynamic Mechanical Analysis and Quantitative Nanomechanical Mapping CREIGHTON, Claudia AUSTRALIA	Carbon-polymer dressings for the treatment of chronic wounds MIKHALOVSKY, Sergey KAZAKHSTAN	Phosphorus-nitrogen doped carbon for electrochemical purposes RYBARCZYK, Maria POLAND
15:20–15:40	A New Carbon Model with Ultra-Hydrophilic, Heteratom-Doped Properties toward Applications in Energy Storage and Conversion HAO, Guang-Ping GERMANY	Obtaining hydrophobic soot with iron nanoparticles NAZHIPKYZY, Meruyert KAZAKHSTAN	Manufacturing of Carbon membranes with tailored properties for gas separating processes REGER-WAGNER, Norman GERMANY	Carbon tubules containing nanocrystalline SiC produced by the graphitization of sugar cane bagasse FUJIMOTO, Hiroyuki JAPAN
15:40–16:00	C O F F E E B R E A K			

16:00-16:45	<u>AWARD SESSION</u>
Chairman	HURT, Robert UNITED KINGDOM

16:45-17:15	Closing remarks
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	<u>CONFERENCE DINNER</u>
18:00-19:00	Departure Congress Center (30 km / 50 min)
19:00-23:00	Conference Dinner Wine estate and Castel of Proschwitz / Weingut Schloss Proschwitz <i>www.schloss-proschwitz.de</i>
23:00-00:00	Return Congress Center (30 km / 50 min)

POS

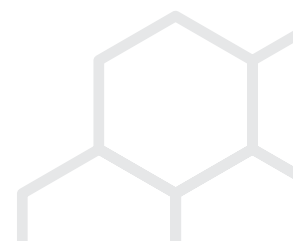
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Monday, 13th July 2015

ACTIVATED CARBON

Wall Nº	Title	Name	Country
01	Breakthrough Curves of CO ₂ and CH ₄ on Carbon Molecular Sieves – Experiment and Modelling	MOELLER, Andreas	GERMANY
02	Adsorption of 2,4-dichlorophenoxyacetic acid onto mesoporous activated carbon prepared from a waste of fruit juice industry by chemical activation	KILIC, Murat	TURKEY
03	Synthesis of Carbon Aerogels and its Characterization by Immersion Calorimetry	FONSECA-CORREA, Rafael Alberto	COLOMBIA
04	Effect of activation temperature on the textural and chemical properties of chemically activated carbons using hydroxides as activation agents	KILIC, Murat	TURKEY
05	Adsorption Calorimetry used for Characterization of Activated Carbons Obtained from Cerrejon Region Coals by Physical and Chemical Activations	MORENO-PIRAJÁN, Juan Carlos	COLOMBIA
06	Preparation and characterization of activated carbon from pomegranate peel by chemical activation with potassium and sodium carbonates	KILIC, Murat	TURKEY
07	Influence of ZnCl ₂ and FeCl ₃ activation agents on pore structure of biomass-based activated carbon	KILIC, Murat	TURKEY
08	Comparison between lignin xerogel and lignin carbon xerogel for ammonia adsorption	CASTRO, Chris Daniela	COLOMBIA
09	The Effect of oxygen group combination on CO ₂ Adsorption behavior of Porous Carbon	LEE, Young-Seak	SOUTH KOREA
10	Radon adsorption in microporous activated carbons	SCHAEFER, Sébastien	FRANCE
11	Effects of surface chemical properties of activated carbon fibers modified by HF treatment for CO ₂ adsorption	BAI, Byong Chol	SOUTH KOREA
12	Sorption of Oil in Produced Water by Exfoliated Graphite	TAKEUCHI, Kenji	JAPAN
13	Tailored Fe ₃ C-derived Carbons with Embedded Fe Nanoparticles for Ammonia Adsorption from Air	WALTON, Krista	UNITED STATES
14	New fractal equations to model the lead concentration decay in the adsorption of lead by a fractal activated carbon	LARGITTE, Lucie	FRANCE
15	Adsorption properties of activated carbons fibers obtained from Kevlar®	DZIURA, Aleksandra	POLAND
16	Application of the clustering-based models with the original fluid state model to an analysis of high temperature gaseous adsorption isotherms on the carbonaceous materials	ZIÓŁKOWSKA, Magda	POLAND
17	Adsorption mechanisms in view of the computational studies of adsorbent-adsorbate interaction potential	ZIÓŁKOWSKA, Magda	POLAND

ENERGY STORAGE

Wall Nº	Title	Name	Country
18	Nitrogen-doped aligned carbon nanotube/graphene sandwiches: 3D hierarchical hybridization and surface modulation towards excellent lithium-sulfur batteries	TANG, Cheng	CHINA
19	Graphene barriers in oxygen evolution electrocatalysis: interfacial modulation and performance enhancement	TANG, Cheng	CHINA
20	Nanosized NiFe LDH confined in graphene frameworks: topology-assisted synthesis and superior performances for oxygen evolution electrocatalysis	TANG, Cheng	CHINA
21	Multilayered Graphene-Biopolymer Supercapacitor	NAVARRO-SUÁREZ, Adriana	SPAIN
22	Electrochemical performance of lignin carbon xerogel	CASTRO, Chris Daniela	COLOMBIA
23	Preparation and characterization of hybridized carbon nano fibers with three-dimensional channeled structure	LEE, Young-Seak	SOUTH KOREA
24	Characterization of hydrogen storage in Ni doped and Fluorine introduced activated carbon fiber	LEE, Young-Seak	SOUTH KOREA
25	Enhanced Electrochemical Characteristics of Activated Carbon Fiber-Based EDLC Electrodes via Fluorination	KIM, Min Il	SOUTH KOREA
26	Electrochemical Properties of E-beam irradiated Activated Carbons for Electric Double-layer Capacitors	KIM, Do Young	SOUTH KOREA
27	Multifunctional photoelectronic conductive film for flexible devices based on carbon nanotubes	CHAE, Minsu	SOUTH KOREA
28	Effect of thermal treated carbon felt on electrochemical properties for redox flow battery electrode	CHO, Seho	SOUTH KOREA
29	Electrochemical Evaluation of Organic Electrolytes Containing Lithium-salt for High Energy/Power Hybrid Supercapacitors	SECCHIAROLI, Marco	GERMANY
30	Capacitance properties of nitrogen-doped ordered carbons obtained through nanocasting routes	FIERRO, Vanessa	FRANCE
31	Tailoring the porosity of tannin-based electrodes for supercapacitors	FIERRO, Vanessa	FRANCE
32	Si-enriched Porous Carbons from Rice Husks for Capacitive Deionization	JUNG, Doohwan	SOUTH KOREA
33	Spheroidization of Natural Graphite Flakes in Lab Scale	RAPP, Manfred	GERMANY
34	Tailored Amorphous Carbons for Carbon-Silicon Nanocomposite Anodes in Next-Generation Lithium-Ion Batteries	RÖTHINGER, Johannes	GERMANY
35	Ionic Liquid Assisted Synthesis of N-doped Mesoporous Carbon/Graphene Nanocomposite for Supercapacitors	KIM, Ho Seok	SOUTH KOREA
36	Electrochemical behaviour of activated carbons obtained by environmentally friendly strategies	LOZANO CASTELLO, Dolores	SPAIN

GRANULAR / NUCLEAR CARBON

Wall Nº	Title	Name	Country
37	Preparation of delayed cokes by two-stage pyrolysis of coal tar	JUNG, Doohwan	SOUTH KOREA
38	In situ graphitization of carbide-derived carbon monoliths	KERN, Andreas	GERMANY
39	Investigation of petroleum pitches wetting behaviour	PEREIRA, Maria Helena	BRAZIL

NATURAL GRAPHITE

Wall Nº	Title	Name	Country
40	Structural analysis of potassium-graphite intercalation compounds by transmission electron microscopy combined with image processing	MIYAZAKI, Takashi	JAPAN

PHYSICAL AND CHEMICAL PROPERTIES

Wall Nº	Title	Name	Country
41	Synthesis of Nitrogen-doped MWCNTs and their length shortening as a function of ultrasonication energy input in aqueous dispersions	FUGE, Robert	GERMANY
42	Enhanced Thermoelectric Properties of BiCuSeO/Polyaniline Composites	LAN, Jin le	CHINA
43	Functionalization of multiwalled carbon nanotubes with amines and ammonia	JĘDRZEJEWSKA, Anna	POLAND
44	Preparation of reformed pitch from pyrolysis fuel oil by direct fluorination and its characteristics	KIM, Do Young	SOUTH KOREA
45	Effect of pitch contents in pitch/PVA slurry on thermal and mechanical behavior of graphite foam using a template method	LEE, Young-Seak	SOUTH KOREA
46	Evaluation of Functional Groups on Carbon Materials by the TPD method	MATSUMURA, Kazuki	JAPAN
47	Discussion of ternary Graphite Intercalation Compounds's structure after desalination reactions	YASUTAKE, Takuya	JAPAN
48	Microwave analysis of a suspension comprising single-walled carbon nanotubes	PADDUBSKAYA, Alesia	LITHUANIA

Wall N°	Title	Name	Country
49	Quantitative analysis of oxygen-containing groups on Carbon Nanotubes	SCHÖNHERR, Jan	GERMANY
50	Development of Measurement Method and Prediction Model of Vapor Liquid Equilibria of the System Including Coal Tar Pitch at High Temperature	HIRAHARA, Satoshi	JAPAN
51	Electromagnetic properties of carbon foams	CELZARD, Alain	FRANCE
52	Laboratory characterization of self-baking electrodes for the metallurgical industry using the example of alternative pitch research	LEVE, Johann-Christian	GERMANY
53	Characterization of pre-treated carbon nanotubes (CNT) and deposition of vanadium oxides via atomic layer deposition (ALD)	DÜNGEN, Pascal	GERMANY
54	Experimental and modelled multi-wavelength Raman spectroscopy studies of various carbon materials	MONTHIOUX, Marc	FRANCE
55	Graphite melting: atomistic kinetics resolves long-standing controversy	OREKHOV, Nikita	RUSSIA
56	Modelling dislocations and their dynamics in a graphite crystallite	HEGGIE, Malcolm	UNITED KINGDOM
57	Micro-Mesopore Analysis of Ordered Nanoporous Carbons by Combining High Pressure CO ₂ Adsorption at 273 K with Novel Hybrid NLDFT-QSDFT Kernels	THOMMES, Matthias	UNITED STATES
58	Mechanism of graphene and soot particles formation in flames	AUYELKHANKYZY, Moldir	KAZAKHSTAN
59	Graphene vs. high-surface-area carbons in catalytic applications: any fundamental improvements?	RADOVIC, Ljubisa	UNITED STATES
60	Advanced Spectroscopic Analyses on a:C-H Materials: Revisiting the EELS Characterization and its Coupling with multi-wavelength Raman Spectroscopy	PARDANAUD, Cedric	FRANCE
61	Synthesis and Characterisation of Graphene materials	CENTENO, Alba	SPAIN
62	B/C/N graphite-like structure: determination of the chemical composition and intercalation of metals in lithium-based alloys.	HEROLD, Claire	FRANCE
63	Transition behavior of elastic properties in the graphitic structure, from mono to several tens of layers	HWANGBO, Yun	SOUTH KOREA
64	Origins of sp ³ C peaks in C _{1s} X-ray photoelectron spectra	YAMADA, Yasuhiro	JAPAN
65	Production of highly active carbon metal mixtures for synthesis of condensed systems	LESBAYEV, Bakhytzhhan	KAZAKHSTAN

ENVIRONMENTAL AND MEDICAL

Wall Nº	Title	Name	Country
66	Tetracycline removal by activated carbons produced from tyre char	FIERRO, Vanessa	FRANCE
67	Simultaneous removal of shoot and nox in diesel exhausts with CuO/Ceria NSR catalysts	LOZANO CASTELLO, Dolores	SPAIN
68	Diagnosing lung cancer by toluene detection in exhaled breath	FIERRO, Vanessa	FRANCE
69	Functionalized graphene quantum dots on Fluorescent Probes	WANG, xiaomin	CHINA
70	Adsorption of pharmaceutical compounds on carbons of different morphologies	CARVALHO, Ana Paula	PORTUGAL
71	Iron-Filled Multi-walled Carbon Nanotubes Surface-Functionalized with Paramagnetic Gd (III): Toward a Dual-Functioning MRI Contrast Agent and Magnetic Hyperthermia Structure	BAXENDALE, Mark	UNITED KINGDOM
72	Wavelength-Tunable Wrinkled Graphene Surface Films for Cell Alignment and Shape Modification	WANG, Zhongying	UNITED STATES
73	Breakthrough curves of CO₂ adsorption on functionalized activated carbon fiber fabrics	CHIANG, Yu-Chun	TAIWAN
74	Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process	CHEN, Yuan	SINGAPORE
75	Model experiments on uric acid elimination by carbon monoliths functionalized with uricase	JANDOSOV, Jakpar	KAZAKHSTAN
76	Hydrophilic modification of PAN-based carbon fibers by carbamide	LIU, Jie	CHINA
77	Spherical Mesoporous Carbon Decorated with MgO for Catalytic Oxidation of H₂S at Low Temperature	WANG, Mei	CHINA
78	Preparation of Pd/Pt/Au/Ru-Promoted Three-Dimensional Graphene Aerogels for Low-temperature Carbon Monoxide Removal	WANG, Mei	CHINA
79	Systematic study of the interaction between oxidized single walled carbon nanotubes and water-insoluble anticancer drug	PERMANA, Benny	JAPAN
80	Honeycomb Carbon Monoliths from Renewable Materials: Investigation of Cell Cytotoxicity and Haemocompatibility	JANDOSOV, Jakpar	KAZAKHSTAN
81	Enhanced Growth of Neural Networks on Cellulose-Derived Carbon Nanofibrous Scaffolds	KUZMENKO, Volodymyr	SWEDEN
82	Development of magnetically recoverable carbon nanocomposites for the catalytic wet peroxide oxidation of 4-nitrophenol solutions	RIBEIRO, Rui	PORTUGAL
83	Preparation of Food Protein Hydrolysates with Enhanced ACE-Inhibition by Selective Adsorption Using Porous Carbons	HIPPAUF, Felix	GERMANY
84	Characterization of Polymer Carbon Sieves, Graphitized Polymer Carbons and Graphitized Carbon Blacks for Use in Bench-Scale Processes	BETZ, William	UNITED STATES

Wall Nº	Title	Name	Country
86	Sludge immobilization and wastewater treatment efficacy of carbon fiber biofilm-carriers under low COD condition	LIU, Jie	CHINA
87	Effect on nanopore confinement on the photoactivity of carbon materials	ANIA, Conchi O.	SPAIN
88	The Effect of Activated Carbon Fiber on Wound Healing	LIN, Jui-Hsiang	TAIWAN
89	Biomass-derived Carbon Quantum Dots for Bioimaging Applications	PAPAIOANNOU, Nikolaos	UNITED KINGDOM
90	Photochemical reactivity and cooperative effects between TiO ₂ and Fe-containing activated carbons	MATOS, Juan	CHILE



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W II

Tuesday, 14th July 2015

ACTIVATED CARBON

Wall №	Title	Name	Country
01	Modeling of carbon molecular sieve using non-equilibrium CVD simulation	YAMANE, Yasuyuki	JAPAN
02	Influence of pore structures on ethanol adsorption characteristics of activated carbons for adsorption heat pumps	NAKABAYASHI, Koji	JAPAN
03	Elucidation of temperature rising of carbon material during MAS-NMR measurement	NAKABAYASHI, Koji	JAPAN
04	Re-using activated carbon filters partly saturated by mixtures of organic vapors	LODEWYCKX, Peter	BELGIUM
05	Role of the surface chemistry of the adsorbent on the initialization step of the water sorption process	FERNANDEZ VELASCO, Leticia	BELGIUM
06	Impact of impregnation ratio on copper adsorption by carbon adsorbents from sodium lignosulfonate obtained by phosphoric acid activation	PODKOŚCIELNA, Beata	POLAND
07	Microwave-assisted phosphoric acid activation of corncob for preparation of functionalized activated carbon	GAWDZIK, Barbara	POLAND
08	Graphene-like legos for building structural models of carbon materials obtained from cellulose	WOZNICA, Natalia	POLAND
09	PAN-based activated carbon fibers prepared by steam activation via continuous online production process	LIU, Jie	CHINA
10	Nanocrystalline Cellulose Assisted Carbon Aerogels with High efficiency for Cr (VI) and CO₂ Adsorption	WANG, Mei	CHINA
11	Preparation of mesoporous carbon spheres and their adsorption of bio-molecules	WANG, Mei	CHINA
12	Scalable Preparation of Nitrogen-enriched Carbon Microspheres for Efficient CO₂ Capture	WANG, Mei	CHINA
13	Adsorption properties of activated carbons fibers obtained from Kevlar®	DZIURA, Aleksandra	POLAND
14	Examination of the physical and chemical adsorption of phenol on the surface of the carbon sorbent during regeneration by desorption	SOLDATOV, Aleksandr	RUSSIA
15	Template assisted synthesis of porous carbon: insight in the process of the carbon deposition in the template	ERLITZ, Marcel	GERMANY
16	Carbon monoliths with hierarchical pore system obtained by template assisted synthesis	TAUBERT, Michael	GERMANY
17	Carbon-based poly-functional adsorbents	BORTUN, Anatoly	UNITED STATES

CF AND COMPOSITES

Wall N°	Title	Name	Country
18	Investigation of silicide corrosion of Carbon/carbon composites and its mechanical properties	TAN, Zhou-jian	CHINA
19	Laser-Induced High Textured Pyrocarbon Formation and Graphitization of Carbon/Carbon Composites	XIA, Lihong	CHINA
20	Preparation and characterization of carbon/carbon composites for selective laser sintering	YI, Xu	CHINA
21	Effect of gas Pressure on the Microstructure of Carbon/Carbon Composites Obtained by Isothermal, Isobaric Chemistry Vapor Infiltration	HUANG, Qun	CHINA
22	Mesophase pitch from petroleum residue for carbon fiber	CHOI, Jisu	SOUTH KOREA
23	Reduction of Quinoline insoluble fraction in Isotropic Pitch via Hydroxyl radical induced Vulcanization of Heavy aromatics	PARK, Sang Wook	SOUTH KOREA
24	Preparation of Isotropic Pitches with High Spinnability Properties from Low Rank Coals	JUNG, Doohwan	SOUTH KOREA
25	Carbonization yield improvement in cellulose-based carbon fibers by electron-beam stabilization	KIM, Min Il	SOUTH KOREA
26	The impact of hydro-fluorinated MWCNT additives on the enhanced mechanical and thermal properties of epoxy composite	LEE, Young-Seak	SOUTH KOREA
27	Physical and electrical properties of epoxy composites reinforced with fluorinated multi-walled carbon nanotubes	LEE, Young-Seak	SOUTH KOREA
28	Study on the thermal stabilization of PAN-based copolymer fiber bundles via in-situ mass spectroscopy	JOH, Han-Ik	SOUTH KOREA
29	The entry into the carbon fibre production	DE PALMENAER, Andreas	GERMANY
30	Reduction of stabilization cost for PAN-based carbon fibre manufacturing	DE PALMENAER, Andreas	GERMANY
31	Diamond like carbon films prepared by magnetron sputtering technique	MANSUROV, Zulkhair	KAZAKHSTAN
32	Modification of polyimide materials by carbon nanostructures	MANSUROV, Zulkhair	KAZAKHSTAN

ENERGY STORAGE

Wall Nº	Title	Name	Country
33	From sphere to sheet: preparation and application of biomass derived sheet-like porous carbon	YANG, Quanhong	CHINA
34	Petrochemical waste-derived high-performance anode material for Li-ion batteries	IM, Ji Sun	SOUTH KOREA
35	Carbon Xerogels as Anodes for Lithium-Ion Batteries: model materials for the study of irreversible capacity losses in carbon materials	PIEDBOEUF, Marie-Laure	BELGIUM
36	An Integrated Biorefinery: Lignin Valorisation into High Value Carbon Materials	HEROU, Servann	UNITED KINGDOM
37	Supercapacitors based on activated carbons from agricultural mill waste: adapting porosity to selected electrolytes	REDONDO, Ederne	SPAIN
38	Synthesis of Au Nanoparticles and Au@hollow carbon spheres for application in organic solar cells.	MUTUMA, Bridget	SOUTH AFRICA
39	On the impact of the carbon electrode on the performance of the sodium-oxygen battery	ADELHELM, Philipp	GERMANY
40	From pollutant to green energy: H ₂ S-motivated fabrication and applications of graphene/sulfur hybrid	YANG, Quanhong	CHINA
41	Pitfalls in the characterization of sulfur/carbon nanocomposite materials for lithium-sulfur batteries	ADELHELM, Philipp	GERMANY
42	Investigation of oxygen reduction on carbon nanotube electrodes	LIN, Wen-Yi	TAIWAN
43	Nanotexturing TiO ₂ over MWCNTs for high performing supercapacitors in organic electrolytes	RAYMUNDO-PIÑERO, Encarnacion	FRANCE
44	Influence of surface chemistry and reactivity of carbon nano-onions (CNOs) on the electrochemical behavior in supercapacitors	MOUSSA, Georges	FRANCE
45	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithium-sulfur batteries	ZHANG, Qiang	CHINA
46	Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores	ZHANG, Qiang	CHINA
47	Strongly Coupled Interfaces between Heterogeneous Carbon Host and Sulfur-Containing Guest for Highly-Stable Lithium-Sulfur Batteries	ZHANG, Qiang	CHINA
48	High-Power Li-Ion battery based on vertically aligned carbon nanotubes	PAWLITZEK, Fabian	GERMANY
49	Investigation of electrochemical performance for Li-ion batteries depending on coating pitch compositions	NAKABAYASHI, Koji	JAPAN
50	Ultraporous Nitrogen-doped zeolite-templated carbon for high energy density aqueous-based supercapacitors	CARZORLA-AMORÓS, Diego	SPAIN
51	Porous carbon nanotubes thermally transformed from polyaniline nanotubes with high electrochemical performance	SONG, Huaihe	CHINA

NANOFORMS

Wall Nº	Title	Name	Country
52	Generation of nitrogen functionalities in activated carbons by amidation reaction and Hofmann rearrangement. Electrochemical performance	GONZÁLES-GAITÁN, Carolina	SPAIN
53	Arrays, Powders and Stable Suspensions of Decorated Carbon Nanotubes and Nitrogen/Oxygen Edge-Functionalized Graphene	HORDY, Nathan	CANADA
54	Simultaneous synthesis of carbon nanotubes and nanocrystalline diamond hybrids for application in micro-electromechanical systems	FRANCO DOS SANTOS, Nuno Miguel	PORTUGAL
55	Diamond clusters nucleation control in the simultaneous MPCVD synthesis of graphene/diamond hybrids	CARVALHO, Alexandre	PORTUGAL
56	Graphene oxide dispersion with different degrees of oxidation in organic solvents	VELASCO, Miguel	MEXICO
57	Delamination of Graphite in a high pressure homogenizer	NACKEN, Thomas	GERMANY
58	Polypropylene (PP)/MWCNT composite and its Electrical and Mechanical Property	OH, Dong Hoon	SOUTH KOREA
59	CVD of graphene on Cu-Ni alloy substrates	AL-HILFI, Samir	UNITED KINGDOM
60	Large-scale Synthesis of Multi-walled Carbon Nanotubes Using Floating Copper Catalysts	HSIAO, Chung-Hsuan	TAIWAN
61	Surface treatment of diamond nanoparticles in pulsed streamer corona discharge in water	JIRÁSEK, Vít	CZECH REPUBLIC
62	Large-diameter SWCNTs Formed Alongside Small-Diameter DWCNTs	LAURENT, Christophe	FRANCE
63	Single-walled carbon nanotube as an electron acceptor studied by the observation of photoluminescence	SHIOYAMA, Hiroshi	JAPAN
64	Low temperature growth of carbon nanostructures by thermal CVD on the particles of copper nanopowders	MANSUROV, Zulkhair	KAZAKHSTAN
65	Low temperature growth of carbon nanostructures by thermal CVD on the particles of iron nanopowders	MANSUROV, Zulkhair	KAZAKHSTAN
66	Swift heavy ion irradiation-induced modification of carbon nanotubes and graphene	OLEJNICZAK, Andrzej	POLAND
67	Fabrication of Xylem-Like Monolith containing Graphene with Super-High Elasticity	PAN, Zhengze	CHINA
68	Synthesis of metal-coated multi-wall carbon nanotubes by fluidized-bed MO-CVD for aeronautic applications	MONTHIOUX, Marc	FRANCE
69	Direct animation of MWCNT graphene surface catalyzed by copper (I) iodide	PEREZ-MENDOZA, Manuel	SPAIN
70	Transparent conductive carbon films with tunable pore size	TESSIER, Pierre-Yves	FRANCE
71	Changes in the morphology of graphene materials caused by solvents	GONZÁLEZ, Zoraida	SPAIN

Wall Nº	Title	Name	Country
72	Simulation study on the effect of energy distribution of work function on the field electron emission characteristics of CNT field emitter	PARK, Sora	SOUTH KOREA
73	Industrial Scale Few Layers Graphene from Food Waste and their Applications	HUANG, Kai	FRANCE
74	Tuning graphene properties by a multi-step thermal reduction process	GONZÁLEZ, Zoraida	SPAIN
75	AFM monitorization of thermally reduced graphene oxides	GONZÁLEZ, Zoraida	SPAIN
76	Crumpled Graphene Nanoreactors	WANG, Zhongying	UNITED STATES
77	Effect of deposition angle on large-area chemical vapor deposition of carbon nanofibers	HUANG, Qi Zhong	CHINA

PHYSICAL AND CHEMICAL PROPERTIES

Wall Nº	Title	Name	Country
78	The Influence of Phosphorous Additives on the Kinetics of Graphite Foils Oxidation	MALAKHO, Artem	RUSSIA
79	The Effect of Solvent Nature on the Morphology and Properties of Graphite Nanosheets	SHORNIKOVA, Olga	RUSSIA
80	The role of topological defects on the structure and properties of glass-like carbon	JURKIEWICZ, Karolina	POLAND
81	A modular concept for the preparation of carbon based catalysts	UTGENANNT, Stephan	GERMANY
82	Electrochemistry of few-layer graphene-diamond core-shell nanoparticles	Ko, Young-Jin	SOUTH KOREA
83	Changes in the density of states and energy band gap of C-doped TiO₂. Implications in the photocatalytic activity and solar cells devices of TiO₂-based materials.	MATOS, Juan	CHILE
84	Intercalation of magnesium and calcium into boron/carbon/nitrogen materials based on the graphite network by using vapor phase reaction	ISHIKAWA, Hiromichi	JAPAN
85	Photochemical reactivity of S-doped nanoporous carbon/TiO₂ composites in the degradation of phenol under solar irradiation	MATOS, Juan	CHILE
86	Structural and chemical characterisation of porous carbons prepared by impregnation method with organic acids, their salts and steam activation	SOBIESIAK, Magdalena	POLAND
87	Dry methane reforming on Ce- and La-based catalysts supported on mesoporous carbon	MATOS, Juan	CHILE
88	Influence of deposition pressure on the texture of pyrolytic graphite during chemical vapor deposition	Hu, Xianglong	CHINA
89	Photochemical reactivity of AC/TiO₂ composites under solar irradiation: the role of the carbon functionalization	MATOS, Juan	CHILE
90	An Electron Microscopic & Spectroscopic Investigation of Graphitic Quality in a Nano-scale Carbon	VANDER WAL, Randy	UNITED STATES

POS SHOW



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W III

Wednesday, 15th July 2015

CARBON DERIVED CARBON

Wall Nº	Title	Name	Country
01	Fabrication of sustainable anode materials from bamboo sticks for lithium-ion batteries	FROMM, Olga	GERMANY
02	Bio-oil and bio-char production from filter coffee waste via slow pyrolysis	KILIC, Murat	TURKEY
03	Thermal decomposition behaviors and kinetics of bio-pitches obtained from different biomass pyrolytic oils	KILIC, Murat	TURKEY
04	Synthesis of highly porous carbon rods via bio-templating approach	ADAM, Marion	GERMANY
05	Biomass conversion into carbon biosorbents	CARVALHO, Ana Paula	PORTUGAL
06	Removal of microcystin-LR by cork-based and commercial activated carbons	MESTRE, Ana Sofia	PORTUGAL
07	New carbon materials from natural polyphenols: morphologies and potential applications	CELZARD, Alain	FRANCE
08	Biomass-derived activated carbons: promising green materials for environmental remediation	MESTRE, Ana Sofia	PORTUGAL
09	Hydrothermal Carbon-Graphene Nanocomposites	QIAO, Mo	UNITED KINGDOM
10	Graphene oxide assisted hydrothermal carbonization of carbon hydrates	KRISHNAN, Deepti	UNITED STATES
11	Pt-free Electro-catalysts for the Oxygen Reduction Reaction in Fuel Cells	PREUSS, Kathrin	UNITED KINGDOM

CARBON BLACK

Wall Nº	Title	Name	Country
12	The Investigation of Color Properties for Surface-Modified Carbon Black Materials	PARK, Soo Youl	SOUTH KOREA
13	Lignin as a Source of Carbon	FRACZEK-SZCZYPTA, Aneta	POLAND
14	Quantitative analysis of rubber polymers chemically bonded to the edge sites of carbon black	HOSHIKAWA, Yasuto	JAPAN

CF AND COMPOSITES

Wall Nº	Title	Name	Country
15	Changes in crystalline structure and pore features after gas oxidation of CFRP	KANG, Dong Su	SOUTH KOREA
16	Multi walled carbon nanotubes introduces on calcium aluminate castable using different routes	OLIVEIRA JUNIOR, Norval	BRAZIL
17	Chemical vapor deposition of carbon/carbon composites by pyrolysis of ethanol and methane	Li, Kezhi	CHINA
18	Preparation of sub-micron carbon fibre webs	HEIKKILÄ, Pirjo	FINLAND
19	Effect of graphitization degree and porosity of fuel cell gas diffusion layers on their heat management: Modeling and experiments	HUANG, Qi Zhong	CHINA
20	Study on the Preparation of Carbon Fibers with Upgraded mechanical properties from Naphtha Cracked Oil Hybridized with Coal Tar	NAKABAYASHI, Koji	JAPAN
21	Polymer and composite films as noble metal-free electrode precursors	RODENAS, Tania	GERMANY
22	Self-propagating high temperature synthesis of composition materials on the basis of TiB ₂ -TiC-MgO	ABDULKARIMOVA, Roza	KAZAKHS-TAN
23	The stress distribution in CNT/Epoxy composites with V-shaped notch	Wu, Qilin	CHINA
24	Low temperature infusibilization of pitch precursor for synthesis of carbon fiber	CHO, Kwang Youn	SOUTH KOREA
25	Investigation of tension controlling during low-temperature carbonization on the structural and mechanical properties of PAN-based carbon fibers	LIU, Jie	CHINA
26	The Effect of γ -ray Irradiation on the Microstructure and Property of Polyacrylonitrile Fiber and the Resultant Carbon Fiber	LU, Yonggen	CHINA
27	The Influence of Refractory Carbide on the Microstructure of Resin-based Carbon	ZHANG, Zhongwei	CHINA
28	Investigation of the pre-stretching process before oxidative stabilization on structural and mechanical properties of the dry-jet wet spinning PAN precursor fibers and the resulting carbon fibers	LIU, Jie	CHINA
29	Mechanical properties of the electrospun PAN based fibers processed by drawing and annealing	YOUM, Jaesung	SOUTH KOREA
30	Investigation of oxidative stabilization process on density and mechanical properties of resulting PAN-based carbon fibers under "time effect"	LIU, Jie	CHINA
31	Carbon fiber from dry-spinning of acetylated alkali lignin	LIU, Jie	CHINA
32	Supercapacitive Properties of Ni-Co Mixed Oxide Nanosheet on Carbon Nanofibers	KIM, Ji Hoon	SOUTH KOREA
33	Dynamic Hydrophobicity of Silicone/Carbon Composite Sheet with Surface Topography	YANAGISAWA, Kenji	JAPAN

Wall Nº	Title	Name	Country
34	Studies on electrodeposition of platinum nanoparticles as a function of different activated multiwalled carbon nanofibers	MUNTEAN, Roxana	GERMANY
35	N-doped C-TiO ₂ nanostructured hybrid materials for the methylene blue photocatalytic degradation under solar light irradiation	MATOS, Juan	CHILE
36	Photodegradation of phenol red on a Carbon/Ni-doped Niobate composite	MATOS, Juan	CHILE

ENERGY STORAGE

Wall Nº	Title	Name	Country
37	Functionalization of carbon nanotubes using aminobenzene acids and electrochemical methods. Electrocatalytic activity for the ORR.	RUIZ ROSAS, Ramiro	SPAIN
38	Graphene Oxide Membrane Fuel Cells	LYTH, Stephen	JAPAN
39	Carbon nanofiber-loading heteroatom-doped tin oxides as anode materials for lithium storage	YU, Yunhua	CHINA
40	Effect of Graphene Oxide on Structure and Properties of Mesophase Pitch-derived Carbon Foam	KONG, Qing	CHINA
41	Preparation of Millimeter-Size Graphene by Chemical Vapor Deposition Method with Bitumite as Solid Carbon Source	ZHANG, Yating	CHINA
42	Characterization of hierarchical porous Carbide-Derived Carbons by combined HRTEM imaging, nitrogen/carbon dioxide physisorption and Raman spectroscopy	PRÉ, Pascaline	FRANCE
43	Scalable synthesis of microporous carbon microspheres with ultra-high nitrogen-doping content for supercapacitor	WANG, Mei	CHINA
44	Nitrogen-doped Porous Carbons from Coal Liquefaction Residual for Supercapacitors	ZHOU, Ying	CHINA
45	Carbon coating of LiMn _{1-x} Fe _x PO ₄ using amphiphilic carbonaceous material for improvement of electrochemical performance	WANG, Chengyang	CHINA
46	Multilayered Graphene-Biopolymer Supercapacitor	NAVARRO-SUÁREZ, Adriana	SPAIN
47	Synthesis of graphene/carbon nanoparticle composites and their performance of electrochemical energy storage	LIAO, Chien-Shiun	TAIWAN
48	Carbide-derived carbon materials with hierarchical pore structure as cathode component in lithium-sulfur batteries	OSCHATZ, Martin	GERMANY
49	The Kroll-Concept for Advanced Synthesis of Mesoporous Carbons: Reductive Carbochlorination of Carbon/Metal Oxide Composites	OSCHATZ, Martin	GERMANY

Wall N ^o	Title	Name	Country
50	Role of the Solid Electrolyte Interface (SEI) on Graphite Anode for High-Performance Lithium Ion Battery in Ionic Liquid	KISHIDA, Kazuhisa	JAPAN
51	Preparation of PtSn Catalyst Supported on Carbon Nanotubes by Microwave-heated Polyol Process	CHEN, Shuixie	CHINA
52	N-functionalized Carbon-based electrode materials by urotropine addition	STRATEN, Jan-Willem	GERMANY
53	Efficient synthesis of hierarchical porous carbons for application in Li-S cells	STRUBEL, Patrick	GERMANY
54	The role of nitrogen groups in carbon frameworks for CO ₂ capture and storage: Insights from molecular simulations	KANNUCHAMY, Vasanth Kumar	UNITED KINGDOM
55	Ionic liquid-derived activated carbon	ROH, Kwang Chul	SOUTH KOREA
56	Unusual Ultra-Hydrophilic Porous Carbons for Atmospheric Water Capture and Energy-Related Applications	HAO, Guang-Ping	GERMANY

INDUSTRIAL

Wall N ^o	Title	Name	Country
57	A study on the degassing behaviour of graphite felts for the insulation of vacuum furnaces	KERN, Alexander	GERMAN
58	High Quality Graphite Thin Film by Pyrolysis of Polymer Film	MURAKAMI, Mutsuaki	JAPAN
59	Modification of coal tar pitch-based carbon binders with nano- and micro-sized components for carbon & graphite technology	GUBERNAT, Maciej	POLAND
60	Alternative binder precursors for carbon and graphite manufacture	LIS, Tomasz	POLAND
61	Changes in microstructure due to carbonization of phenol resin	KANG, Dong Su	SOUTH KOREA
62	Permeation effect to micro pore depending on the viscosity of impregnant during bulk graphite manufacturing	LEE, Sang Min	SOUTH KOREA
63	Anode Coke from Coal – A Low Cost Approach	WEISENBERGER, Matthew	UNITED STATES
64	Double-layer CVD graphene as stretchable transparent electrodes	KYUNG-SHIK, Kim	SOUTH KOREA
65	Structure and properties of mesophase pitch-derived carbon foams reinforced by mesocarbon microbeads	TZENG, Shinn-Shyong	TAIWAN

NANOFORMS

Wall Nº	Title	Name	Country
66	Advanced Template Removal Approach Towards Ordered Mesoporous Carbons	NICKEL, Winfried	GERMANY
67	Two different and efficient approaches to brominate Multi-Wall Carbon Nanotubes: microwave cold plasma and interhalogen compounds treatments	ABDELKADER-FERNANDEZ, Victor Karim	SPAIN
68	Preparation of Graphene Nanoplatelets from Polyimide-derived Graphite Film by GIC (Graphite Intercalation Compound) via Process	PARK, Sei-Min	SOUTH KOREA
69	Activation Energy Variation in the Chemical Vapor Deposition of Carbon Nanotubes under Temperature Gradient	YANG, Ning	SWITZERLAND
70	Janus graphene nanosheets from water-oil interface	SONG, Huaihe	CHINA
71	Preparation and application of a collimated high-brightness electron beam using a miniature carbon nanotube paste emitter	CHOI, Young Chul	SOUTH KOREA
72	Floating Transfer of Residual-Free Graphene using Water Surface	SEO, Jeongmin	SOUTH KOREA
73	Non-doped conducting porous nanodiamond film applied for the electrochemical detection of dopamine in the presence of uric acid and ascorbic acid	CHO, Jung-Min	SOUTH KOREA
74	Mesophase Pitch-Assisted Dispersion of Single-Walled Carbon Nanotubes	SHIN, Eun Ae	SOUTH KOREA
75	High flexibility, orientation and thermal conductivity of free-standing graphene films reduced via hot-pressing assisted thermal annealing	JIN, Minling	CHINA
76	Kinetic Trapping of Unstable Emulsions using Self-Assembled Graphene Molecular Barriers	CREIGHTON, Megan	UNITED STATES
77	Towards mass production of high quality multi-walled carbon nanotubes: An industrial safe-by-design and sustainable approach	KOUMOULOS, Elias	GREECE
78	Synthesis of CNT supported metal nanoparticles and covered with a few graphene layers as M@CNT hybrid materials	GALLEGO, Jaime	COLOMBIA
79	Stable Aqueous Dispersions of Functionalized Graphene by Pulsed Underwater Plasma Exfoliation of Graphite	MEYER-PLATH, Asmus	GERMANY
80	Assessment of Workplace Exposure to Carbon Nanotubes with Personal and Stationary Instruments	MEYER-PLATH, Asmus	GERMANY
81	A strategic approach to REACH-related testing and information requirements for nanomaterials and other particulate matter	MEYER-PLATH, Asmus	GERMANY
82	Preparation and photoluminescence properties of heteroatom doped carbon dots	YANG, Yongzhen	CHINA
83	Facile hydrothermal synthesis of spherical CdLa ₂ S ₄ nanoparticles modified graphene composite and detection of oxygen species in decolorization of Texbrite dyes	OH, Won-Chun	SOUTH KOREA

Wall N ^o	Title	Name	Country
84	Production of large area graphene/CNTs on Cu foil using low temperature CVD techniques: A novel approach towards future graphene/CNTs based technologies	OH, Won-Chun	SOUTH KOREA
85	Synthesis of large-scale graphene in the flame with an electric field at low pressure	PRIKHODKO, Nikolay	KAZAKHSTAN
86	Nanophase transformations of carbon particles	GLAGOLEV, Vladimir	KAZAKHSTAN
87	Oxygen diffusion and aromatization-structure formation in electrospun PAN copolymer nanofibers during oxidative stabilization process	LIU, Jie	CHINA
88	Unstacking double-layer templated graphene	ZHANG, Qiang	CHINA

CONVERSION PROCESSES

Wall N ^o	Title	Name	Country
89	Co-pyrolysis of oil shale-PET mixtures using TGA/FT-IR: kinetics and evolved gas analysis	KILIC, Murat	TURKEY
90	Catalytic pyrolysis of oil sludge over ZSM-5 catalyst for hydrocarbon production	KILIC, Murat	TURKEY
91	Production of Bio-char from stone coal and its properties	YARGIC, Adife Seyda	TURKEY

Thursday, 16th July 2015

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9:00 am to 4:00 pm

(max. 90 posters)



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