



Tuesday 17th April - Morning

Plenary Session

Opening Session

9:30 – 09:40	Harald Bolt , Conference Chair <i>Greeting</i>	Auditorium 2
9:40 – 09:55	Mark Dierikx , Ministry for Economic Affairs, NL <i>Greeting</i>	
09:55 – 10:00	Guenther Oettinger , European Commission <i>Video message</i>	
10:00 – 10:30	Javier Solana , Former Secretary General of NATO Title: <i>Energy on an international basis</i>	
10:30 – 11:00	Steven Koonin , Science and Technology Policy Institute, USA Title: <i>The US Perspective on the Energy Challenge</i>	
11:00 – 11:30	Coffee Break	Expo Foyer

Plenary Session

11:30 – 12:10	Jeroen van der Veer : Former CEO, Shell, NL <i>Thoughts for your Energy</i>	Auditorium 2
12:10 – 12:50	Bernard Bigot - CEA Chairman, France Title: <i>What R&D program for a fully non carbon energy supply by 2050?</i>	
13:00 – 14:00	Lunch Break	Expo Foyer



Tuesday 17th April - Afternoon

Breakout Session A.1.01 – CO₂ separation and storage

Symposium 3 “Primary Energy Conversion”

Chair: *		ROOM 0.4 BRUSSELS
14:00 -14:30	Wim Turkenburg Utrecht University – The Netherlands	
Key-note	Title: *	
14:30 -14:50	Juri Barthel, Stefan Roitsch and Joachim Mayer RWTH Aachen - Germany Title: <i>Investigation of the Structural Stability of Ceramic Gas-Separation Membrane Materials by Transmission Electron Microscopy</i>	
14:50 -15:10	Andreas Ehinger, Ruud Van Den Brink and Sergio Persoglia Title: <i>EERA Joint Programme on Carbon Capture and Storage - recent advances and the road ahead</i>	
15:10 -15:30	Colin Nolden University of Exeter, United Kingdom Title: <i>The governance of innovation diffusion – a socio-technical analysis of energy policy</i>	

Breakout Session A.1.02 – Economic and socioeconomic aspects of energy

Symposium 1 “Systems Aspects and Sustainability”

Chair: Hardo Bruhns, University of Heidelberg, Germany		ROOM 0.5 PARIS
14:00 -14:30	Rainer Friedrich IER, University of Stuttgart - Germany	
Key-note	Title: <i>Integrated Assessment of electricity generation technologies</i>	
14:30 -14:50	Adelino Pereira and Joao Saraiva Instituto Superior de Engenharia de Coimbra, INESC Porto - Portugal Title: <i>Evaluation of the Impact of Wind Generation in the Electricity Market Prices and on the Profitability of New Wind Investments</i>	
14:50 -15:10	Gregor Zoetl University of Munich - Germany Title: <i>Emission Trading Systems and the Optimal Technology Mix</i>	
15:10 -15:30	Stephan Nagl, Michaela Fürsch and Dietmar Lindenberg Institute of Energy Economics at the University of Cologne - Germany Title: <i>The cost of electricity systems with a high share of fluctuating renewables - a stochastic investment and dispatch optimization model for Europe</i>	



Breakout Session A.1.03 – Low carbon session

Symposium 2 “Sciences for Energy”

Chair: Nicola Armaroli, *EUCheMS, Italy*

14:00 -14:30 Edward Jonson

Key-note Volvo – Sweden

Title: *Progress of Energy efficiency in person transports*

14:30 -14:50 Klaus Mueller, David Hoffmannbeck, Georg Kirner, Matthias Staedter and Dieter Schmeisser

Brandenburgische Technische Universität Cottbus, Angewandte Physik - Germany

Title: *CO2-Methanation by Catalytic Conversion*

14:50 -15:10 Jay Anand and Dr. Arivudai Nambi

M.S.Swaminathan Research Foundation - India

Title: *Policy vision for bamboo as a bioresource by community acceptance: A case study of Nagaland, North east India*

15:10 -15:30 David Haumann, Gerold Göttlicher and Wolfram Münch

EnBW Energie Baden-Württemberg AG - Germany

Title: *Energy and greenhouse balance of photocatalytic CO2 conversion to methano*

ROOM 0.8
ROME

15:30 – 16:30

Coffee Break - Poster Session

Expo Foyer



Breakout Session A.2.01 – Concentrated solar power and geo energy

Symposium 3 “Primary Energy Conversion”

Chair: Aad Gordijn, Forschungszentrum Jülich, Germany

16:30 -17:00 Michael Düren

Key-note DESERTEC foundation - Germany

Title: *The DESERTEC Academic Network*

17:00 -17:20 Robert Pitz-Paál and John Holmes

Deutsches Zentrum für Luft- und Raumfahrt (DLR) – Germany
EASAC, United Kingdom

Title: *Concentrating solar power in Europe, the Middle East and Europe: achieving its potential*

17:20 -17:40

Wolfgang Hering, Robert Stieglitz and Thomas Wetzel

Karlsruhe Institute of Technology (KIT) - Germany

Title: *Application of liquid metals for solar energy systems*

17:40 -18:00

Magdalena Scheck-Wenderoth and Michaela Boek

German Research Centre for Geosciences GFZ

Title: *GeoEn - Geo-Energy Research*

ROOM 0.4
BRUSSELS

Breakout Session – Regulatory issues and technical systems

Symposium 1 “Systems Aspects and Sustainability”

Chair: Alex Bradshaw, MPI for Plasma Physics and Fritz-Haber Institute, Germany

16:30 -17:00 Juho Lipponen

Key-note IEA Paris - France

Title: *Global energy future: is there a role for CCS?*

17:00 -17:20

Michael Ornetzeder, Harald Rohrer and Petra Wächter

Austrian Academy of Sciences
University of Klagenfurt - Austria

Title: *Sociotechnical scenarios for the Austrian energy system*

17:20 -17:40

Lisa Lee

Institute for Advanced Studies, United Nations University - Japan

Title: *Regulatory Oversight of the African Biofuel Feedstock Industry and Landuse Alternatives*

17:40 -18:00

Veronika Grimm and Gregor Zöttl

University of Erlangen Nuremberg
University of Munich - Germany

Title: *Investment Incentives and Electricity Spot Market Competition*

ROOM 0.5
PARIS



Breakout Session A.2.03– Emerging Networks

Symposium 4 “Energy Networks and Storage”

Chair: Gorm Brun Andresen, Aarhus University, Denmark

16:30 -17:00 TBC

Key-note

17:00 -17:20 **W. Art, P. Wasserscheid and D. Teichmann**

FAU - Germany

Title: *A future energy supply based on Liquid Organic Hydrogen Carriers (LOHC)*

17:20 -17:40 **Peter Wasserscheid, Wilhelm Schwieger, Willi Peters, Amer Inayat, Carolin Körner and Jan Schwerdtfeger**

Universität Erlangen-Nürnberg - Germany

Title: *Advanced catalytic technologies for loading and unloading*

17:40 -18:00 **Ralf-Roman Schmidt, Daniele Basciotti and Olivier Pol**

AIT Austrian Institute of Technology - Austria

Title: *Smart thermal networks for smart cities – Introduction of concepts and measures*

ROOM 0.9
ATHEN



Wednesday 18th April - Morning

Opening session Day 2

9:00 – 09:40

Alfred Voss, IER, University of Stuttgart, Germany

Title: *Transformation Towards a Sustainable European Energy System – Which Roadmap*

9:40 – 10:10

Lorenz Singheiser, Forschungszentrum Jülich, Germany

Title: *Materials for Energy Applications with Tailored Properties and Lifetime*

10:10 – 11:00

Dan Arzivu, National Renewable Energy Laboratory, USA

Title: *New Insights Into Innovation: How “Deliberate Science” Can Expedite, Enhance and Extend Technology Development*

Auditorium 2

11:00 – 11:30

Coffee Break

Expo Foyer

Plenary Session Day 1

11:30 – 12:10

James Barber, Imperial College London, Division of Molecular Biosciences, United Kingdom

Title: *From Natural to Artificial Photosynthesis for Solar Fuel Production*

12:10 – 12:50

Peter Nagler, Innovation Management Chemicals & Creavis, Evonik, Germany

Title: *Innovation for Energy Efficiency and Climate Protection*

Auditorium 2

13:00 – 14:00

Lunch Break

Expo Foyer



Wednesday 18th April - Afternoon

Breakout Session B.1.01 – Nuclear Session

Symposium 3 “Primary Energy Conversion”

Chair: Claude Deguelgre, PSI, CH

14:00 -14:30	Jean-Marc Cavedon PSI, Switzerland	ROOM 0.4 BRUSSELS
	Key-note Title: <i>Nuclear Safety</i>	
14:30 -14:50	Sanna Syri, Taina Kurki-Suonio and Ville Satka Aalto University, Finland	
	Title: <i>Increasing nuclear power at liberalised energy markets - case of Finland</i>	
14:50 -15:10	Anton Moeslang, Eberhard Diegele, Sergei Dudarev, Sehila Gonzalez De Vicente and Michael Rieth Karlsruhe Institute of Technology, Germany F4E, Spain Culham Centre for Fusion Energy, United Kingdom EFDA Close Support Unit – Garching, Germany	
	Title: <i>High Temperature Applications: The European Integrated Fusion Materials Programme</i>	
	Jean-Pierre Didelez and Claude Deutsch Polarization	
15:10 -15:30	IPN, ORSAY, France LPGP, ORSAY, France	
	Title: <i>A Must for Fusion</i>	

Breakout Session B.1.02 – Material Session

Symposium 2 “Sciences for Energy”

Chair: Bengt Kasemo, Chalmers University of Technology, SE

14:00 -14:30	Robert Schoegl	ROOM 0.5 PARIS
	Key-note Title: *	
14:30 -14:50	Anja Bieberle-Hütter, Alejandro J. Santis, Bo Jiang, Peter Heeb, Majid Nabavi, Dimos Poulikakos, Thomas Maeder, Lukas Bischof, Philippe Niedermann, Alex Dommann and Ludwig J. Gauckler ETH Zurich, Switzerland EPF Lausanne, Switzerland Interstate University of Applied Sciences Buchs, Switzerland CSEM, Switzerland	
	Title: <i>Micro-reformer for syngas generation for micro-solid oxide fuel cells</i>	
	Stefan Hürter, Martin Dr. Müller, Michael Dr. Guiver and Prof. Dr. Stolten	
14:50 -15:10	Forschungszentrum Jülich GmbH, Germany National Research Council Canada	
	Title: <i>Hydrocarbon Electrolytes with Nitrile Groups for Direct Methanol Fuel Cells</i>	



Dr. Magnus Rohde, Dr. Carlos Ziebert and Prof. Dr. Hans Jürgen Seifert

15:10 -15:30

Karlsruhe Institute of Technology, Institute for Applied Materials - Applied Materials Physics, Germany

Title: *Material development for solid state electrolytes for advanced Li-ion cells*

Breakout Session B.1.03 – Solar Cells: Materials and Processing

Symposium 3 “Primary Energy Conversion”

Chair: Richard Van De Sanden, DIFFER

14:00 -14:30	Aad Gordijn, Tsvetelina Merdzhanova, Friedhelm Finger and Uwe Rau Forschungszentrum Jülich, Germany	ROOM 0.8 ROME
	Key-note Title: <i>Processes for Cost-Effective Production of Thin-Film Silicon Solar Cells</i>	
14:30 -14:50	Pavel Troshin, Ekaterina Levchenkova, Diana Susarova, Nataliya Piven, Kseniya Lizgina, Yury Moskvina, Zayana Dzhivanova, Sergei Babenko and Vladimir Razumov IPCP RAS, Russian Federation Institute for Energy Problems of Chemical Physics of RAS (Branch), Russian Federation	
	Title: <i>New methods for evaluation of compositional purity and photochemical stability of conjugated polymers designed for photovoltaic applications</i>	
14:50 -15:10	Jinglai Duan, Jie Liu, Huijun Yao, Dan Mo and Yonghui Chen Materials Research Centre, Institute of Modern Physics, Chinese Academy of Sciences, China	
	Title: <i>Surface plasmon resonances of metallic nanowire arrays</i>	
15:10 -15:30	Villy Sundstrom Lund University, Sweden	
	Title: <i>Nanostructured materials for solar energy conversion – the primary steps for light to charge</i>	

Breakout Session B.1.04– Distribution networks and electricity

Symposium 4 “Energy Networks and Storage”

Chair: Teresa Ponce de Leao, LGETI, Portugal

14:00 -14:30	Prof. João Peças Lopes INESCTEC & FEUP – Portugal	ROOM 0.9 ATHEN
	Key-note Title: <i>New Challenges for the Electrical Distribution Grids</i>	
14:30 -14:50	G K H Larsen, N D Van Foreest and J M A Scherpen University of Groningen – The Netherlands	
	Title: <i>A price mechanism for supply demand matching in local grid of households with micro-CHP</i>	



14:50 -15:10	Paulo Bonifacio, Susana Viana, Luis Rodrigues and Ana Estanqueiro LEN – UESEO - Portugal Title: <i>Assessment of Micro-Generation and Electrical Vehicles' Impact in the Power Quality of Low and Medium Voltage Distribution Networks</i>	
	Friederich Kupzog Institute of Computer Technology, Vienna University of Technology - Austria Title: <i>The role of information and communication technology in future energy systems</i>	

15:30 – 16:30	Coffee Break - Poster Session	Expo Foyer
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Breakout Session B.2.01 – Nuclear Session

Symposium 3 “Primary Energy Conversion”

Chair: Claude Deguelgre, PSI, CH

16:30 -17:00	Christophe Poinssot and Bernard Bouillis] French Nuclear Energy and Alternatives Energies Commission, France Key-note Title: <i>Promoting a sustainable nuclear energy by recycling the actinides: once-through versus closed fuel cycle scenario</i>	ROOM 0.4 BRUSSELS
	Sergei Lemehov SCK•CEN, Nuclear Materials Science Institute, Belgium Title: <i>Analysis of Inert Matrix Fuel Behaviour in Thermal Reactor Conditions - European In-Pile Tests</i>	
17:00 -17:20	Alexander Ochkin, Dmitry Gladilov and Serge Stefanovsky D.Mendeleev University of Chemical Technology of Russia SIA Radon, Russia Title: <i>Comparison of radiation hazard of h/w in several spent nuclear fuel reprocessing scenarios</i>	
17:20 -17:40	Hilde Curtius, Dirk Bosbach and Sabrina Labs Forschungszentrum Jülich, Germany Title: <i>Disposal of Spent Fuel-Radionuclide Release and Secondary Phases</i>	

17:40 -18:00



Breakout Session B.2.02 – Materials Session

Symposium 2 “Science for Energy”

Chair: *		ROOM 0.5 PARIS
16:30 -17:00	TBC	
17:00 -17:20	Jean-Pierre Fleurial and Sabah Bux Jet Propulsion Laboratory, United States Title: <i>Nanostructured Bulk Materials for Efficient Thermoelectric Power Generation</i>	
	Tilmann Beck, Bernd Kuhn, Willem J. Quadackers, Trunova Olena, Roland Herzog and Lorenz Singheiser Forschungszentrum Jülich - IEK-2, Germany MAN Diesel & Turbo SE, Germany Title: <i>Development of a Laves-Phase strengthened ferritic high-temperature alloy and life prediction of thermal barrier coatings for high-efficiency power plants</i>	
17:20 -17:40	Paula Bauer Pereira, Tania Claudio and Raphael P. Hermann Forschungszentrum Jülich, Germany Title: <i>Effects of Nanostructuring on the Lattice Dynamics of Thermoelectric Si, AgPbmSbTem+2 (LASTm) and FeSb2</i>	
17:40 -18:00		

Breakout Session B.2.03– Energy in Buildings

Symposium 5 “Efficient end Use of energy”

Chair: Helder Goncalves, National Laboratory of Energy and Geology, I.P. Portugal		ROOM 0.8 ROME
16:00 -16:30	Christoph Van Treec RWTH Aachen University, Chair in Energy Efficient Building Design, Faculty for Civil Engineering, Germany Key-note Title: <i>Towards a human-centred view on energy efficiency and thermal quality performance</i>	
	16:30 -16:50	
16:50 -17:10	Amine Tilioua, Laurent Libessart, Annabelle Joulin, Stephane Lassue, Bernard Monod and Gérard Jeandel Hei, France LGCgE, France LEMTA Nancy, France Title: <i>Characterization and modeling of heat transfer through fibrous insulation</i>	
	17:10 -17:30	



(ENEA), Italy
University of Calabria, Italy

Title: *Building lighting energy consumption modelling with hybrid neural-statistic approaches*

Ian Hamilton, Philip Steadman and Robert Lowe

University College London, United Kingdom

Title: *The impact of energy efficiency refurbishment in the UK residential sector*

17:30 – 17:50

Breakout Session B.2.04– Energy Resources and Potentials

Symposium1 “Systems Aspects and Sustainability”

Chair: Cayetano Lopez, CIEMAT, ES

16:30 -17:00 José Javier Armendáriz

National Renewable Energy Center, Spain

Key-note

Title: *Public support to Renewable energy sources*

Alex Bradshaw and Thomas Hamacher

MPI for Plasma Physics and Fritz-Haber Institute, Germany
Institute for Energy Economics, TU Munich, Germany

17:00 -17:20

Title: *Non-regenerative natural resources in a sustainable system of energy supply*

Helena Cabal, Yolanda Lechon, Umberto Ciorba, Francesco Gracceva, Tobias Eder, Thomas Hamacher, Antti Lehtila, Markus Biberacher, Poul Erik Grohnheit, David Ward, Winston Han and Andre Pina

CIEMAT, Spain
ENEA, Italy
IPP, Germany
VTT, Finland
OEAW, Austria
Risoe DTU, Denmark
UKAEA, United Kingdom
IST, Portugal

17:20 -17:40

Title: *Analysing the role of fusion power in the future global energy system*

Roman Adinberg

Weizmann Institute of Science, Israel

17:40 -18:00

Title: *Evaluation of Solar Thermal Storage for Base Load Electricity Generation*

ROOM 0.9
ATHEN



Thursday 19th April - Morning

Opening session Day 3

Marianne Haug, Universität Hohenheim, Germany

Title: *Sustainable Energy: The RD&D, Policies and Systems Nexus*

9:00 – 09:40

Andreas Wahner, Forschungszentrum Jülich, Germany

Title: *

9:40 – 10:20

Remi Bastien, Renault, France

Title: *Sustainable energy : the automotive industry is a key part of the solution*

10:20 – 11:00

11:00 – 11:30

Coffee Break

Plenary Session Day 3

Martin Winter, University of Muenster, MEET, Germany

Title: *Materials for electrified power trains – from tradition to innovation and back*

11:30 – 12:10

Thomas Madreiter, City of Vienna

Title: *Vienna – transforming to a smart city*

12:10 – 12:50

13:00 – 14:00

Lunch Break

Auditorium 2

Expo Foyer

Auditorium 2

Expo Foyer



Thursday 19th April - Afternoon

Parallel Session C.1.01 – ESFRI Session

Chair: Gabriele Fioni, Ministry for Higher Education and Research, France

14:00 -15:30 **Special Session: ESFRI Energy Research Infrastructures**

ROOM 0.4
BRUSSELS

Parallel Session C.1.02 – Networks Electricity

Symposium 4 “Energy Networks and Storage”

Chair: Ana Estanqueiro, Director of the Wind and Ocean Energy Research Unit of INETI

14:00 -14:30 **Gorm Bruun Andresen, Morten Grud Rasmussen and Martin Greiner**

Department of Engineering, Aarhus University, Denmark

Key-note **Title:** *Fundamental properties of and transition to a fully renewable pan-European power system*

Rüdiger Barth, Jürgen Apfelbeck and Niklas Hartmann

University of Stuttgart - Institute for Energy Economics and the Rational Use of Energy, Germany

14:30 -14:50 **Title:** *Optimal structure and operation of the European electricity system to accommodate high shares of renewables*

Manuel Rocha and Joao Saraiva

14:50 -15:10 **Title:** *Transmission Expansion Planning - A Multiyear Dynamic Approach Using a Discrete Evolutionary Particle Swarm Optimization Algorithm*

Luis De Andrade and Teresa Ponce De Leão

Faculdade de Engenharia da Universidade do Porto, Portugal

15:10 -15:30 **Laboratorio Nacional de Energia e Geologia, Portugal**

Title: *Traveling wave-based fault location analysis for transmission lines*

ROOM 0.5
PARIS

Parallel Session C.1.03 – Solar Session

Symposium 2 “Sciences for Energy”

Chair: Sven Kullander - Royal Swedish Academy of Sciences, SE

14:00 -14:30 **Frank Dimroth**

Fraunhofer Institute for Solar Energy Systems, Germany

Key-note **Title:** *High Efficiency Multi-Junction Solar Cell Technologies*

Jos Haverkort, Erik Bakkers, Thuy Vu and Tilman Zehender

Eindhoven University of Technology, The Netherlands

14:30 -14:50 **Title:** *Nanowire Solar Cells*

14:50 -15:10 **Lanny Baeten, Bert Conings, Hans-Gerd Boyen, Jan D’Haen, An**

ROOM 0.8
ROME



Hardy, Jean V. Manca and Marlies K. Van Bael

Hasselt University - Institute for Materials Research - Inorganic and Physical Chemistry, Belgium

Title: *Towards efficient hybrid solar cell based on nanostructured metal-oxides*

Ulrich W. Paetzold, Etienne Moulin, Karsten Bittkau, Bart E. Pieters, Uwe Rau and Reinhard Carius

15:10 -15:30 **IEK5 - Photovoltaik, Forschungszentrum Juelich GmbH, Germany**

Title: *Nanostructured Plasmonic Back Contacts For Light-Trapping In Thin-Film Silicon Solar Cells*

Parallel Session C.1.04 – Energy in cities

Symposium 5 “Efficient end use of energy”

Chair: Jessen page, Austrian Institute of Technology, Austria

14:00 -14:30 **Robinson Darren**

University of Nottingham, United Kingdom

Key-note **Title:** *Transforming the carbon intensity of European cities*

14:30 - 15:00 **Raupenstrauch Harald**

University Loeben, Germany

Key-note **Title:** *

Robert Horbaty

CEO of Energy City Association, EEA-trustee, Switzerland

15:00 - 15:20 **Title:** *“European Energy Award”, Innovative management tool for Smart Cities*

Ana Soares, Alvaro Gomes and Carlos Henggeler Antunes

INESC Coimbra / University of Coimbra, Portugal

15:20 - 15:40 **Title:** *Integrated Management of Residential Energy Resources*

Daiva Jakutyte-Walangitang and Jessen Page

Austrian Institute of Technology, Austria

15:40 : 16:00 **Title:** *A Low Carbon City Action Plan for one of China's Low Carbon Pilot Cities*

ROOM 0.9
ATHEN

15:30 – 16:30 **Coffee Break - Poster Session**

Expo Foyer



Parallel Session C.2.01 – Health Effects and Systems Aspects

Symposium 1 "Systems Aspects and Sustainability"

Chair: *		ROOM 0.4 BRUSSELS
16:30 -17:00	Bettina Menne WHO European Centre for Environment and Health, Bonn	
Key-note	Title: <i>Electricity Generation Related Health Effects in the European Region</i>	
17:00 -17:20	*	
17:20 -17:40	Michaela Fürsch, Simeon Hagspiel, Cosima Jägemann, Stephan Nagl, Dietmar Lindenberger and Eckehard Tröster Institute of Energy Economics at the University of Cologne, Germany Energynautics GmbH, Germany Title: <i>Cost-efficient transformation of the European electricity system and the role of grid extensions</i>	
17:40 -18:00	Stefan Weitemeyer, Thomas Feck and Carsten Agert NEXT ENERGY - EWE-Forschungszentrum für Energietechnologie e.V., Germany Title: <i>MOSES - A Modelling Tool for the Analysis of Scenarios of the European Electricity Supply System</i>	

Parallel Session C.2.02 – Energy Storage

Symposium 4 "Energy Networks and Storage"

Chair: Carmen Rangel, LNEG - National Laboratory for Energy and Geology, Portugal		ROOM 0.5 PARIS
16:30 -17:00	Luciano Martini EERA	
Key-note	Title: *	
17:00 -17:20	Johannes Huynen, Ruut Schaliij and Twan Arts Sogecom BV, Netherlands Title: <i>Flat-land Large-scale Electricity Storage (FLES)</i>	
17:20 -17:40	W. Art, B. Müller and K. Müller FAU, Germany Title: <i>Energy storage by Liquid Organic Hydrogen Carriers and the Sabatier-Reaction: A comparison of energy efficiency</i>	
17:40 -18:00	Vitor V. Lopes, Carmen M. Rangel and Augusto Q. Novais LNEG - National Laboratory for Energy and Geology, Portugal Title: <i>Analysis and interpretation of PEM Fuel Cell impedance spectroscopy data using distribution of relaxation-times</i>	



Parallel Session C.2.03– Solar Session

Symposium 2 "Science for Energy"

Chair: Augustin Mc Evoy, Dyesol Ltd, AU		ROOM 0.8 ROME
16:30 – 17:00	Leif Hammarström Uppsala University, Sweden	
Key-note	Title: <i>Direct Pathways to Solar Fuels</i>	
17:00 -17:20	Mikael Syväjärvi, Peter Wellmann and Haiyan Ou Linköping University, Sweden University of Erlangen-Nuremberg, Germany Technical University of Denmark Title: <i>Fluorescent silicon carbide materials for white LEDs and photovoltaics</i>	
17:20 -17:40	Esther Groeneveld, Susanne Van Berkum and Celso De Mello Donegá Debye Institute, Utrecht University, Netherlands Title: <i>Highly Luminescent colloidal heteronanowires for solar energy harvesting and conversion</i>	
17:40 -18:00	Lu-Yin Lin and Kuo-Chuan Ho Department of Chemical Engineering, National Taiwan University Title: <i>Recent progress and challenge on the metal-based dye-sensitized solar cells</i>	

Parallel Session C.2.04

Symposium 3 "Primary Energy Conversion"

Chair:		ROOM 0.9 ATHEN
16:30 – 17:00	Rene Wölfel, Jakob Albert, Andreas Bösmann and Peter Wasserscheid Chair of Chemical Reaction Engineering, University Erlangen, Germany	
Key-note	TITLE: <i>Catalytic conversion of complex biomass to formic acid using molecular oxygen</i>	
17:00 -17:20	Brian Horsfield, Andreas Hübner and Ingo Kapp Shale GFZ German Research Centre for Geosciences Title: <i>Gas in Europe: pragmatic perspectives and actions</i>	
17:20 -17:40	Henrich Frielinghaus, Michael Kerscher and Olaf Holderer Forschungszentrum Jülich GmbH Title: <i>Microemulsions as Model Fluids for Enhanced Oil Recovery: Dynamics Adjacent to Planar Hydrophilic Walls</i>	
17:40 -18:00	Jan Meißner, Joachim Pasel and Ralf Peters Forschungszentrum Jülich TITLE: <i>Catalytic Burner with internal steam generation for a zero-emission fuel cell based APU for middle distillates</i>	



Friday 20th April - Morning

Opening session Day 4

9:00 – 09:40	<p>Luis Atienza, Red Electrica de Espana Title: <i>Transmission System Operation Challenges Of The Growth Of Renewables</i></p>	Auditorium 2
9:30 – 10:50	<p>Osamu Motojima, ITER Title: <i>The ITER Project – taking fusion energy to the industrial scale</i></p> <p>Francesco Romanelli, EFDA Leader Title: <i>The role of JET and ITER in the path to Fusion Energy</i></p>	
10:50 – 11:20	Coffee Break	Expo Foyer

Plenary Session Day 4

11:20 – 12:30	<p>Panel Discussion <i>European Dimension of energy research and innovation</i> Panel discussion members are:</p> <p>Herve Pero ,EU Commission, Research and Innovation DG, Directorate Energy</p> <p>Hans-Jörg Bauer, KIC InnoEnergy</p> <p>Beatrix Vierkorn-Rudolph , ESFRI Chair</p> <p>Henrik Bindslev, Aarhus University, EERA Chairman, KIC</p>	Auditorium 2
12:30 – 12:50	Jerzy Buzek, EU parliament (TBC)	
12:50 – 13:00	<p>Harald Bolt, Forschungszentrum Jülich, Germany Closing remarks</p>	



13:00 – 14:00	Lunch Break	Expo Foyer
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