THE INTERNATIONAL SYMPOSIUM ON ENERGY

Presentation Schedule + Delegate Listing

13-17 August 2017
ROOM DIRECTORY

Central Park.................................Floor 4
Congress.................................Floor 2 Mezzanine
Hyde Park.................................Floor 4
International Suite...............Floor 3
Park Avenue..............................Floor 4
Park Lane.................................Floor 4
Portland.................................Floor 1
Senate.................................Floor 2 Mezzanine
Victoria Park..............................Floor 4

WANT MORE DETAILS?

For speaker bio sketches, detailed session descriptions and abstracts, please visit our website:
http://energy7.nscj.co.uk/Sessions.html

SESSION TOPICS

The following topics are arranged into Parallel Sessions:

Aachen  Energy policy
Argonne  Energy storage
Arlington  Techniques beneficial to the energy sector
Beijing  China's energy and environmental challenges
Berlin  Climate change and energy
Cambridge  Nano energy
Dallas  Energy catalyst
Dublin  Heating and cooling
Edinburgh  Energy and environment
Haifa  Energy security
Hamburg  Energy economy
Hiroshima  Energy and superconductivity
Houston  Oil and Gas
Juelich  Transformation of energy systems
Liverpool  Energy harvesting
Manchester  Nuclear energy
Oxford  Energy efficiency
Paris  Renewable integration and power distribution
Rutgers  Porous materials and structures for energy applications
Seoul  Bioenergy
Shanghai  Safety and integrity management for the energy industry
Spokane  Optimizing, greening to smarting
Uppsala  Environmental impact of materials
Warsaw  Dealing with waste
Washington  Biomass conversion technologies
Waterloo  Nexus of water systems, food and energy
Windsor  Fuel cells
Yale  Sustainable energy, transportation and urban systems
POSTER EXHIBITION

Argonne Session: Energy storage
- Postinfiltrating Manganese Oxide into Carbon Nanosphere Multilayers for High-Performance Electrochemical Supercapacitors - Yanyan Song, Northeastern University, China
- Design of Hybrid Gel Polymer Electrolytes for Lithium Ion Batteries - Seung Sang Hwang, Korea Institute of Science and Technology, Korea South
- Modeling of high energy batteries. - Cha-Lin Liu, National Taiwan University of Arts, Taiwan
- Integration of Pseudocapacitive Materials with Partially Exfoliated Graphite for Supercapacitors - Xiaoxia Liu, Northeastern University, China
- 3-Dimensional-Graphene for High Performance Flexible Supercapacitors - Ji-Hyun Jang, UNIST, Korea South
- ReaxFF Molecular Dynamics Investigation on the Magnesium Hydride Fracture - Hasan Almatrouk, Kuwait Institute for Scientific Research, Kuwait

Arlington Session: Techniques beneficial to the energy sector
- Electromechanical Adaptive Drive - Konstantin Ivanov, Almaty University of Power Engineering and Telecommunication, Kazakhstan

Beijing Session: China’s energy and environmental challenges
- Model-Based Analysis: Impact of China’s National ETS with CCER Trading on Optimal Planning of China’s Power Industry - Jun Fang, Tsinghua University, China

Cambridge Session: Nano energy
- Controllable Fabrication of PANI/GO/TiO2 Multi-layered Hybrid Films with Enhanced Photoelectrocatalytic Activity - Xia Zhang, Northeastern University, China
- One-dimensional Carbon Nanomaterials Hybrids/ Dielectric Polymer Nanocomposites with High Permittivity for Power Energy Storage Applications - Minhao Yang, Université Paris-Saclay, France
- Sputter-deposited Nanostructured Metal-Oxide Films for Hydrogen Gas Sensing - Stanislav Haviar, Department of Physics and NTIS, Faculty of Applied Sciences, Czech Republic

Dallas Session: Energy catalyst
- Metal phosphides and their composites as efficient and robust electrocatalysts for hydrogen evolution reaction - Yuanyuan Ma, Xi’an Jiaotong University, China

Edinburgh Session: Energy and environment
- Bio-oil production and removal of organic load by microalga Scenedesmus sp. using culture medium contaminated with different sugars, cheese whey and whey permeate - Wesley da Silva Borges, Instituto Luterano de Ensino Superior de Itumbiara, Brazil
- Hydrogeochemistry and geothermometry of Tang-Bijar oilfield springs, Zagros region, Iran - Yasaman Rafighdoust, Ferdowsi University of Mashhad, Iran
- A residue-based biorefinery to meet energy and pollution challenges - Pilar Dorado, Universidad de Córdoba, Spain
- First-principles understanding of CO2 conversion into CH4 on copper-based catalysts - Dong-Hee Lim, Chungbuk National University, Korea South

Haifa Session: Energy security
- Cost analysis of enzymatic biodiesel production in small-scale packed-bed reactors - Smitha Sundaram, Eindhoven University of Technology, Netherlands

Houston Session: Oil and Gas
- Evaluation of Steam Flood Performance during Heavy Oil Recovery under Different Design Conditions - Abdullah Alajmi, Kuwait University, Kuwait
- Electrical resistivity and rheological properties of sensing bentonite drilling muds modified with lightweight polymer - Ahmed Mohammed, University of Sulaimani, Iraq

Liverpool Session: Energy harvesting
- Non-Fullerene Electron Acceptor and ZnO Nanoparticles Cathode Buffer Layer in Inverted Perovskite Solar Cells - Chin-Ti Chen, Academia Sinica, Taiwan
Poster Exhibition Cont.

- Sunlight – an Order Basis: by Results of Researches of Northern Labyrinths - Alina Paranina, Herzen State Pedagogical University of Russia, Russia
- The Development of Vertical Twin Rotors Full-Field Wind Power Generator - Chen-Ching Ting, National Taipei University of Technology, Taiwan

Oxford Session: Energy Efficiency

- Best Practices for Thermal Treatment of Buildings in Hot Climates - A Review for Designers from Cold Countries - Sahar Najeeb Kharrufa, Ajman University, United Arab Emirates

Paris Session: Renewable Integration and Power Distribution

- Robust nonlinear control design for tidal stream generator connected to a high power grid - Fabien Oculi, University Institute of Technology Villetaneuse, France
- Electrical Power System (EPS) Development for FORMOSAT-5 Satellite - Checheng HUANG, National Space Organization, Taiwan

Rutgers Session: Porous Materials and Structures for Energy Applications

- Pore Structure Determination from Neutron Scattering - J. Beau W. Webber, Lab-Tools Ltd. (nano-science), United Kingdom
- Physico-chemical characterization of Fischer-Tropsch catalysts. Effect of high pressure on the reducibility and dispersion of the active phase - Antonio Gil, Public University of Navarra, Spain
- Adsorption of CO2 on mixed oxides derived from hydrotalcites at high temperatures and pressures - Antonio Gil, Public University of Navarra, Spain

Seoul Session: Bioenergy

- The Opportunity of Bioethanol Production from Palm Oil Industry Waste in Indonesia - Yanni Sudiyani, Indonesian Institute of Sciences, Indonesia
- Process development and economic evaluation for catalytic production of furfural from hemicellulose fraction of lignocellulosic biomass - Juyeon Kim, Chonbuk National University, Korea South
## PARALLEL A  
**Day 1 | 10:50 - 12:30**

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## SCHEDULE FOR PARALLEL A

### Day 3 | 10:50 - 12:30

**Session: Argonne**

**Topic:** Energy storage  
**Room:** Portland  
**Moderator:** Prof. Guang Feng, Huazhong University of Science and Technology (HUST), China

- MnO2-Based Nanocomposites for High-Performance Supercapacitors (25 minutes) - Prof. Bingqing Wei, University of Delaware, United States
- Flexible supercapacitor of polypyrrole/carbon nanotubes on macroporous eggshell membranes (20 minutes) - Prof. Helinando de Oliveira, Federal University of Sao Francisco Valley, Brazil
- Heteroatoms-doped Carbon Microspheres with Superior Electrochemical Performance for Supercapacitors (20 minutes) - Prof. Faming Gao, Yanshan University, China

**Session: Dublin**

**Topic:** Heating and cooling  
**Room:** Park Lane  
**Moderator:** Prof. Bourhan Tashtoush, Jordan University of Science and Technology, Jordan

- A new energy efficient cooling system for data centers by using CO2 as the refrigerant (20 minutes) - Prof. Weirong Zhang, Tokyo Polytechnic University, Japan
- Energy and exergy analyses of thermocline, sensible heat storage for large CHP plant in Poland (20 minutes) - Dr. Ryszard Zwierzchowski, Warsaw University of Technology, Poland
- Accelerating energy retrofitting of European residential buildings by prefabricated modular elements (20 minutes) - Dr. Anotnín Lupíšek, Czech Technical University in Prague, Czech Republic
- Estimation of the power absorbed by the surface of optical components processed by an inductively coupled plasma torch (20 minutes) - Dr. Renaud Jourdain, Cranfield University, United Kingdom

**Session: Edinburgh**

**Topic:** Energy and environment  
**Room:** International Suite  
**Moderator:** Dr. Shen Yu, Institute of Urban Environment, Chinese Academy of Sciences, China

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### PARALLEL G  
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### PARALLEL I  
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Presentation Schedule
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- The comparative application of LCA and the "ecoputational" sustainability assessment framework to a UK heating of buildings case study (20 minutes) - Dr. Philip Sinclair CSci FIES FRSA, Eco-Design and Policy, United Kingdom

- Comparative Analysis of the transmission factors of lead and concrete manufactured with electric arc furnace slag aggregates (15 minutes) - Miss Davatee MAHARAJ, University of the West Indies, Trinidad & Tobago

- Quantitative Urban Environment Simulation Tool for Sustainable City Planning and Design (20 minutes) - Mr. Tian Kuay Lim, Urban Redevelopment Authority, Singapore

- Design of Large CO2 Capture Plant from Coal-fired Flue Gases with Low Cost Technology (20 minutes) - Dr. Ahmed Aboudheir, AEET Purenergy, China

Session: Manchester

**Topic**: Nuclear energy

**Room**: Senate

**Moderator**: Dr. Mark Read FRSC, University of Birmingham, United Kingdom

- Susceptibility to Total Body Irradiation (20 minutes) - Dr. Huib Vriesendorp, Phase 2 Therapy, United States

- Experiments Design of Helium Circulator with Dry Gas Seal for HTR-PM (20 minutes) - Ms. Ping YE, Tsinghua University, China

- Radiological risk assessment for hot cells decontamination (15 minutes) - Mrs. Carmen Tuca, Horia Hulubei National Institute for Physics and Nuclear Engineering, IFIN-HH, Romania

- The features of power regulation methods for gas-cooled reactor closed Brayton cycle (20 minutes) - Dr. Xiaoyong YANG, Tsinghua University, China

Session: Windsor

**Topic**: Renewable integration and power distribution

**Room**: Hyde Park

**Moderator**: Dr. Tugce DEMIRDELEN, Adana Science and Technology University, Turkey

- Integration of volatile solar and wind power using gas transport and seawater pump storage (25 minutes) - Prof. Michael Düren, Univ. Giessen, Germany

- New Methods to Reduce the Bus Switching Activities to Minimize Power Consumption (20 minutes) - Dr. Iftekhar Basith, Sam Houston State University, United States

Session: Paris

**Topic**: Sustainable energy, transportation and urban systems

**Room**: Victoria Park

**Moderator**: Mr. Matthias Garbs, Georg-August University Göttingen, Germany

- Sustainability Assessment of Energy Storage for Stationary Grid Application (20 minutes) - Dr. Marcel Weil, Karlsruhe University of Technology, Germany

- An Electric Energy Management with decentralized Energy Assistance Functions for Battery Electric Vehicles (20 minutes) - Mr. Sören Scherler, Ostfalia University of Applied Sciences, Germany

- Development of a two-stage stochastic programming model for utility supply and carbon dioxide mitigation strategies in an industrial complex under uncertainty in carbon tax (20 minutes) - Dr. Yuchan Ahn, Chonbuk National University, Korea South

- Exergy and Exergoeconomic Analysis for a Triple-Shaft Aeroderivative Gas Turbine Engine (20 minutes) - Dr. Abdulrahman Almutairi, College of Technological Studies, Kuwait
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13-17 August 2017 | page 8

Schedule for Parallel B

14/08/2017, 13:50 - 15:30

Session: Aachen
Topic: Energy policy
Room: International Suite
Moderator: Mr. Moty Kuperberg, The International Energy Security Agency | Dynamic Shipping Services, Haifa, Israel

- Scottish 'energy policy': a particularly tartan cocktail of devolved and reserved powers, climate, energy and economic ambitions, with a slice of Brexit (30 minutes) - Prof. Karen Turner, University of Strathclyde, United Kingdom
- Influence of European Union directives on the Use of Liquid Biofuel in the Transport Sector (20 minutes) - Mr. Keio Küüt, Estonian University of Life Sciences, Estonia
- The political risk mitigation potential of solar PV in an African-wide electricity network (10 minutes) - Mr. Philipp Trotter, University of Bath, United Kingdom

Session: Arlington
Topic: Techniques beneficial to the energy sector
Room: Hyde Park
Moderator: Dr Henry Tan, University of Aberdeen, United Kingdom

- Thermal Explosion in Homogeneous Systems. A Novel Approach to Analysis of Critical Conditions (20 minutes) - Prof. Valeriy Filimonov, Altai State Technical University, Russia
- Insight into the feature of reaction process in energy field by ECSA for TG-MS (15 minutes) - Dr. Hongde Xia, Institute of Engineering Thermophysics, Chinese Academy of Sciences, China
- Insight into the feature of reaction process in energy field by ECSA for TG-MS (15 minutes) - Dr. Rongbin Li, Tsinghua University, China

Session: Cambridge
Topic: Nano energy
Room: Portland
Moderator: Prof. Jerry Darsey, University of Arkansas at Little Rock, United States

- Deuteration Effects on the Intramolecular Energy Transfer and Luminescence of Lanthanides Coordinating 1,10-Phenanthroline with Polymorphism (25 minutes) - Prof. Miki Hasegawa, Aoyama Gakuin University, Japan
- Investigation of a nanoscale anatase TiO2 powder after high energy ball milling at ambient temperature (20 minutes) - Dr. Abdulsalam Alhazza, Kuwait Institute for Scientific Research, Kuwait
- Design of betavoltaic battery and synthesis of its beta source (20 minutes) - Dr. Young Rang Uhm, Korea Atomic Energy Research Institute, Korea South

Session: Houston
Topic: Oil and Gas
Room: Park Lane
Moderator: Ibrahim Fahmy, ZADCO, UAE

- Field-based environmental monitoring of unconventional oil and gas wells (20 minutes) - Mr. Daniel Soeder, South Dakota School of Mines and Technology, United States
- New development of World oil shale activities (20 minutes) - Dr. Yue Ma, China University of Petroleum-Beijing, China
- Significant Influence of pH During Molecular Characterization of Oil Sands Process Water (10 minutes) - Miss Mary Thomas, University of Warwick, United Kingdom
- Electrical resistivity and rheological properties of sensing bentonite drilling muds modified with lightweight polymer (20 minutes) - Dr. Ahmed Mohammed, University of Sulaimani, Iraq

Session: Manchester
Topic: Nuclear energy
Room: Senate
Moderator: Dr. Huib Vriesendorp, Phase 2 Therapy, United States

- Computer Modelling of U1-xPuxO2 MOX Nuclear Fuels. (20 minutes) - Dr. Mark Read FRSC, University of Birmingham, United Kingdom
- Comparison of three different thermodynamic cycles coupled with Very High Temperature Gas-cooled Reactor (20 minutes) - Prof. Jie Wang, Tsinghua University, China
- Modeling of Transient Behavior of a Spent Nuclear Fuel Assembly during Calorimetric Testing (10 minutes) - Miss Valerie Lawdensky, University of Nevada, Las Vegas, United States
Session: Oxford
Topic: Energy efficiency
Room: Park Avenue
Moderator: Prof. Endre Nagy, University of Pannonia, Hungary

- Forming mechanism and radius prediction of hydraulic generated slots based on a two-walled jet (15 minutes) - Dr. Wenchuan Liu, Wuhan University, China
- Application of Sensor Network to Achieve High Energy Efficiency: A Case Study of Reverse Osmosis Desalination (25 minutes) - Prof. Dongsoo Har, KAIST, Korea South
- Best Practices for Thermal Treatment of Buildings in Hot Climates - A Review for Designers from Cold Countries (20 minutes) - Prof. Sahar Najeeb Kharrufa, Ajman University, United Arab Emirates
- Analytical modelling and prediction formulas for domestic hot water consumption in residential Finnish apartments (20 minutes) - Dr. Andrea Ferrantelli, Tallinn University of Technology, Estonia
- An experimental investigation into the operation process of the free-piston linear generator (20 minutes) - Prof. Huihua Feng, Beijing Institute of Technology, China

Session: Cambridge
Topic: Nano energy
Room: Portland
Moderator: Prof. Miki Hasegawa, Aoyama Gakuin University, Japan

- Molecular Orbital Modeling of Energy Relevant Material’s Properties (20 minutes) - Prof. Jerry Darsey, University of Arkansas at Little Rock, United States
- Pd and Pd-based materials for energy related applications (20 minutes) - Prof. Hideaki Kasai, National Institute of Technology, Akashi College, Japan
- Fabrication of hydrogen sensors using PdO/WO3 nanorods (20 minutes) - Prof. Sukon Phanichphant, Chiang Mai University, Thailand

Session: Haifa
Topic: Energy security
Room: Central Park
Moderator: Dr Henry Tan, University of Aberdeen, United Kingdom

- Energy Future - Fossils and Beyond, The New Energy Era (25 minutes) - Mr. Moty Kuperberg, Dynamic Shipping Services Haifa, Israel
- LNG Contribution to Global Energy Security (10 minutes) - Mr. Moty Kuperberg, Dynamic Shipping Services Haifa, Israel | The Independent Energy Security Agency, Israel
- Techno-economic analysis of different plant capacities of a heat-integrated process to produce gasoline from biomass (10 minutes) - Miss Smitha Sundaram, Eindhoven University of Technology, Netherlands
- Biomass Supply Chain Optimization Sensitivity to Geographical Information Uncertainty (20 minutes) - Dr. Nathaniel Cooper, Imperial College London, United Kingdom
- Value of Electricity Supply Security: A Case Study for Germany (10 minutes) - Mr. Thomas Schröder, Research Centre Jülich, Germany

Session: Hamburg
Topic: Energy economy
Room: International Suite
Moderator: Prof. Rodrigo Verschae, Kyoto University, Japan

- How innovation and disruptions is reshaping the future of the power sector (25 minutes) - Dr. Fereidoon Sioshansi, Menlo Energy Economics, United States
- Unconventional Oil and Gas Development and Hotel Construction: Boom-Bust Victim or Economic Catalyst? (20 minutes) - Dr. Jonathan Williamson, Lycoming College, United States
- Investment Valuation in Liberalized Power Markets: Integrating Real Options with System Dynamics (15 minutes) - Mr. Daniel Rios Festner, Facultad Politécnica, Universidad Nacional de Asunción, Paraguay
**Session: Liverpool**  
**Topic:** Energy harvesting  
**Room:** Hyde Park  
**Moderator:** Mr. Ashok Chaudhari, Director, Solar-Tectic LLC, USA

- Development of Printed Organic Photovoltaic Cells for Indoor-Light Harvesting Applications (20 minutes) - Dr. Ye Tao, National Research Council of Canada, Canada
- Spectral absorption properties of an intrinsic silicon coating deposited by magnetron sputtering method (10 minutes) - Miss Beibei Lu, Nanjing Tech University, China
- Design of a Hybrid Solar Photovoltaic and Thermal Unit to Teach How Weather Affects to the Power Characteristics of Solar Modules (20 minutes) - Dr. Iftekhar Basith, Sam Houston State University, United States

**Session: Manchester**  
**Topic:** Nuclear energy  
**Room:** Senate  
**Moderator:** Dr. Andreas Adelmann, Paul Scherrer Institute, Switzerland

- Cold Nuclear Fusion Development (20 minutes) - Mr. Edward Tsyganov, Cold Fusion Power Company, United States
- Numerical Study of Heat Transfer of CO2 at Supercritical Pressure in a Helically Coiled Tube (20 minutes) - Dr. Zhen Zhang, Institute of Nuclear and New Energy Technology, Tsinghua University, China
- Benchmark Analyses of EBR-II ULOHS Test using MARS-LMR (20 minutes) - Dr. Chiwoong CHOI, Korea Atomic Energy Research Institute, Korea
- X-band Electron Linac-based Compact Neutron Source for Nuclear Material Detection (10 minutes) - Ms. Yudhitya Kusumawati, The University of Tokyo, Japan

**Session: Shanghai**  
**Topic:** Safety and integrity management for the energy industry  
**Room:** Victoria Park  
**Moderator:** Ibrahim Fahmy, ZADCO, UAE

- Safety and integrity management for the energy industry (20 minutes) - Mr. Mark Eggleston, Phillip Townsend Associates Inc., United States
- Establishing a Dynamic Risk Register in the Energy sector: the challenge of operational risks and data aggregation (20 minutes) - Dr. Maria Chiara Leva, Dublin Institute of Technology, Ireland
- Severe Accident Management Issues after Total Loss of Electric Power in Nuclear Power Plants (20 minutes) - Prof. Jong Woon PARK, Dongguk University, Korea
- SAMG-D: The IAEA Training Toolkit on The Development of Severe Accident Management Guidelines (20 minutes) - Dr. Ibrahim Khamis, International Atomic Energy Agency, Austria
- Fragility Curve for a Power Plant Building through Mathematical Simulations (20 minutes) - Prof. Eric Yee, KEPCO International Nuclear Graduate School, Korea

**Session: Warsaw**  
**Topic:** Dealing with waste  
**Room:** Park Avenue  
**Moderator:** Prof. Percy van der Gryp, Stellenbosch University, South Africa

- Bioelectricity Cogeneration with Residual Sugarcane Biomass: a Management Model Based on Balanced Scorecard (20 minutes) - Dr. Paulo Sérgio Vasconcelos, Federal University of Grande Dourados - UFGD, Brazil
- Environmental Responsibility and Sustainability of Bio-energy Mills: a Legal Analysis. (20 minutes) - Dr. Paulo Sergio Vasconcelos, Federal University of Grande Dourados - UFGD, Brazil
- High Performance and Low Cost Reclaiming Technology for Solvent/Glycol Reclaiming, Recycling, and Reusing (20 minutes) - Dr. Ahmed Aboudheir, AEET Purenergy, China

**Session: Waterloo**  
**Topic:** Nexus of water systems, food and energy  
**Room:** Park Lane  
**Moderator:** Prof. Safwat H. Shakir Hanna, Texas Gulf Coast Environmental Data (TEXGED) Center, United States

- Assessment of Sediment Load From Dokan Dam Watershed (20 minutes) - Prof. Nadhir Al_Ansari, Lulea University of Technology, Sweden
- A CFD approach for prediction of Sediment Erosion for Dulhasti Power Station (20 minutes) - Prof. G A Harmain, National Institute of Technology Srinagar, India
Session: Argonne
**Topic:** Energy storage  
**Room:** Portland  
**Moderator:** Prof. Bingqing Wei, University of Delaware, United States

- Improved Energy Efficiency of Solar Racing Cars by Aerodynamic Design and by Cooling Li-Ion Battery with PCMs (20 minutes) - Prof. Nelson Moraga, University of La Serena, Chile
- Enhancing the hydration reactivity of MgO – about particle morphology and chemical dopants (20 minutes) - Dr. Danny Müller, TU Wien, Austria
- Electroactive Composite Materials for Supercapacitors (10 minutes) - Ms. Milla Suominen, Laboratory of Materials Chemistry and Chemical Analysis, University of Turku, Finland
- Modelling of Distributions of Time Constants of Ion Carbon Based Supercapacitors (10 minutes) - Mr. Simon Howroyd, Loughborough University, United Kingdom

Session: Beijing
**Topic:** China’s energy and environmental challenges  
**Room:** International Suite  
**Moderator:** Ms. Jingchao Zhang, Kochi University of Technology, Japan

- China and green energy (20 minutes) - Dr. David Toke, University of Aberdeen, United Kingdom
- Ecological Courtyard with Circulated Energy Utilization Systems in Rural Areas of Northern China (20 minutes) - Dr. Xueyan Zhang, Dalian University of Technology, China
- International trade and carbon emissions: the role of Chinese institutional and policy reforms (20 minutes) - Dr. Fredrik NG Andersson, Lund University, Sweden
- The governance of solar power industry in Eastern China (20 minutes) - Dr. Geoffrey Chun-fung Chen, Xi’an Jiaotong-Liverpool University, China

Session: Dublin
**Topic:** Heating and cooling  
**Room:** Victoria Park  
**Moderator:** Prof. Salman Ajib, Hochschule Ostwestfalen-Lippe / Standort Höxter, Germany

- Effective temperature and efficiency of heat engines (20 minutes) - Dr. Mahmoud Huleihil, The Arab Academic Institute of Education, the Academic Institute Beit-Berl, Israel
- Study of Predicting Aerodynamic Heating for Hypersonic Boundary Layer Flow Over A Flat Plate (20 minutes) - Prof. Cao Wei, Tianjin University, China, China
- Thermal comfort indoors: A study in the cold period of Ensenada city, Baja California (20 minutes) - Dr. Julio Rincón, Universida Autónoma de Baja California, Mexico
- The Effect of Cross-cut Passive Flow Control in a Wavy Fin Heat Exchanger (10 minutes) - Mr. Gun Woo Kim, University of Seoul, Korea South

Session: Manchester
**Topic:** Nuclear energy  
**Room:** Senate  
**Moderator:** Mr. Edward Tsyganov, Cold Fusion Power Company, International, United States

- HPR1000: Advanced Pressurized Water Reactor with Active and Passive Safety (20 minutes) - Dr. Yuxiang Wu, China Nuclear Power Engineering Co. Ltd., China
- Cyclotrons as Reliable and Cost Effective Drivers for Accelerator Driven Systems (ADS) (20 minutes) - Dr. Andreas Adelmann, Paul Scherrer Institute, Switzerland
- Development and verification of wall-flap-gate as an inundation defence for nuclear plants (20 minutes) - Mr. Daisuke Matsubara, Hitachizosen Co.Inc., Japan
- Air oxidation of zirconium alloy cladding – the role of nitrogen (15 minutes) - Mr. Sanggil Park, Handong Global University/ACT, Korea South

Session: Paris
**Topic:** Renewable integration and power distribution  
**Room:** Park Avenue  
**Moderator:** Prof. Michael Düren, Univ. Giessen, Germany

- Virtual Reality platform for supporting integrated design of energy and spatial concepts in
brownfield industrial parks (20 minutes) - Mr. Andreas Hoepfner, Fraunhofer Institute for Factory Operation and Automation IFF, Germany

- Smart Transformers for Integration of Renewable Energy Sources (20 minutes) - Dr. Tugce DEMIRDELEN, Adana Science and Technology University, Turkey

- Performance Evaluation and Prediction of 100 kWp roof top grid interactive plant in India (20 minutes) - Dr. Sivasankari Sundaram, SRM University Kattankulathur Tamil Nadu, India

- Autonomous, Decentralized Battery Storage Systems for Load Balancing in Low Voltage Distribution Grids (10 minutes) - Mr. Bernhard Fäßler, Vorarlberg University of Applied Sciences, Austria

**Session: Washington**

- **Topic**: Biomass conversion technologies
- **Room**: Park Lane
- **Moderator**: Prof. Laszlo T. Mika, Budapest University of Technology and Economics, Hungary

- Hydrolytic degradation of lignocellulosic polysaccharides by dicarboxylic acids (20 minutes) - Prof. Gunnar Johansson, Uppsala university, Sweden

- Synthesis and characterization of N-rich micro-, mesoporous carbon materials obtained from natural sources: chitin, chitosan, Chlorella vulgaris and selected amino acids (20 minutes) - Ms. Anna Ilnicka, Nicolaus Copernicus University, Poland

- Mild hydrotreatment of a pyrolyzed straw fraction over nickel catalysts (20 minutes) - Dr. Klaus Raffelt, Karlsruhe Institute of Technology, Germany

**Session: Yale**

- **Topic**: Sustainable energy, transportation and urban systems
- **Room**: Hyde Park
- **Moderator**: Dr. Marcel Weil, Karlsruhe University of Technology, Germany

- Improved environmental footprint and road durability using hydrated lime in hot mix asphalt (20 minutes) - Dr. Aurela SHTIZA, EuLA, Belgium

- Gasoline like fuel to power compression ignition (GCI) approach to efficient, clean, affordable future engines (20 minutes) - Dr. Hyun Woo Won, AFRC, France

- Analysis of Economic and Ecological Impacts of Long Distance Manure Transports (20 minutes) - Mr. Matthias Garbs, Georg-August University Göttingen, Germany

- Mobility, Vehicle fleet, Energy use and Emissions forecast Tool (MOVEET) (20 minutes) - Mr. Kris Vanherle, Transport & Mobility Leuven, Belgium

**SCHEDULE FOR PARALLEL E**

**15/08/2017, 11:30 - 13:10**

**Session: Argonne**

- **Topic**: Energy storage
- **Room**: Portland
- **Moderator**: Prof. Helinando de Oliveira, Federal University of Sao Francisco Valley, Brazil

- Microstructure of Interfaces between Ionic Liquids and Charged Surfaces (20 minutes) - Prof. Guang Feng, Huazhong University of Science and Technology (HUST), China

- Combining of Both Liquid and Solid Electrolytes with Magneto-rheology (20 minutes) - Dr. Jie Ding, Defence Science and Technology Group, Australia

- Enhanced electrochemical performance of mesoporous NiCo2O4 as an excellent supercapacitive alternative energy storage material (20 minutes) - Mr. Prateek Bhojane, Indian Institute of Technology Indore, India

**Session: Dublin**

- **Topic**: Heating and cooling
- **Room**: Victoria Park
- **Moderator**: Dr. Mahmoud Huleihil, The Arab Academic Institute of Education, the Academic Institute Beit-Berl, Israel

- Experimental study and statistical-based optimization of solar ejector cooling system performance with R141b as a refrigerant (20 minutes) - Prof. Bourhan Tashtoush, Jordan University of Science and Technology, Jordan

- Acetone/zinc bromide (C3H6O/ZnBr2) as an alternative working solution in low temperature driven absorption refrigeration machines; some investigation results and perspectives (20 minutes) - Prof. Salman Ajib, Hochschule Ostwestfalen-Lippe / Standort Höxter, Germany

- System Performance Investigation and Optimization Retrofit of an Existing GSHP System
Session: Edinburgh
Topic: Energy and environment
Room: International Suite
Moderator: Dr. Philip Sinclair CSci FIES FRSA, Eco-Design and Policy, United Kingdom

- Energy structure and pollutant emissions in China within 50-year rapid development (20 minutes) - Dr. Shen Yu, Institute of Urban Environment, Chinese Academy of Sciences, China
- Energy and pollutant emissions in China within 50-year rapid development (20 minutes) - Dr. Shen Yu, Institute of Urban Environment, Chinese Academy of Sciences, China
- The households’ energy awareness and attitude towards RES in Poland - consumer segmentation (20 minutes) - Dr. Edyta Ropuszynska-Surma, Wroclaw University of Science and Technology, Poland
- Hydrogeochemistry and geothermometry of Tang-Bijar oilfield springs, Zagros region, Iran (15 minutes) - Dr. Yasaman Rafighdoust, Ferdowsi University of Mashhad, Iran
- Time-varying grid carbon intensity in the UK for the years 2009-2016 (10 minutes) - Miss Vasiliki (Vicky) Papaioannou, University of Reading, Great Britain

Session: Hiroshima
Topic: Energy and superconductivity
Room: Hyde Park
Moderator: Dr Henry Tan, University of Aberdeen, United Kingdom

- STM/STS study of the multi-layered fluorine-substituted high-Tc superconductor (20 minutes) - Prof. Toshikazu Ekino, Hiroshima University, Japan
- Thermomagnetic Stability in Isotropic Type-II Superconductors under Multicomponent Magnetic Fields (20 minutes) - Dr. Carolina Romero-Salazar, University Autonomous “Benito Juárez” of Oaxaca
- Critical Current Density and Intergranular Coupling Study of the Europium Nano-Oxide Added Bi. 6Pb0.4Sr2Ca2Cu3Oy Superconductor (20 minutes) - Dr. Amir Zelati, University of Birjand, Iran

Session: Manchester
Topic: Nuclear energy
Room: Senate
Moderator: Dr. Mark Read FRSC, University of Birmingham, United Kingdom

- Novel biogenic nanomaterials for application to nuclear decontamination and mitigation of legacy, contemporary and future challenges (20 minutes) - Prof. Lynne Macaskie, University of Birmingham, United Kingdom
- Double diffusive convection in a couple stress fluid saturated porous layer with internal heat source (20 minutes) - Prof. Sravan Gaikwad, Gulbarga University, India
- Parameters Study of Supercritical Carbon Dioxide Brayton Cycle for High Temperature Gas-cooled Reactor (HTGR) (20 minutes) - Mr. Gang Zhao, Tsinghua University, China

Session: Oxford
Topic: Energy efficiency
Room: Park Avenue
Moderator: Prof. Dongsoo Har, KAIST, Korea South

- The influence of ground heat exchanger zoning operation modes on ground thermal accumulation (20 minutes) - Prof. Mingzhi Yu, Shandong Jianzhu University, China
- Heat pipe screw dryer: a novel, continuous and highly energy-efficient drying technology (20 minutes) - Dr. Ahmad Mustaffar, Newcastle University, United Kingdom
- Thermal and mechanical evaluation of spark plasma sintered Cu-xNi composite for electrical applications (10 minutes) - Mr. Kabelo Emanuel Machethe, Tshwane University of Technology, South Africa
- Characteristics of spark plasma sintered copper reinforced with titanium for electrical applications (10 minutes) - Mr. Kabelo Emanuel Machethe, Tshwane University of Technology, South Africa
- Energy savings from installing VFDs in cooling towers’ fans in Kuwait (20 minutes) - Dr. Eitidal Al-Bassam, Kuwait Institute for Scientific Research, Kuwait
**Session: Spokane**  
**Topic:** Optimizing, greening to smarting  
**Room:** Central Park  
**Moderator:** Dr. Lucio Machetti, Terranova, Italy  
- Using Artificial Intelligence in Energy Optimisation for Industrial Use (20 minutes) - Dr. Gülgün Kayakutlu, Istanbul Technical University, Turkey  
- Adaptive model predictive control for energy-efficient smart homes (20 minutes) - Dr. Michaela Killian, Vienna University of Technology, Austria  
- Energy Efficiency and Performance of Cloud Data Centers in the Internet (20 minutes) - Prof. Paul J. Kuehn, University of Stuttgart, Germany  
- Modelling the Demand and Uncertainty of Low Voltage Networks (20 minutes) - Dr. Georgios Giasemidis, CountingLab LTD & University of Reading, United Kingdom

**Session: Washington**  
**Topic:** Biomass conversion technologies  
**Room:** Park Lane  
**Moderator:** Dr. Klaus Raffelt, Karlsruhe Institute of Technology, Germany  
- Production of solid biofuel from spent liquor of neutral sulfite semichemical (NSSC) pulping process (20 minutes) - Prof. Pedram Fatehi, Lakehead University, Canada  
- Study of low, mild and severe torrefaction and effects of extractives and chemical compositions on torrefaction process by thermogravimetry in of five fast-growth plantations in Costa Rica (15 minutes) - Miss Johanna Gaitan Alvarez, Technological Institute of Costa Rica, Costa Rica  
- Applying ratio control to achieve nitritation for low strength wastewater at different temperatures in a continuous biofilm reactor (10 minutes) - Mr. Wei Bian, Beijing University of Technology, China

**Presentation Schedule**  
13-17 August 2017 | page 14

**Session: Spokane**  
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**Schedule for Parallel F**  
15/08/2017, 15:30 - 17:10

**Session: Cambridge**  
**Topic:** Nano energy  
**Room:** Portland  
**Moderator:** Prof. Jerry Darsey, University of Arkansas at Little Rock, United States

- Investigation of the Li-ion Transport in Composite Electrolytes and at the Poly(ethylene oxide)/Garnet-type Li7La3Zr2O12 Interface (25 minutes) - Prof. Robert Kun, University of Bremen, Germany
- Nanoparticles supported on graphene for energy applications (20 minutes) - Prof. Jianping Gao, Tianjin University, China
- Performance-enhancing Nanowire-substrates Capable of Boosting Carrier Mobility through Stress-engineering (10 minutes) - Mrs. Sulagana Chatterjee, University of Calcutta, India

**Session: Edinburgh**  
**Topic:** Energy and environment  
**Room:** International Suite  
**Moderator:** Dr. Edit Csefalvay, Budapest University of Technology and Economics, Hungary

- Widespread Oil Spill during the Gulf War: Environmental Consequence and Remediation Strategies (30 minutes) - Prof. Chuxia Lin, University of Salford, United Kingdom
- Gas Separation with Ionic Liquids: Material Design and Industrial Applications (20 minutes) - Prof. Xiangping Zhang, Institute of Process Engineering, Chinese Academy of Sciences, China
- Improved CO2 sequestration in Geological Formations Using Foam Alternating Gas Injection- an Experimental Study (15 minutes) - Dr. Abdulrauf Adebayo, King Fahd University of Petroleum & Minerals, Saudi Arabia

**Session: Houston**  
**Topic:** Oil and Gas  
**Room:** Victoria Park  
**Moderator:** Mr. Mark Eggleston, Director, Phillip Townsend Associates, USA

- Characterization of molecular distillation fractions of petroleum Vacuum residues by conventional and non-conventional analytical techniques (20 minutes) - Mrs. Diana Catalina Palacio Lozano, University of Warwick, United Kingdom
- Bayesian estimation methods applied for estimating flow transients in natural gas pipelines (20 minutes) - Dr. Ferdinand Evert Uilhoorn, Warsaw University of Technology, Poland
- Foam oil interaction study for Enhanced oil Recovery applications (20 minutes) - Dr. Muhammad Sagir, University of Gujrat, Pakistan
- Integration of Data-Driven Models for Inference of Shale Barrier and Lean Zone Configurations in Thermal Recovery Processes (10 minutes) - Mr. Zhiwei Ma, University of Alberta, Canada
Session: Liverpool  
**Topic:** Energy harvesting  
**Room:** Hyde Park  
**Moderator:** Dr. Alhussein Albarbar, Manchester Metropolitan University, United Kingdom  
- Distributed energy via high-efficiency ceramic gas turbines fuelled by 25-MW wind turbines in the “Roaring Forties” (20 minutes) - Prof. Dave Wilson, MIT, United States  
- Rare Earth Free Permanent Magnet Generator Designs for Direct-Drive Wind Turbines (20 minutes) - Dr. Helena Khazdozian, Critical Materials Institute, United States  
- Simulation of Variable Speed Wind Power Generation System Using Switched Reluctance Generator and Capacitor-less AC-AC Converter (10 minutes) - Miss Guyuan Ji, Fukuoka Institute of Technology, Japan

Session: Manchester  
**Topic:** Nuclear energy  
**Room:** Senate  
**Moderator:** Dr. Andreas Adelmann, Paul Scherrer Institute, Switzerland  
- Multi-dimensional fluid structure by a cross two-phase flow (20 minutes) - Prof. Jaeyoung Lee, Handong Global University, Korea South  
- The Cross-Flow Mixing Analysis of Quasi-Static Pebble Flow Based on Pebble-Spindle Method (20 minutes) - Dr. Xiang Fang, Tsinghua University, China  
- Fast Nuclear Reactor with Liquid U-Pu Fuel (20 minutes) - Prof. Leonid Ponomarev, A.A. Bochvar High Technology Research Institute of Inorganic Materials, Russia  
- Effect of Hole Geometry on Film Cooling under Constant Flow Area (20 minutes) - Dr. Wei Peng, Tsinghua University, China

Session: Spokane  
**Topic:** Optimizing, greening to smarting  
**Room:** Central Park  
**Moderator:** Dr. Gülgün Kayakutlu, Istanbul Technical University, Turkey  
- Assessing and Managing ICT Risk for Smart Distribution Networks (20 minutes) - Dr. Lucio Machetti, Terranova, Italy  
- Time to act – Regulating cyber security the Norwegian Energy Sector (20 minutes) - Dr. Janne Hagen, Norwegian Water Resources and Energy Directorate, Norway  
- Time to act - Regulating cyber security the Norwegian Energy Sector-Part II (20 minutes) - Mr. Jon-Martin Pettersen, Norwegian Water Resources and Energy Directorate, Norway

Session: Warsaw  
**Topic:** Dealing with waste  
**Room:** Park Avenue  
**Moderator:** Dr. Ahmed Aboudheir, AEET Purenergy, China  
- Energy and cost evaluation of using Organic Solvent Nanofiltration (OSN) in waste tyre derived oil and solvent-oil systems (20 minutes) - Prof. Percy van der Gryp, Stellenbosch University, South Africa  
- An innovative perspective on the agricultural non-point pollution control - the eco-agricultural industrial chain (20 minutes) - Dr. Hongna Li, Chinese Academy of Agricultural Sciences, China  
- Production of biogasoline and biodiesel from waste cooking oil (20 minutes) - Prof. Jia-Ming Chern, Tatung University, Taiwan  
- Food Waste based Anaerobic Digestion with Centralized Monitoring System (20 minutes) - Dr. Pakkeer Thamby Abdul Salam, Asian Institute of Technology, Thailand

Session: Waterloo  
**Topic:** Nexus of water systems, food and energy  
**Room:** Park Lane  
**Moderator:** Prof. Nadhir Al_Ansari, Lulea University of Technology, Sweden  
- Agroecosystem engineering energy, ecological human imprint and economic sustainability: impact and assessment (20 minutes) - Prof. Safwat H. Shakir Hanna, Texas Gulf Coast Environmental Data (TEXCED) Center, United States  
- Grain Legume Crops are the Centre of Nexus between Human Nutrition, Soil Health and Systems’ Sustainability- A case study from Australia (20 minutes) - Dr. Rao (RCN) Rachaputi, The University of Queensland, Australia  
- Seawater greenhouse in Oman: The way forward (20 minutes) - Dr. Abdulrahim Al-Ismaili, Sultan Qaboos University, Oman
SCHEDULE FOR PARALLEL G

16/08/2017, 09:30 - 11:10

Session: Argonne

**Topic:** Energy storage  
**Room:** Portland  
**Moderator:** Dr. Jie Ding, Defence Science and Technology Group, Australia

- Molten Alkali Carbonates as Engineering Fluids (20 minutes) - Prof. Valentim Nunes, Instituto Politécnico de Tomar, Portugal
- Preparation method of supercapacitor based on PVC flexible substrate (20 minutes) - Dr. Ping Zhu, North University of China, China
- ReaxFF Molecular Dynamics Investigation on the Magnesium Hydride Fracture (20 minutes) - Dr. Hasan Almatrouk, Kuwait Institute for Scientific Research, Kuwait

Session: Berlin

**Topic:** Climate change and energy

**Room:** Central Park  
**Moderator:** Dr. David Chow, University of Liverpool, United Kingdom

- Preliminary analysis of the development of the Carbon Tracker system in Latin America and the Caribbean (20 minutes) - Dr. Park IL-SOO, Hankuk University of Foreign Studies, Korea South
- Gas separation using Silica Membrane incorporating a CO2 Quantum Cascade gas detector for CO2 emissions control (20 minutes) - Dr. Ngozi Nwogu, Robert Gordon University, United Kingdom
- Temperature and humidity management method of direct fresh-air cooling for energy-saving in modular data centers (20 minutes) - Mr. Hiroshi Endo, Fujitsu Laboratories Ltd., Japan
- Bottom-up Model for an Industrial Sector in South Korea (10 minutes) - Mr. Hwarang Lee, Seoul National University, Korea South

Session: Edinburgh

**Topic:** Energy and environment

**Room:** International Suite  
**Moderator:** Prof. Chuxia Lin, University of Salford, United Kingdom

- Effective Design for Environmental Application of TiO2 Photocatalysts (20 minutes) - Dr. Tsuyoshi Ochiai, Kanagawa Academy of Science and Technology, Japan
- Sustainability metrics for biomass-based basic chemicals (20 minutes) - Dr. Edit Csefalvay, Budapest University of Technology and Economics, Hungary
- Theoretical analysis of steam generation methods - the case of high temperature heat pump (20 minutes) - Dr. Frédéric Bless, NTB University of Applied Sciences of Technology Buchs, Switzerland

Session: Juelich

**Topic:** Transformation of energy systems

**Room:** Victoria Park  
**Moderator:** Prof. Wilhelm Kuckshinrichs, Deputy Head, Institute of Energy and Climate Research, Germany

- Mission Driven Energy Management to Create Sustainable Organizations: Integrating Behavior, Organization and Technology (20 minutes) - Dr. John Reed, Innovologie LLC, United States
- Advances on Coordinated Energy Management in Prosumer Communities (20 minutes) - Prof. Rodrigo Verschae, Kyoto University, Japan
- The British Power System and Interconnectors: Analysing the Implications of Brexit (20 minutes) - Dr. Christopher Ball, Forschungszentrum Jülich, Germany
- Consumers’ Evaluation of Public Charging Infrastructure for Electric Vehicles (10 minutes) - Mr. Joachim Globisch, Fraunhofer ISI, Germany

Session: Manchester

**Topic:** Nuclear energy

**Room:** Senate  
**Moderator:** Mrs. Carmen Tuca, Horia Hulubei National Institute for Physics and Nuclear Engineering, IFIN-HH, Romania

- Analyses of Bubble Passage Induced Reactivity Insertion using MARS-LMR (20 minutes) - Dr. Chiwonng Choi, Korea Atomic Energy Research Institute, Korea South
- Visualization Experiment on Zirconium Alloy-Steam Reaction (20 minutes) - Dr. Hidetoshi Okada, Institute of Applied Energy, Japan
- Measurement on Effective Thermal Conductivity of Pebble Bed in High Temperature Gas-cooled Reactor (20 minutes) - Dr. Cheng Ren, Tsinghua University, China
Session: Oxford

Topic: Energy efficiency
Room: Park Avenue
Moderator: Dr. Henry Tan, University of Aberdeen, United Kingdom

- The First-principles Calculations of M-doped VO$_2$ Nanoparticles for Thermochromic Energy-Saving Foils (20 minutes) - Prof. Qinghua Ren, Shanghai University, China

- Catalytic naphtha cracking over zeolite-based composites for on-purpose propylene production at low energy consumption (20 minutes) - Dr. Shinya Hodoshima, Chiyoda Corporation, Japan

- Energy Conversion Measures in the Industries of Saudi Arabia and Development of Methodology for Certification of Energy Personnel in the Kingdom (20 minutes) - Dr. Abdullah Alshehri, King Abdulaziz University, Saudi Arabia

- Loss Analysis of Dielectric Elastomer Generator by Using One Axial Loading (10 minutes) - Mr. Sathin Sriyuttakrai, Fukuoka Institute of Technology, Japan

Session: Rutgers

Topic: Porous materials and structures for energy applications
Room: Hyde Park
Moderator: Prof. Keqong Fang, Institute of Coal Chemistry, Chinese Academy of Sciences, China

- In Silico Design of Metal-Organic Frameworks for Post-combustion Carbon Capture: Effects of Pore Size, Topology and Functionality (20 minutes) - Prof. Song Li, Huazhong University of Science and Technology, China

- Rational Design and Synthesis of Carbazole-based Porous Organic Polymers for Enhanced Carbon Capture (20 minutes) - Prof. Honglai Liu, East China University of Science and Technology, China

- 1D-2D-3D Transformation Synthesis of Hierarchical Metal-Organic Framework Adsorbent for Multicomponent Alkane Separation (20 minutes) - Dr. Lik Hong Wee, University of Leuven, Belgium

Session: Seoul

Topic: Bioenergy
Room: Park Lane
Moderator: Prof. Jia-Ming Chern, Tatung University, Taiwan

- Improvement of gaseous energy recovery from organic wastes by biohythane process (30 minutes) - Prof. Das Debabrata, Indian Institute of Technology Kharagpur, India

- The Opportunity of Bioethanol Production from Palm Oil Industry Waste in Indonesia (20 minutes) - Prof. Yanni Sudiyani, Indonesian Institute of Sciences, Indonesia

SCHEDULE FOR PARALLEL H
16/08/2017, 11:30 - 13:10

Session: Aachen

Topic: Energy policy
Room: Victoria Park
Moderator: Dr. Jonathan Williamson, Lycoming College, United States

- Present status of a revenue-neutral “four-E” policy on energy, employment, equality and the environment (20 minutes) - Prof. Dave Wilson, MIT, United States

- Public acceptance of environmentally friendly electric heating in rural Beijing (15 minutes) - Ms. Jingchao Zhang, Kochi University of Technology, Japan

- Green energy, fiscal incentive and conflicting signals: analysing the challenges faced in promoting on-farm waste-to-energy projects (20 minutes) - Dr. Hafez Abdo, Nottingham Trent University, United Kingdom

Session: Argonne

Topic: Energy storage
Room: Portland
Moderator: Dr. Danny Müller, TU Wien, Austria

- Identification of capacity-loss prediction models of lithium-ion batteries (20 minutes) - Dr. Christoph Hametner, Vienna University of Technology, Austria

- Metal foams as an effective means to improve the performance of PCM thermal storage systems (20 minutes) - Dr. Ahmed Alhusseny, The University of Manchester, United Kingdom
- **Na3Zr2(SiO4)2(PO4)** prepared by a solution-assisted solid state reaction (10 minutes) - Mr. Sahir Naqash, Forschungszentrum Jülich GmbH, Germany

- Oxalate-hydrates in thermochemical energy storage – a so far neglected class of salt hydrates (10 minutes) - Mr. Christian Knoll, TU Wien, Austria

**Session: Liverpool**

**Topic**: Energy harvesting  
**Room**: International Suite  
**Moderator**: Dr. Ye Tao, National Research Council of Canada, Canada

- The Large Consequences of Nano-Technology: Energy Harvesting with Wide Bandgap Semiconductor Materials and Devices (30 minutes) - Prof. Ian Ferguson, Missouri University of Science and Technology, United States

- Enhanced thermoelectric performance in partially substituted melt grown higher manganese silicides (20 minutes) - Prof. Yuzuru Miyazaki, Tohoku University, Japan

- Surface modification of photovoltaic conversion devices due to interfacial charge-transfer (ICT) transition based on Nb doped TiO2 electrode with TCNQ (10 minutes) - Mr. Reo Eguchi, Tokyo University of Science, Japan

- An Analytic Study on the Thermoelectric Figure of Merit (20 minutes) - Dr. Najeh Zarir, University of Sharjah, United Arab Emirates

**Session: Oxford**

**Topic**: Energy efficiency  
**Room**: Park Avenue  
**Moderator**: Prof. Sahar Najeeb Kharrufa, Ajman University, United Arab Emirates

- Optimal Energy-efficient Timber-glass Upgrade Module for Renovation of Old Existing Buildings (20 minutes) - Prof. Miroslav Premrov, University of Maribor, Slovenia

- Unit Energy Production Based on Energy not Supplied (20 minutes) - Prof. Abdullah M. Al-Shaalan Al-Shaalan, King Saud University, Saudi Arabia

- Energy Efficiency and Utility Pricing Constraints in Africa (20 minutes) - Prof. Godfred A. Bokpin, University of Ghana, Ghana

- Laser Based Surface Modification of Titanium Alloys for Energy Efficiency in Aero-engine Applications (10 minutes) - Mr. Gabriel Farotade, Tshwane University of Technology, Pretoria, South Africa, South Africa

**Session: Seoul**

**Topic**: Bioenergy  
**Room**: Park Lane  
**Moderator**: Prof. Das Debabrata, Indian Institute of Technology Kharagpur, India

- Development of an engine control system using city gas and biogas fuel mixture (20 minutes) - Prof. Shigehiko Kaneko, The University of Tokyo, Japan

- Microscale Analysis of Multiple Stress Effect on Lipid Production from Microalgae for Rapid Condition Optimization of Biodiesel Production (20 minutes) - Prof. Sang Jun Sim, Korea University, Korea South

- Long term and short term look to biomass potential from agriculture land and from forestry (20 minutes) - Prof. Jaroslav Knápek, Czech Technical University in Prague, Czech Republic

**Session: Uppsala**

**Topic**: Environmental impact of materials  
**Room**: Senate  
**Moderator**: Prof. Karl Ulrich Kainer, Helmholtz-Zentrum Geesthacht, Germany

- PIXE Analysis of Synthetic Turf (20 minutes) - Prof. Michael Vineyard, Union College, United States

- Recovery of trace uranium ions from simulated wastewater with FeCl3-palygorskite with Sodium alginate beads (15 minutes) - Miss Aixia ZHOU, Beijing Normal University, China

- Preparation and compressive behavior of lightweight cenosphere fly Ash/Al syntactic foams (15 minutes) - Dr. Qiang Zhang, Harbin Institute of Technology, China
SCHEDULE FOR PARALLEL I

16/08/2017, 15:30 - 17:10

**Session: Dallas**

**Topic:** Energy catalyst

**Room:** Victoria Park

**Moderator:** Dr. Henry Tan, University of Aberdeen, United Kingdom

- Novel biogenic catalysts with multiple applications in low-energy and energy generating processes (30 minutes) - Prof. Lynne Macaskie, University of Birmingham, United Kingdom

- Higher alcohol synthesis from syngas over Mn2O3-Al2O3 composites supported Cu-Co alloy (20 minutes) - Dr. Lu Zhao, Institute of Coal Chemistry, Chinese Academy of Sciences, China

- Solving the master equation without kinetic Monte Carlo: Tensor-train approximations for a CO oxidation model (10 minutes) - Mr. Patrick Gelfast, Freie Universität Berlin, Germany

**Session: Edinburgh**

**Topic:** Energy and environment

**Room:** International Suite

**Moderator:** Dr. Frédéric Bless, NTB University of Applied Sciences of Technology Buchs, Switzerland

- Theoretical prediction of sulfuric acid condensation rates in boiler flue gas (20 minutes) - Prof. Kwangkook Jeong, Arkansas State University, United States

- Combustion Characteristics of Hydrogen Arrayed Micro-Burner (20 minutes) - Prof. Noriyuki Kobayashi, Nagoya University, Japan

- Petroleomics: A More Detailed Understanding of Petroleum Using Fourier Transform Ion Cyclotron Resonance Mass Spectrometry (20 minutes) - Dr. Mark Barrow, University of Warwick, United Kingdom

- Toxicity of particulates produced from pyrolysis of sustainable fuels (10 minutes) - Mr. Hamisu Dandajeh, University College London, United Kingdom

**Session: Liverpool**

**Topic:** Energy harvesting

**Room:** Park Avenue

**Moderator:** Prof. Ian Ferguson, Missouri University of Science and Technology, United States

- Non-Fullerene Electron Acceptor and ZnO Nanoparticles Cathode Buffer Layer in Inverted Perovskite Solar Cells (20 minutes) - Prof. Chin-Ti Chen, Academia Sinica, Taiwan

- CIGS based-thin film solar cell technology at KIER (20 minutes) - Dr. Jihye Gwak, Korean Institute of Energy Research, Korea South

- Efficiency Enhancement of Organic Solar Cells with Antireflection Nanotexture (20 minutes) - Dr. Shigeru Kubota, Yamagata University, Japan

**Session: Rutgers**

**Topic:** Porous materials and structures for energy applications

**Room:** Hyde Park

**Moderator:** Prof. Song Li, Huazhong University of Science and Technology, China

- Pore Structure Determination from Neutron Scattering (20 minutes) - Dr. J. Beau W. Webber, Lab-Tools Ltd (nano-science), United Kingdom

- Maximizing the Density of Active Groups in Porous Poly(Ionic Liquid)s Through a Cyclotrimerization Homopolymerization for Efficient Adsorptive Desulfurization (20 minutes) - Prof. Jun Hu, East China University of Science and Technology, China

- Synthesis of three-dimensionally ordered macroporous NiCe catalysts for oxidative dehydrogenation of propane to propene (20 minutes) - Prof. Kegong Fang, Institute of Coal Chemistry, Chinese Academy of Sciences, China

**Session: Uppsala**

**Topic:** Environmental impact of materials

**Room:** Senate

**Moderator:** Prof. Michael Vineyard, Union College, United States

- Environmental Impact of Processing of Magnesium Melts (20 minutes) - Prof. Karl Ulrich Kainer, Helmholtz-Zentrum Geesthacht, Germany

- The fatigue crack propagation behavior of Z3CN20.09M duplex stainless steel in 290 °C water (20 minutes) - Prof. Bin Yang, University of Science and Technology Beijing, China

- Cadmium Induced Oxidative Stress and Response of Antioxidants in Sorghum vulgare L. Treated with Putrescine and Endomycorrhia Glomus (15 minutes) - Mr. PRASANN KUMAR, RESEARCH FELLOW, India
Session: Washington

Topic: Biomass conversion technologies  
Room: Park Lane  
Moderator: Prof. Pedram Fatehi, Lakehead University, Canada

- Selective chemocatalytic production of lactic acid from glucose at room temperature (20 minutes) - Prof. Xinhua Qi, Agro-Environmental Protection Institute, Chinese Academy of Agricultural Sciences, China
- Exploring Pyrolysis and Hydrothermal Carbonization to Produce Porous Carbons for Hydrogen Storage (10 minutes) - Ms. Catalina Rodriguez Correa, University of Hohenheim, Germany
- Durability improvement of commercial H-ZSM-5 zeolite during ethanol conversion after combined post-synthesis (10 minutes) - Mr. Markus Seifert, Technische Universität Dresden, Germany

Session: Waterloo

Topic: Nexus of water systems, food and energy  
Room: Portland  
Moderator: Prof. Safwat H. Shakir Hanna, Texas Gulf Coast Environmental Data (TEXGED) Center, United States

- Improvement of energy generation by pressure retarded osmosis process (20 minutes) - Prof. Endre Nagy, University of Pannonia, Hungary
- A 1-D modeling study of brine management and power generation using Pressure Retarded Osmosis in the State of Kuwait. (20 minutes) - Dr. Bader Al Anzi, Kuwait University, Kuwait
- The influence of the specific interfacial area on the oxygen transfer speed from air to water (20 minutes) - Dr. Ionela Mihaela Constantin, Politehnica University of Bucharest, Romania
- Holistic modeling and simulation of water and energy demand in beverage production processes using Java and reference nets (20 minutes) - Mr. Martin Schuetz, Friedrich-Alexander University Erlangen, Germany

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<td>Hametner, Christoph, TU Wien, Austria</td>
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<td>han, jeehoon, Chonbuk National University, South Korea</td>
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