New Energy Forum- 2013

Opening Ceremony and Keynote Forum

Opening Remarks
Time: 09:00-12:00, September 26, 2013 (Thursday); Place: Kempinski Hotel Xi'an, Chan Ba Ecological District

Plenary Talks
Time: 09:00-17:40, September 26, 2013 (Thursday); Place: Qujiang Auditorium, 3rd Floor, QICC

Moderator: Dr. Dalong Zhong, Senior Scientist, Manager, Optoelectronics Materials and Surface Engineering Lab, GE Global Research, General Electric Company, USA

15:00-15:25
Title: Focus and Balance - Energy Policies for a Sustainable World
Dr. Hans van Ginkel, Former Under-Secretary General of the United Nations, the Netherlands

15:25-15:50
Title: Sri Lanka’s Petroleum Industry: Issues and Prospects
Mr. Anura Priyadarshana Yapa, Minister, Ministry of Petroleum Industries, Sri Lanka

15:50-16:15
Title: Win-win Opportunities for Euro-Asia Cooperation in Energy Efficiency
Mr. Claudio Faccin, Senior Vice President ABB Group, Head of ABB North Asia Region, Chairman and President of ABB (China) Limited, Italy

16:15-16:40
Title: Powering China’s Future with Clean Coal Technology
Mr. John Derbyshire, President, KBR Technology, USA

16:40-17:15
Title: Renewable Energy for Achieving Euro-Asia Sustainable Development
Ms. Lily Young, China Vice President, Government Affairs and Sustainable Development Schneider Electric, China

17:15-17:40
Title: The Opportunities and Challenges Facing China, due to the Changes in the Structure of International Energy Sector
Mr. Shi Ze, Center for International Energy Strategic Studies, CIIS, China

Forum 1: Solar Energy

Time: 08:30-10:15, September 27, 2013 (Friday);

Chair: Mr. Peter Sage, Principal & Global Director for Marketing and Communications, Space Energy Middle East, UAE

08:30-08:35
Title: Chair’s Introduction

08:35-08:55
Title: The Challenge of Inertia in Moving the World's Largest Economies Toward the New Energy Future
Mr. John Patterson, President, Mr. Sun Solar, Inc., USA

08:55-09:15
Title: New Energy for a New Future
Mr. Peter Sage, Principal & Global Director for Marketing and Communications, Space Energy Middle East, UAE

09:15-09:35
Title: In-collaborative Strategies for Renewable Energy Acquisition and Development
Dr. Caroline Judy, Assistant Director, General Services Agency, USA

09:35-09:55
Title: The Role of International Cooperation Networks on Renewable Energies in the Regional Development Capacity in the GCC Region
Dr. Cristina Flesia, Professor, University of Ferrara, Italy

09:55-10:15
Title: Improving Solar Resources Assessment - A Key Factor in Investors’ Decision to Approve Project Financing
Mr. Claudio Facchin, President, Mr. Sun Solar, Inc., USA

Session 1-2: Thin-Film Photovoltaics
Time: 08:30-12:00, September 27, 2013 (Friday);

Chair: Mr. Shi Ze, Center for International Energy Strategic Studies, CIIS, China

08:30-08:55
Title: Focus and Balance - Energy Policies for a Sustainable World
Mr. Hans van Ginkel, Former Under-Secretary General of the United Nations, the Netherlands

08:55-09:15
Title: Sri Lanka’s Petroleum Industry: Issues and Prospects
Mr. Anura Priyadarshana Yapa, Minister, Ministry of Petroleum Industries, Sri Lanka

09:15-09:35
Title: Win-win Opportunities for Euro-Asia Cooperation in Energy Efficiency
Mr. Claudio Faccin, Senior Vice President ABB Group, Head of ABB North Asia Region, Chairman and President of ABB (China) Limited, Italy

09:35-10:15
Title: The Opportunities and Challenges Facing China, due to the Changes in the Structure of International Energy Sector
Mr. Shi Ze, Center for International Energy Strategic Studies, CIIS, China
### New Energy Forum 2013

#### Session 1-3: Advances in Other Solar Cells Technologies (Part I)

**Chair:** Mr. George Atanasoff, President, AccuStrata Inc., USA  
**Co-Chair:** Dr. Dalong Zhong, Senior Scientist, Manager, Optoelectronics Materials and Surface Engineering Lab, GE Global Research, General Electric Company, USA  

**08:30-08:35**  
Chair’s Introduction

**08:35-09:00**  
**Title:** Real-time Optical Monitoring and Dynamic Process Control for More Efficient Solar Technology  
**Dr. Junhao Chu,** Shanghai Institute of Technical Physics, East China Normal University, China  
**Co-Chair:** Dr. Ramana Reddy, President, Poly Plant Project Inc., USA  

**09:00-09:25**  
**Title:** Improving Photovoltaic Properties of Poly(3-hexylthiophene) by Incorporating Gold Nanoparticles  
**Dr. Dalong Zhong,** Senior Scientist, Manager, Optoelectronics Materials and Surface Engineering Lab, GE Global Research, General Electric Company, USA  

**09:25-09:50**  
**Title:** The Uses of Getter Materials in the Electronic and Energy Device  
**Dr. Esidor Ntsoenzok,** Senior Scientist; Director, EPIR Technologies Inc., USA  

**09:50-10:15**  
**Title:** Evaluation and Understanding of Dopants, Impurities and Structures in a-Si, CIGS and CdTe Solar Cells  
**Dr. Larry Wang,** Vice President, Evans Analytical Group, USA  

**10:15-10:30**  
Coffee Break

**10:30-10:55**  
**Title:** Advanced Thin Film CdTe PV Technologies  
**Dr. Dalong Zhong,** Senior Scientist, Manager, Optoelectronics Materials and Surface Engineering Lab, GE Global Research, General Electric Company, USA  

**10:55-11:20**  
**Title:** Recent Advances in Organic Photovoltaic Technology  
**Dr. Hin-Lap Yip,** Professor, South China University of Technology, China  

**11:20-11:45**  
**Title:** Production of Smart Ultra-thin Substrates for Photovoltaic by High Energy Hydrogen Implantation: Progress and Prospects  
**Mr. Ning Zhou,** President, Strategy613 Co. Ltd., China  

**11:45-12:00**  
Panel Discussion

### Session 1-3: Advances in Other Solar Cells Technologies (Part II)

**Chair:** Dr. Paul Boieriu, Senior Scientist; Director, EPIR Technologies Inc., USA  
**Co-Chair:** Dr. Ramana Reddy, President, Poly Plant Project Inc., USA  

**10:25-10:30**  
Chair’s Introduction

**10:30-10:55**  
**Keynote Presentation, Title:** Development of Photovoltaic Solar Cells Technology and Application  
**Dr. Junhao Chu,** Academician (member of Chinese Academy of Sciences), Professor, Shanghai Institute of Technical Physics, East China Normal University, China; Director, of East China Normal University, China  

**10:50-11:10**  
**Invited Talk, Title:** Poly-CdTe Thin Film Solar Cell: Present Status and Its Potential  
**Dr. Paul Boieriu,** Senior Scientist; Director, EPIR Technologies Inc., USA  

**11:10-11:30**  
**Invited Talk, Title:** Effect of Polycrystallinity on CdS/CdTe Devices  
**Dr. Ramesh G Dhote,** CTO, Episolar, Inc., USA  

**11:30-11:50**  
**Invited Talk, Title:** New Directions for CdTe Thin Film Solar Cells  
**Dr. Alessandro Romeo,** Assistant Professor, Laboratory for Applied Physics, University of Verona, Italy  

**11:50-12:10**  
**Invited Talk, Title:** What Can Financial Services Provide Surplus for Renewable Energy Sector  
**Mr. Ning Zhou,** Vice President, Strategy613 Co. Ltd., China

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**Chair:** Mr. Jan Maurits, President, Poly Plant Project Inc., USA  
**Co-Chair:** Dr. Ramana Reddy, Professor, The University of Alabama, USA  

**13:30-13:35**  
Chair’s Introduction

**13:35-13:55**  
**Title:** Innovations in Materials for Advanced c-Si Solar Cell Cost Reduction  
**Mr. Jan Maurits,** President, Poly Plant Project Inc., USA  

**13:55-14:15**  
**Title:** Photovoltaic Materials for Other Solar Cell Technologies  
**Dr. Richard Schaller,** Scientist, Argonne National Laboratory, USA  

**14:15-14:35**  
**Title:** Charge Carrier Dynamics of Vapor-Deposited Small-Molecule Fullerene Organic Solar Cells  
**Dr. Richard Schaller,** Scientist, Argonne National Laboratory, USA  

**14:35-14:55**  
**Title:** Evaluation of Polysilicon Fluidized Deposition Systems  
**Dr. Paul Ego,** President and CEO, Reactech Process Development Inc, Canada  

**14:55-15:15**  
**Title:** Novel and Affordable Solar Grade Silicon Process  
**Dr. Oystein Gyeenhaug,** President, Clean Silicon, Norway  

**15:15-15:30**  
Coffee Break

**15:30-15:55**  
**Title:** Conducting Silicides for Photovoltaic Cells  
**Dr. Junhua Hu,** International Joint Research Laboratory for Low-carbon & Environmental Materials, Zhengzhou University, China
Session 1-4: Solar Energy Products and Applications
Time: 08:30-12:10, September 28, 2013 (Saturday);
Chair Dr. Karsten Otte, CEO, Solarion AG, Germany
Co-Chair Dr. Tjerk Reijenga, Principal – Architect, BEAR-ID, The Netherlands
08:30-08:35 Chair's Introduction
08:35-08:55 Title: Experimental and Numerical Study on the Solar Photocatalytic Hydrogen Production Reactor
Dr. Dengwei Jing, Associate Professor, Xi'an Jiaotong University, China
08:55-09:15 Title: Flexible Thin Film Technology Allows Manufacturing of Real BIPV
Dr. Karsten Otte, CEO, Solarion AG, Germany
09:15-09:35 Title: Next Generation Concentrating Solar Collectors for Rooftops
Dr. Gary Rosengarten, Professor, RMIT University, Australia
09:35-09:55 Title: Some Solar Power Concentrated Devices with Special Reference to Solar Bowl
Dr. M. A. K. Lodhi, Professor, Department of Physics, Texas Tech University, USA
10:10-10:30 Coffee Break
10:30-10:55 Title: What Solar Design Can Do for You
Dr. Tjerk Reijenga, Principal – Architect, BEAR-ID, The Netherlands
10:55-11:10 Title: Solar Thermal Cooling, An Overview and Perspectives
Dr. Salman Ajb, Professor, University of Applied Sciences, Hochschule Ostwestfalen-Lippe, Germany
11:20-11:45 Title: Solar Buildings and the Urban Environment
Dr. Anne-Francoise Marique, Research Engineer, University of Liège, Belgium
11:45-12:10 Title: New Energy for the New World: Transforming Lives Drive Successful Business Model
Mr. Jason Yap, Financial Controller, D.light Design, USA

Session 1-5: Solar Energy Investment and Business Development
Time: 13:30-15:15, September 28, 2013 (Saturday);
Chair Mr. Rene Moerman, Chief Strategy Officer, Solariff Insurance Finance BV, The Netherlands
Co-Chair Ms. Dorte Fouquet, Partner and Head, Becker Butthir Held (BBH), Belgium
13:30-13:35 Chairs Introduction
13:35-13:55 Title: Risk Awareness and Risk Mitigation to Secure the Investment in PV Projects
Mr. Rene Moerman, Chief Strategy Officer, Solariff Insurance Finance BV, The Netherlands
13:55-14:15 Title: The Next Stages in the Transition to a Renewable Energy System: (The European Approach on) Market Integration or Market Transformation
Dr. Dorte Fouquet, Partner and Head, Becker Butthir Held (BBH), Germany
14:15-14:35 Title: Solar Potential and Developments in India
Mr. Satish Mandhana, Managing Partner & Chief Investment Officer, IDFC Alternatives Limited, India
14:35-14:55 Title: PV Power Plant Certification
Mr. Qiang Han, Technology GM, VDE Global Services Shanghai, Germany
14:55-15:15 Title: India’s Solar Energy Mission-Major Challenges
Dipankar Dey, Dean, IBS Business School, India

Forum 2: Wind Energy
Session 2-1: Wind Energy Policy, Market and Environmental Impact
Time: 08:30-11:45, September 27, 2013 (Friday);
Chair Dr. Mike Woebbeking, Head of Certification Body, GL Renewables Certification, Germany
Co-Chair Dr. Georgy Ermolatko, CEO, JSC “Wind Energy Systems”, Russia
08:30-08:35 Chairs Introduction
### Session 3: Energy Storage and Smart Grid Technologies

#### Session 3-1: Energy Storage Market and Technologies

**Time:** 08:30-11:40, September 27, 2013 (Friday)

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<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Chair's Introduction</td>
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<tr>
<td>08:30-08:35</td>
<td>Title: Nanomaterials: Towards Energy Storage Applications</td>
<td>Dr. Mingping Wei, Professor of Mechanical Engineering, University of Delaware, USA</td>
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<tr>
<td>09:00-09:25</td>
<td>Title: Thermal Energy Storage Implementation and Operation in Critical Applications</td>
<td>Mr. Stephane Bilodeau, President, Groupe Enerstat Inc., Canada</td>
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<tr>
<td>09:25-09:50</td>
<td>Title: Dense Energy Storage with Ultrafast Charge/Discharge from Dispersion Forces in Nanotubes</td>
<td>Dr. Fabrizio Pinto, Professor, Jazan University (KSA) and President &amp; CEO, InterStellar Technologies Corporation, USA</td>
</tr>
<tr>
<td>09:50-10:15</td>
<td>Title: Overview of Energy Storage Technologies and Their Applications for Smart Grid</td>
<td>Dr. Ting An, Chief Expert – System Design for Smart Equipment, Smart Grid Research Institute, the State Grid Cooperation of China, China</td>
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<tr>
<td>10:15-10:30</td>
<td>Coffee Break</td>
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<td>10:30-10:55</td>
<td>Title: Develop Your Smart Grid Vision, Execute a Successful Project and Communicate the Benefits: CenterPoint Energy’s Story</td>
<td>Mr. Robert Frazier, Director of Technology, CenterPoint Energy, Inc., USA</td>
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<tr>
<td>10:55-11:20</td>
<td>Title: Electrochemical Energy Storage Technologies and Applications</td>
<td>Dr. Raul Diaz, Senior Assistant Researcher, IMDEA Energy, Spain</td>
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<td>11:20-11:40</td>
<td>Panel Discussion</td>
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#### Session 3-2: Smart Grid Regulation, Policy and Investment

**Time:** 15:30-17:15, September 27, 2013 (Friday)

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<td>15:55-16:20</td>
<td>Title: Electrochemical Energy Storage Technologies and Applications</td>
<td>Dr. Raul Diaz, Senior Assistant Researcher, IMDEA Energy, Spain</td>
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<tr>
<td>Time</td>
<td>Session 3-3: Grid Integration &amp; Energy Storage for Renewable Energies</td>
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<td>08:30-08:35</td>
<td>Chair's Introduction</td>
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<td>08:35-09:00</td>
<td>Title: Active Power Grid Element; Energy Storage Solutions to Drive Power Quality &amp; Stabilization Distribution Networks Mr. Jan Teichmann, Director Sales &amp; Marketing Storage C, Siemens AG, Germany</td>
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<td>09:00-09:25</td>
<td>Title: Integration of Renewable Energy at the Global Level - a Vision Dr. Mohammed Safiuddin, President, STS International, USA</td>
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<td>09:25-09:50</td>
<td>Title: Power-to-Gas: a Renewable Energy Storage Applications for Hydrogen Mr. Filip Smeets, General Manager On-site Generation, Hydrogenics, Belgium</td>
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<td>09:50-10:15</td>
<td>Title: Activation of Thermal Storages as Part of the Energy Turnaround Dr. Christian Kunze, Director of Studies, Norwegian Centre of Expertise (NCE) Smart Energy Markets, Norway</td>
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<td>10:15-10:30</td>
<td>Coffee Break</td>
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<td>10:30-10:55</td>
<td>Title: Decentralised Management of Distributed Energy Resources in the Distribution Network Mr. Tim Lindquist, CEO, PORTUS, Australia</td>
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<td>10:55-11:20</td>
<td>Title: Trends in Development of Advanced Porous Materials for Thermal Adsorption Storage of Heat Dr. Jochen Janchen, Senior Researcher, Technical University of Applied Sciences Wildau, Germany</td>
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<td>11:20-11:45</td>
<td>Title: The Innovative Hybrid Power Plant in Ikaria Island Greece Promises a Wide Scale Energy Storage. A Techno Economic Analysis under the Construction Experience Dr. Constantinios G. Karagiannopoulos, Professor, National Technical University of Athens, Greece</td>
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<td>11:45-12:10</td>
<td>Title: Considerations on Voltage Stabilizing Control for a dc-bus Linked Autonomous Distributed Power Supply System Dr. Mikihiro Matsui, Professor, Tokyo Polytechnic University, Japan</td>
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Session 4-1: Offshore Wind Energy and Marine Renewable Energy
Session 4-2: Smart Grid Interconnections, Communications and Implementation
Session 4-3: Smart Grid Interconnections, Communications and Implementation
Session 4-4: Smart Grid Interconnections, Communications and Implementation

Forum 4: Offshore Wind Energy and Marine Renewable Energy
Session 4-1: Offshore Wind Energy and Marine Renewable Energy
Session 4-2: Smart Grid Interconnections, Communications and Implementation
Session 4-3: Smart Grid Interconnections, Communications and Implementation
Session 4-4: Smart Grid Interconnections, Communications and Implementation

http://www.bitcongress.com/nef2013/Program.asp
### Forum 5: Advances in Other New Energy Technology

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<tr>
<td>08:30-08:35</td>
<td>Chair's Introduction</td>
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<tr>
<td>08:35-09:00</td>
<td>Mr. Benjamin Foley, General Manager-Offshore Renewables, Keystone Engineering Inc., USA</td>
<td>The &quot;Twisted Jacket&quot;: An Innovative Foundation Solution for Offshore Wind Farms</td>
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<td>09:00-09:25</td>
<td>Mr. Mathias Stock, Senior Vice President &amp; Regional Manager Asia Pacific, GL Garrad Hassan, China</td>
<td>Offshore Wind Development in China and Recent Challenges</td>
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<td>09:25-09:50</td>
<td>Mr. Are Borgesen, Chairman and CEO, Tidal Sails AS, Norway</td>
<td>Inherent Advantages of Linear Energy Collection Based on Tidal Sails Technology</td>
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<td>09:50-10:15</td>
<td>Dr. Leonardo P Chamorro, Assistant Professor, University of Illinois, USA</td>
<td>Challenges in the Wind and Marine &amp; Hydrokinetic Energy Technologies</td>
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### Session 5-1: Hydropower/Hydroelectricity

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<td>Chair's Introduction</td>
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<tr>
<td>08:35-08:55</td>
<td>Dr. Jean Francois Donzier, General manager, International Office for Water, France</td>
<td>Developing Hydropower and Preserving Large River Ecosystem</td>
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<td>08:55-09:15</td>
<td>Dr. Gianluca Stanic, Technical Director, Marelli Motori, Italy</td>
<td>Innovative Solutions for Mini Hydroelectric Power Plants</td>
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<td>09:15-09:35</td>
<td>Mr. Steven Usher, Deputy Editor, The International Journal on Hydropower &amp; Dams (Aqua-Media International Ltd.), UK</td>
<td>Global Hydropower Growth and Opportunities</td>
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<td>09:35-09:55</td>
<td>Mr. Kerry J LaLiberte, Director, Navigant Consulting, USA</td>
<td>Remote Control Technologies Are Changing Hydro Operations</td>
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<td>09:55-10:15</td>
<td>Mr. Antonio Jorge Abreu, President, EISA, Brazil</td>
<td>New Ways of Societal Dialogue to Ensure Acceptance of Large Industrial Projects</td>
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### Session 5-2: LED Light

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<td>Chair's Introduction</td>
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<td>10:35-11:00</td>
<td>Dr. Holger Winkler, Head of RD Solid State Lighting, Merck KGaA, Germany</td>
<td>Phosphors Impact on LED Characteristics</td>
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<td>11:00-11:25</td>
<td>Dr. Peter Bodrogi, Senior Research Fellow, Laboratory of Lighting Technology, Technische Universität Darmstadt, Germany</td>
<td>Color Quality and Brightness of White LEDs-the Needs of the High-performance Phosphor Mixtures for Indoor Lighting</td>
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<td>11:25-11:50</td>
<td>Dr. Hanmin Zhao, CTO, Lattice Power Corp., China</td>
<td>High Efficiency LEDs Based on New GaN-on-Silicon Technology</td>
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<td>11:50-12:10</td>
<td>Dr. Shane Callanan, Director of Applications Engineering, EXCELSYS Technologies, Ireland</td>
<td>Meeting the Needs of Longevity, How Power Supply Vendors are Achieving Long Lifetimes</td>
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### Session 5-3: Lithium Batteries

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<td>Chair's Introduction</td>
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<tr>
<td>08:35-09:00</td>
<td>Dr. Shi Xue Dou, Professor, Director, Institute for Superconducting &amp; Electronic Materials, University of Wollongong, Australia</td>
<td>Electronic Strain and Chemical Doping for Improvement of Materials Performance Properties</td>
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<tr>
<td>09:00-09:25</td>
<td>Mr. James E. Powell, President, Transportation Development Group LLC, USA</td>
<td>New Energy Technology: Shipping and Transport Issues for Lithium Batteries, Ultra-capacitors, Fuel Cell Technology and other Dangerous Goods</td>
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<td>09:25-09:50</td>
<td>Ms. Janet McLaughlin, Deputy Director, Hazardous Materials Safety, Federal Aviation Administration, USA</td>
<td>The Safe Transport of Lithium Batteries by Air</td>
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<td>09:50-10:15</td>
<td>Dr. MuMu Moorthi, President, Battery Consulting, USA</td>
<td>Development of Efficient Carbon Anode Material for a High-Power and Long-Life Lithium-Ion Battery</td>
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### Forum 6: Hydrogen Energy

**Session 6-1: Fuel Cell Technologies-Application and Outlook**  
**Time:** 13:30-17:30, September 27, 2013 (Friday);  
**Chair:** Dr. Yogeshwar Sahai, Professor & Chairman, MSE Department, The Ohio State University, USA  
**Co-Chair:** Dr. Chang-Soo Kim, Principal Research, Fuel Cell Research Center, Korea Institute of Energy Research, Korea

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<tr>
<td>13:30-13:35</td>
<td>Chair's Introduction</td>
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| 13:35-13:55  | **Title:** High Temperature Fuel Cells for Clean and Efficient Power Generation  
Dr. Sushash Singhal, Battelle Fellow, Pacific Northwest National Laboratory, USA |
| 13:55-14:15  | **Title:** Development of Membrane and Electrode Materials for Low Temperature Fuel Cell  
Dr. Yogeshwar Sahai, Professor & Chairman, MSE Department, The Ohio State University, USA |
| 14:15-14:35  | **Title:** Hydrogen Energy and Fuel Cells in France: Current Situation & Perspective  
Mr. Claude Derive, Vice-Chairman, AFHYPAC, France |
| 14:35-14:55  | **Title:** Hydrogen Delivery to Fuel Cell Vehicles in the U.S.  
Mr. Daryl R. Brown, Senior Staff Engineer, Pacific Northwest National Laboratory, USA |
| 14:55-15:15  | **Title:** Economics of Fuel Cell Systems for Telecommunication Base Stations  
Mr. David DeVries, President, Genesis Fueltech, Inc., USA |
| 15:15-15:30  | Coffee Break                                 |
| 15:30-15:50  | **Title:** Development of the Core Technologies for a 500W-Class Alkaline Membrane Fuel Cell  
Dr. Chang-Soo Kim, Engineer, Korea Institute of Energy Research, Korea |
| 15:50-16:10  | **Title:** Next Generation PEM Fuel Cell Stack Components  
Dr. Srinivas Balalapalli, President & CEO, Sainergy Tech, Inc., USA |
| 16:10-16:30  | **Title:** Assembly and Operational Principles of Future DMFC Systems  
Dr. Mikael Paronen, Head of Department of Energy and Materials Technology, Arcada, Finland |
| 16:30-16:50  | **Title:** Recycling of NiMH Batteries  
Dr. Daniel Assumpcao Baptista, Professor, Federal University of Santa Maria-UFSM, Brazil |
| 16:50-17:10  | **Title:** Possible Hydrogen Fuel Cell Vehicles Powertrain Future Role  
Mr. Mario Valentino Romeri, Independent Consultant, Italy |
| 17:10-17:30  | **Title:** Intermediate Temperature SOFC with Nanocomposite Cathodes: Design and Performance  
Mr. Nikita Eremin, Boreskov Institute of Catalysis, Russia |

**Session 6-2: Hydrogen Production and Hydrogen Storage Materials & Systems**  
**Time:** 08:30-10:15, September 28, 2013 (Friday);  
**Chair:** Dr. Dan Eliezer, Chief Scientist and VP, C.En Ltd., Switzerland

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<tr>
<td>08:30-08:35</td>
<td>Chair's Introduction</td>
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| 08:35-08:55  | **Title:** Hydrogen Storage in Glass Materials: A New Technology  
Dr. Dan Eliezer, Chief Scientist and VP, C.En Ltd., Switzerland |
| 08:55-09:15  | **Title:** Improved Dehydrogenation Performance of NaAsH4–Mg(AlH4)2 Complex Metal Hydrides  
Dr. Wen-Tai Tsai, Professor, National Cheng Kung University, Taiwan |
| 09:15-09:35  | **Title:** Electricity and Hydrogen Co-Production from a Bio-Electrochemical Cell  
Dr. Qing-Yun Chen, Professor, Xi'an Jiaotong University, China |
| 09:35-09:55  | **Title:** Hydrogen Production Challenges  
Dr. Amin A. El-Molali, Head of Research and Publication, AMA International University Bahrain, Kingdom of Bahrain |
| 09:55-10:15  | **Title:** In Situ Made Hydrogen for Use on Demand  
Dr. John Morris, CEO, African Hydrogen, South Africa |

### Forum 7: Renewable Bio-energy

**Session 7-1: Renewable Bio-energy**  
**Time:** 13:30-17:30, September 27, 2013 (Friday);  
**Chair:** Dr. Manfred Kieker, Chairman, CLIB2021 Cluster Industrielle Biotechnologie, Germany

http://www.bitcongress.com/nef2013/Program.asp
**Forum 8: Nuclear Energy**

**Session 8-1: Global Nuclear Energy Outlook, Policy and Financing**

*Time: 15:30-17:35, September 27, 2013 (Friday)*

**Chair**
Dr. Massimiliano Nobile, Director, Italian-Russian Cooperation Agreement, Moscow – Russian Federation, Italy

**Co-Chair**
Mr. Ruben Mazzi, CEO, INVAP Australia Pty Ltd, Australia

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<tr>
<th>Time</th>
<th>Title</th>
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<tr>
<td>15:30-15:35</td>
<td>Chair’s Introduction</td>
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<tr>
<td>15:35-15:55</td>
<td>The Italian-Russian Cooperation Agreement for Global Partnership –Main Results after 8 Years of Activities</td>
<td>Dr. Massimiliano Nobile, Director, Italian-Russian Cooperation Agreement, Moscow – Russian Federation, Italy</td>
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<td>15:55-16:15</td>
<td>Nuclear Energy Development Prospects in Argentina</td>
<td>Mr. Ruben Mazzi, CEO, INVAP Australia Pty Ltd, Australia</td>
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<tr>
<td>16:15-16:35</td>
<td>Challenges and Trends for Financing Nuclear Power Projects</td>
<td>Mr. Young Joon Kim, Partner, Milbank Tweed Hadley &amp; McCloy, USA</td>
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<td>16:35-16:55</td>
<td>Outlook for Nuclear Power in Slovakia in the Light of the Fukushima NPP Accident and Near Future</td>
<td>Dr. Eduard Metke, Director General, Nuclear Regulatory Authority, Slovakia Republic</td>
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<td>16:55-17:15</td>
<td>The Italian-Russian Cooperation Agreement for Global Partnership - Considerations of Juridical and Organizational Nature: How to Pave the Way to a Success</td>
<td>Dr. Pietro Maria Paolucci, Director, Ministry for Economic Development-Direction General for International Trade Policy, Italy</td>
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<td>17:15-17:35</td>
<td>World Nuclear Energy Strategies from the Viewpoint of Environment and Sustainability</td>
<td>Ms. Kyoko Mukaida, Staff, Japan Atomic Energy Agency (JAEA), Japan</td>
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**Session 8-2: Nuclear Construction and Supply Chain**

*Time: 13:30-15:15, September 27, 2013 (Friday)*

**Chair**
Dr. Tsuneo Futami, Professor, Business Breakthrough University, Japan

**Co-Chair**
Mr. Paul Adler, Chief Executive Officer, KorteQ Ltd, UK

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<td>13:30-13:35</td>
<td>Chair’s Introduction</td>
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<td>13:35-14:00</td>
<td>Three Losses and Three Diversities</td>
<td>Mr. Josef Modl, Executive Vice President, Vogelbusch GmbH, Austria</td>
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<td>10:30</td>
<td>Title: The Engineering Workforce: Modernising Learning, Development and Collaboration</td>
<td>Dr. Paul Adler, Chief Executive Officer, KoriQi Ltd., UK</td>
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<td>10:45</td>
<td>Title: Critical Nuclear Infrastructure Vulnerability</td>
<td>Dr. Ashraf Elsayed Mohamed Mohamed, Professor, Institute of Manufacturing, Egypt</td>
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<td>10:50</td>
<td>Title: Qualification and Re-qualification of In-Containment Components and Materials - Simulated Aging and Degradation</td>
<td>Mr. Milan Tesinsky, Nuclear Design Engineer, Westinghouse Electric, Sweden</td>
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**Session 8-3: Nuclear Power Reactors and Fuel Cycle/Uranium Supply**

**Time:** 13:30-17:10, September 28, 2013 (Saturday)

**Chair:** Dr. Igor Pioro, Professor, University of Ontario Institute of Technology, Canada

**Co-Chair:** Dr. Satoru Tanaka, Professor, University of Tokyo, Japan

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<tr>
<td>13:35</td>
<td>Title: Asian Multimaterial Nuclear Approach - Study on Sustainable Regional Nuclear Fuel Cycle</td>
<td>Dr. Satoru Tanaka, Professor, University of Tokyo, Japan</td>
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<td>13:50</td>
<td>Title: The Strategic Role of Accelerator Driven System in Nuclear Fuel Cycle</td>
<td>Dr. Hailong Xia, Vice President, State Nuclear Power Research Institute (SNPRI), China</td>
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<td>14:05</td>
<td>Title: Nuclear Power as a Basis for Future Electricity Production in the World: Generation III and IV Reactors</td>
<td>Dr. Igor Pioro, Professor, University of Ontario Institute of Technology, Canada</td>
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<td>14:20</td>
<td>Title: Nuclear Data Produced at the Radioactive Isotope Beam Factory</td>
<td>Dr. Hiroyoshi Sakurai, Chief Scientist, RIKEN, Nishina Center for Accelerator-Based Science, Japan</td>
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<td>14:35</td>
<td>Title: Materials Challenges and Opportunities in the Development of Superficial Water Cooled Reactors (SCWR)</td>
<td>Dr. Wenyue Zheng, Program Manager-Materials for Energy Production, NRCan, Canada</td>
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<td>14:50</td>
<td>Title: Uranium Mining - Weak Link in the Global Renaissance</td>
<td>Dr. Wallace M. Mays, President, WM Mining Company, USA</td>
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<td>14:55</td>
<td>Title: Development of a Small INPRO-Compatible Nuclear Reactor in Ecuador and Vietnam</td>
<td>Dr. Farhang Safi, Invited Professor, Escuela Politicnica Nacional – EPN, Ecuador</td>
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<td>15:10</td>
<td>Title: SVBR-100: New Generation Nuclear Power Plants for Small and Medium-sized Power Applications</td>
<td>Mr. Alexey Kondaurov, First Deputy Director General, AKME-engineering, Russia</td>
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<td>15:25</td>
<td>Title: Nuclear Power Plant from Beginning to Final Stage (Electricity)</td>
<td>Dr. Reza Amrollahi, Dean of Faculty of Energy and Physics, Amirkabir University of Technology, Iran</td>
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<td>15:40</td>
<td>Title: Advanced Designs of VVER Reactor Plant</td>
<td>Mr. Anton Kuzminchev, Design Engineer, OKB &quot;GIDROPRESS&quot;, Russia</td>
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**Session 8-4: Nuclear Regulation, Safety, Sustainability and Public Perception**

**Time:** 13:30-15:10, September 28, 2013 (Saturday)

**Chair:** Dr. Yutaka Sagayama, Director General, Japan Atomic Energy Agency, Japan

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<tr>
<td>13:35</td>
<td>Title: Regulatory Approach on “3S” Concept Implementation Strategy</td>
<td>Mr. Lucian Leonida Biro, Nuclear Safety &amp; Security Senior Adviser, National Commission for Nuclear Activities Control (CNCAN), Romania</td>
</tr>
<tr>
<td>14:00</td>
<td>Title: SFR R&amp;D Activities in Japan from the Aspect of the Safety Design Criteria of GIF</td>
<td>Dr. Yutaka Sagayama, Director General, Japan Atomic Energy Agency, Japan</td>
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<td>14:15</td>
<td>Title: Merts of Filtered Containment Venting Enhancing Defense in Depth in Plant Safety and Protecting Environment</td>
<td>Dr. Salih Guentay, Deputy Head, Laboratory for thermal-hydraulics, Paul Scherrer Institut, Switzerland</td>
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<td>14:30</td>
<td>Title: Severe Accident Mitigation Strategy for the Generation II PWRs in France – Management of the Water in the Reactor Cavity Pit. The IRSN Point of View</td>
<td>Mr. Gerard Cenerino, Senior Expert, IRSN-Nuclear Safety Division, France</td>
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**Session 9-1: Geothermal Energy**

**Time:** 10:25-12:10, September 28, 2013 (Saturday)

**Chair:** Dr. Ralf Frütschen, Head of Surveying and Geomonitoring, DMT GmbH & Co. KG, Germany

**Co-Chair:** Mr. Marek Miara, Head of Group Heat Pumps, Fraunhofer Institute for Solar Energy Systems ISE, Germany

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<td>10:25</td>
<td>Title: Induced Seismicity – a Hazard for Deep Geothermal Energy</td>
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<td>10:50-11:10</td>
<td>Outcomes of the Europe-Largest Heat Pumps Monitoring Campaign for Family Dwellings in Germany</td>
<td>Dr. Ralf Fritschen</td>
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<td>11:10-11:30</td>
<td>Strategic Considerations Concerning Deep Geothermal Energy Mining</td>
<td>Mr. Marek Miara</td>
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<td>11:30-11:50</td>
<td>The Canadian Geothermal Industry, Opportunities and Barriers</td>
<td>Mr. Paul Schenker</td>
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<td>11:50-12:10</td>
<td>The Importance of Properly Cementing Casing in Geothermal Wells to Ensure Competent Completions</td>
<td>Mr. Alan Bailey</td>
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