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HOSTING ORGANIZATIONS

- Ministry of Commerce of the People's Republic of China
- Ministry of Culture of the People's Republic of China
- Ministry of Environment Protection of the People's Republic of China
- Development Research Center of the State Council
- National Tourism Administration of the People's Republic of China
- National Energy Administration
- State Administration of Foreign Experts Affairs
- China Council for the Promotion of Trade
- China Development Bank
- The Export-import Bank of China
- The People's Government of Shaanxi Province
- International Eurasian Academy of Sciences
- The Secretariat of the Shanghai Cooperation Organization
- International Ecological Safety Collaborative Organization
- The Eurasian Economic Community
- The United Nations Development Programme
- Shanghai Cooperation Organization good-neighbory and friendly cooperation committee

GUIDING ORGANIZATION

- Ministry of Foreign Affairs of the People's Republic of China

SUPPORTING ORGANIZATIONS

- Boao Forum for Asia Annual Conference 2013

OPERATING ORGANIZATION

- Xi'an Municipal People's Government

CO-OPERATING ORGANIZATION

- BIT Congress Inc.

MEDIA PARTNERS

★ Program (Only allowed registering on our web! Do not accept on-site registration!)

New Energy Forum- 2013

Time: September 26-28, 2013
Venue: Xi'an, China

Opening Ceremony and Keynote Forum

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

Opening Ceremony and Keynote Forum on Energy

Opening Remarks

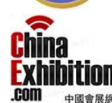
Time: 14:30-15:00, September 26, 2013 (Thursday); Place: Qujiang Auditorium, 3rd Floor, QICC

| Plenary Talks | |
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| Time: 15:00-17:40, 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 Lankan |
| 15:50-16:15 | Title: Win-win Opportunities for Euro-Asia Cooperation in Energy Efficiency Mr. Claudio Facchin , 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

| Session 1-1: New Energy, Solar Energy Policies, Market and Impacts of Environment | |
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| 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 | 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 Resource Assessment - A Key Factor in Investors' Decision to Approve Project Financing Dr. Dawei Zhang , Managing Director of Pacific Rim Region, 3TIER, China |

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



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| 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 Mr. George Atanasoff , President, AccuStrata Inc., USA |
| 09:00-09:25 | Title: Improving Photovoltaic Properties of Poly(3-hexylthiophene) by Incorporating Gold Nanoparticles Dr. Raymond Chien-Chao Tsiang , Professor, National Chung Cheng University, Taiwan |
| 09:25-09:50 | Title: The Uses of Getters Materials in the Electronic and Energy Device Dr. Antonio Bonucci , R&D Staff Scientist, SAES getters SpA, Italy |
| 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 of 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 Dr. Esidor Ntsoenzok , Professor, CNRS-CEMHTI, France |
| 11:45-12:00 | Panel Discussion |

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| Session 1-3: Advances in Other Solar Cells Technologies (Part I) <i>Time: 10:25-12:10, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Paul Boieriu , Senior Scientist, Director, EPIR Technologies Inc., USA |
| Co-Chair | Dr. Junhao Chu , Professor, Shanghai Institute of Technical Physics, East China Normal University, China |
| 10:25-10:30 | Chair's Introduction |
| 10:30-10:50 | 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 Dhere , 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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| Session 1-3: Advances in Other Solar Cells Technologies (Part II) <i>Time: 13:30-17:30, September 27, 2013 (Friday); Place:</i> | |
| 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 | Chairs Introduction |
| 13:35-13:55 | Title: Innovations in Materials for Advanced c-Si Solar Cell Cost Reduction Dr. Dustin Ho , Marketing Director, Air Liquide Electronic Business Line, USA |
| 13:55-14:15 | Title: Photovoltaic Materials for Other Solar Cell Technologies Mr. Jan Maurits , President, Poly Plant Project Inc., 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 Ege , President and CEO, Reactech Process Development Inc, Canada |
| 14:55-15:15 | Title: Novel and Affordable Solar Grade Silicon Process Dr. Oystein Oyehaug , President, Clean Silicon, Norway |
| 15:15-15:30 | Coffee Break |
| 15:30-15:50 | Title: Semiconducting Silicides for Photovoltaic Cells Dr. Junhua Hu , International Joint Research Laboratory for Low-carbon & Environmental Materials, Zhengzhou University, China |



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| 15:50-16:10 | Title: <i>Novel Molten Salts for Thermal Energy Storage Solar Power Generation</i> Dr. Ramana Reddy , Professor, The University of Alabama, USA |
| 16:10-16:30 | Title: <i>Application of Phosphonate Self-Assembled Monolayers to Dye-Sensitized Solar Cells</i> Dr. Chun Pei Cho , Assistant Professor, National Chi Nan University, Taiwan |
| 16:30-16:50 | Title: <i>New Solar Cell Materials and Devices based on CsSnI₃</i> . Dr. Yuhang Ren , Deputy Director, National Photovoltaic Research Center, Chinese Academy of Sciences, China |
| 16:50-17:10 | Title: <i>Rational Design of New Molecular Materials for Organic and Dye-Sensitized Solar Cells</i> Dr. Wai-Yeung Wong , Chair Professor, Institute of Molecular Functional Materials and Department of Chemistry, Hong Kong Baptist University, Hong Kong, China |
| 17:10-17:30 | Title: <i>About Application of Passivation Processes on More Types of Si-based Solar Cells</i> Dr. Emil Pincik , Deputy Head of the Department, Institute of Physics SAS, Slovak Republic |

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| Session 1-4: Solar Energy Products and Applications <i>Time: 08:30-12:10, September 28, 2013 (Saturday);</i> | |
| 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: <i>Experimental and Numerical Study on the Solar Photocatalytic Hydrogen Production Reactor</i> Dr. Dengwei Jing , Associate Professor, Xi'an Jiaotong University, China |
| 08:55-09:15 | Title: <i>Flexible Thin Film Technology Allows Manufacturing of Real BIPV</i> Dr. Karsten Otte , CEO, Solarion AG, Germany |
| 09:15-09:35 | Title: <i>Next Generation Concentrating Solar Collectors for Rooftops</i> Dr. Gary Rosengarten , Professor, RMIT University, Australia |
| 09:35-09:55 | Title: <i>Some Solar Power Concentrated Devices with Special Reference to Solar Bowl</i> Dr. M. A. K. Lodhi , Professor, Department of Physics, Texas Tech University, USA |
| 09:55-10:15 | Title: <i>CPC-evacuated Tube Collector Applications for Process and District Heating up to 160 C</i> Dr. Rolf Meissner , Managing Director, Ritter XL Solar GmbH, Germany |
| 10:15-10:30 | Coffee Break |
| 10:30-10:55 | Title: <i>What Solar Design Can Do for You?</i> Dr. Tjerk Reijenga , Principal – Architect, BEAR-ID, The Netherlands |
| 10:55-11:20 | Title: <i>Solar Thermal Cooling, An Overview and Perspectives</i> Dr. Salman Ajib , Professor, University of Applied Sciences, Hochschule Ostwestfalen-Lippe, Germany |
| 11:20-11:45 | Title: <i>Solar Buildings and the Urban Environment</i> Dr. Anne-Francoise Marique , Research Engineer, University of Liège, Belgium |
| 11:45-12:10 | Title: <i>New Energy for the New World: Transforming Lives Drive Successful Business Model</i> Mr. Jason Yap , Financial Controller, D.light Design, USA |

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

Forum 2: Wind Energy

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| Session 2-1: Wind Energy Policy, Market and Environmental Impact <i>Time: 08:30-11:45, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Mike Woebbecking , Head of Certification Body, GL Renewables Certification, Germany |
| Co-Chair | Dr. Georgy Ermolenko , CEO, JSC "Wind Energy Systems", Russia |
| 08:30-08:35 | Chairs Introduction |

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| 08:35-09:00 | Title: <i>Wind Power Expansion and Investments in China and North America: Key Success Factors and Opportunities</i> Mr. Francois Nguyen , Director International Energy Policy, Alberta Department of Energy, Canada |
| 09:00-09:25 | Title: <i>Certification-a Decade of Lessons Learnt</i> Dr. Mike Woebeking , Head of Certification Body, GL Renewables Certification, Germany |
| 09:25-09:50 | Title: <i>The Environmental Assessment Process for Wind Energy Projects in Ontario, Canada</i> Mr. Martin Ince , President, M.K. Ince and Associates LTD., Canada |
| 09:50-10:15 | Title: <i>Wind Energy Industry Market and Investment</i> Dr. Rene Wamkeue , Full Professor, School of Engineering, UQAT, Canada |
| 10:15-10:30 | Coffee Break |
| 10:30-10:55 | Title: <i>Wind Energy Sector of Russia: Past, Present, Future</i> Dr. Georgy Ermolenko , CEO, JSC "Wind Energy Systems", Russia |
| 10:55-11:20 | Title: <i>Exploitation of Wind Resources in India -Lessons Learnt</i> Mr. Kadhivel Boopathi , Scientist & Wind Resource Assessment Unit Head i/c, Centre for Wind Energy Technology, India |
| 11:20-11:45 | Panel Discussion |

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| Session 2-2: Wind Turbine Technology and Wind Farm Management & Operation | |
| <i>Time: 13:30-15:15, September 27, 2013 (Friday);</i> | |
| Chair | Mr. Kim Bertelsen , CEO, Global Lightning Protection Services A/S, Denmark |
| Co-Chair | Dr. Uwe Ritschel , Managing Director, Windrad Engineering GmbH, Germany |
| 13:30-13:35 | Chair's Introduction |
| 13:35-13:55 | Title: <i>Wind Energy Resource Assessment: From Engineering to Weather Science</i> Mr. Dawei Zhang , Managing Director of Pacific Rim Region, 3TIER, China |
| 13:55-14:15 | Title: <i>Lightning Protection as a Natural Part Wind Turbine Designs</i> Mr. Kim Bertelsen , CEO, Global Lightning Protection Services A/S, Denmark |
| 14:15-14:35 | Title: <i>Simulation Assisted Optimization of Wind Turbines</i> Dr. Uwe Ritschel , Managing Director, Windrad Engineering GmbH, Germany |
| 14:35-14:55 | Title: <i>Wind-Turbine Technology, the Basic Requirement for Profitable Wind-Power Investment</i> Mr. Fritz Fahrner , President, SETEC-Windpower, Germany |
| 14:55-15:15 | Title: <i>Simulation and Mixed Reality for Wind Turbine Education</i> Dr. Chenn Zhou , Professor, Purdue University, USA |

Forum 3: Energy Storage and Smart Grid Technologies

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| Session 3-1: Energy Storage Market and Technologies | |
| <i>Time: 08:30-11:40, September 27, 2013 (Friday);</i> | |
| Chair | Mr. Stephane Bilodeau , President, Groupe Enerstat Inc., Canada |
| Co-Chair | Mr. Robert Frazier , Directory of Technology, CenterPoint Energy, Inc., USA |
| 08:30-08:35 | Chair's Introduction |
| 08:35-09:00 | Title: <i>Nanomaterials: Towards Energy Storage Applications</i> Dr. Bingqing Wei , Professor of Mechanical Engineering, University of Delaware, USA |
| 09:00-09:25 | Title: <i>Thermal Energy Storage Implementation and Operation in Critical Applications</i> Mr. Stephane Bilodeau , President, Groupe Enerstat Inc., Canada |
| 09:25-09:50 | Title: <i>Dense Energy Storage with Ultrafast Charge/Discharge from Dispersion Forces in Nanotubes</i> Dr. Fabrizio Pinto , Professor, Jazan University (KSA) and President & CEO, InterStellar Technologies Corporation, USA |
| 09:50-10:15 | Title: <i>Overview of Energy Storage Technologies and Their Application for Smart Grid</i> Dr. Ting An , Chief Expert – System Design for Smart Equipment, Smart Grid Research Institute, the State Grid Cooperation of China, China |
| 10:15-10:30 | Coffee Break |
| 10:30-10:55 | Title: <i>Develop Your Smart Grid Vision, Execute a Successful Project and Communicate the Benefits: CenterPoint Energy's Story</i> Mr. Robert Frazier , Directory of Technology, CenterPoint Energy, Inc., USA |
| 10:55-11:20 | Title: <i>Electrochemical Energy Storage Technologies and Applications</i> Dr. Raul Diaz , Senior Assistant Researcher, IMDEA Energy, Spain |
| 11:20-11:40 | Panel Discussion |

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| Session 3-2: Smart Grid Regulation, Policy and Investment | |
| <i>Time: 15:30-17:15, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Jeffrey R Hammarlund , Professor, Portland State University, USA |

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| Co-Chair | Mr. Stephen Brown , Technologies Director, CSA Group, Canada |
| 15:30-15:35 | Chair's Introduction |
| 15:35-15:55 | Title: An Emerging Smart Grid, Demand Response and Energy Storage Strategy for the Pacific Northwestern Region of the United States Dr. Jeffrey Hammarlund , Professor, Portland State University, USA |
| 15:55-16:15 | Title: Smarter Smart Grids - Plug and Play Dr. Caroline Judy , Assistant Director, General Services Agency, USA |
| 16:15-16:35 | Title: Smart Grid Standards – A Mechanism to Enhance and Enforce Policy, Regulation and Incentives Mr. Stephen Brown , Technologies Director, CSA Group, Canada |
| 16:35-16:55 | Title: Smart Grids in Brazil: Research, Development and Implementation Progresses Dr. Dionizio Paschoareli Jr , Professor, UNESP - Ilha Solteira, Brazil |
| 16:55-17:15 | Title: Simulating the Household Plug-in Hybrid Electric Vehicle Distribution and Its Electric Distribution Network Impacts Dr. Xiaohui (Sean) Cui , Dean of International Software School, Wuhan University, China |

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| Session 3-3: Grid Integration & Energy Storage for Renewable Energies | |
| <i>Time: 08:30-12:10, September 28, 2013 (Saturday);</i> | |
| Chair | Dr. Mohammed Safiuddin , President, STS International; Research Professor Emeritus, University at Buffalo, USA |
| Co-Chair | Mr. Tim Lindquist , CEO, PORTUS, Australia |
| 08:30-08:35 | Chair's Introduction |
| 08:35-09:00 | Title: Active Power Grid Element; Energy Storage Solutions to Drive Power Quality & Stabilization Distribution Networks Mr. Jan Teichmann , Director Sales & Marketing Storage C, Siemens AG, Germany |
| 09:00-09:25 | Title: Integration of Renewable Energy at the Global Level-a Vision Dr. Mohammed Safiuddin , President, STS International, USA |
| 09:25-09:50 | Title: Power-to-Gas: a Renewable Energy Storage Applications for Hydrogen Mr. Filip Smeets , General Manager On-site Generation, Hydrogenics, Belgium |
| 09:50-10:15 | 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 |
| 10:15-10:30 | Coffee Break |
| 10:30-10:55 | Title: Decentralised Management of Distributed Energy Resources in the Distribution Network Mr. Tim Lindquist , CEO, PORTUS, Australia |
| 10:55-11:20 | 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 |
| 11:20-11:45 | Title: The Innovative Hybrid Power Plant in Icaria Island Greece Promises a Wide Scale Energy Storage. A Techno Economic Analysis under the Construction Experience Dr. Constantinos G. Karagiannopoulos , Professor, National Technical University of Athens, Greece |
| 11:45-12:10 | Title: Considerations on Voltage Stabilizing Control for a dc-bus Linked Autonomous Distributed Power Supply System Dr. Mikihiko Matsui , Professor, Tokyo Polytechnic University, Japan |

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| Session 3-4: Smart Grid Interconnections, Communications and Implementation | |
| <i>Time: 08:30-10:15, September 28, 2013 (Saturday);</i> | |
| Chair | Mr. Leonhard Korowajczuk , CEO/CTO, CelPlan International, Inc., USA |
| Co-Chair | Mr. Patrick Avery , General Manager Automation, G&W Electric Co., USA |
| 08:30-08:35 | Chair's Introduction |
| 08:35-08:55 | Title: Smart Grid Wireless Design Considerations Mr. Leonhard Korowajczuk , CEO/CTO, CelPlan International, Inc., USA |
| 08:55-09:15 | Title: Smart City Development in Sino-Singapore Guangzhou Knowledge City Mr. Nee Pai Chee , Vice President, Sino-Singapore Guangzhou Knowledge City, China |
| 09:15-09:35 | Title: Smart Grid Demand Response Mr. Prateek Saxena , Vice President-Utilities, Mahindra, USA |
| 09:35-09:55 | Title: Renewable Energy Automation Mr. Patrick Avery , General Manager, G&W Electric Co., USA |
| 09:55-10:15 | Title: Smart Grid and Security Analysis in the Context of AMI (Advanced Metering Infrastructure) Dr. D. M Akbar Hussain , Associate Professor, Department of Energy Technology, Aalborg University, Denmark |

Forum 4: Offshore Wind Energy and Marine Renewable Energy

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| Session 4-1: Offshore Wind Energy and Marine Renewable Energy | |
| <i>Time: 08:30-10:15, September 27, 2013 (Friday);</i> | |

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

Forum 5: Advances in Other New Energy Technology

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| Session 5-1: Hydropower/Hydroelectricity | |
| <i>Time: 08:30-10:15, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Gianluca Stanic , Technical Director, Marelli Motori, Italy |
| 08:30-08:35 | Chair's Introduction |
| 08:35-08:55 | Title: Developing Hydropower and Preserving Large River Ecosystems Dr. Jean Francois Donzier , General manager, International Office for Water, France |
| 08:55-09:15 | Title: Innovative Solutions for Mini Hydroelectric Power Plants Dr. Gianluca Stanic , Technical Director, Marelli Motori, Italy |
| 09:15-09:35 | Title: Global Hydropower Growth and Opportunities Mr. Steven Usher , Deputy Editor, The International Journal on Hydropower & Dams (Aqua-Media International Ltd.), UK |
| 09:35-09:55 | Title: Remote Control Technologies Are Changing Hydro Operations Mr. Kerry J LaLiberte , Director, Navigant Consulting, USA |
| 09:55-10:15 | Title: New Ways of Societal Dialogue to Ensure Acceptance of Large Industrial Projects Mr. Antonio Jorge Abreu , President, EISA, Brazil |

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| Session 5-2: LED Light | |
| <i>Time: 10:30-12:10, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Holger Winkler , Head of RD Solid State Lighting, Merck KGaA, Germany |
| Co-Chair | Dr. Hanmin Zhao , CTO, Latticepower (Jiangxi) Corporation, China |
| 10:30-10:35 | Chair's Introduction |
| 10:35-11:00 | Title: Phosphors Impact on LED Characteristics Dr. Holger Winkler , Head of RD Solid State Lighting, Merck KGaA, Germany |
| 11:00-11:25 | Title: Color Quality and Brightness of White LEDs-the Needs of the High-performance Phosphor Mixtures for Indoor Lighting Dr. Peter Bodrogi , Senior Research Fellow, Laboratory of Lighting Technology, Technische Universität Darmstadt, Germany |
| 11:25-11:50 | Title: High Efficiency LEDs Based on New GaN-on-Silicon Technology Dr. Hanmin Zhao , CTO, Lattice Power Corp., China |
| 11:50-12:10 | Title: Meeting the Needs of Longevity, How Power Supply Vendors are Achieving Long Lifetimes Dr. Shane Callanan , Director of Applications Engineering, EXCELSYS Technologies, Ireland |

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| Session 5-3: Lithium Batteries | |
| <i>Time: 08:30-12:10, September 28, 2013 (Saturday);</i> | |
| Chair | Dr. Shi Xue Dou , Professor, Director, Institute for Superconducting & Electronic Materials, University of Wollongong, Australia |
| Co-Chair | Dr. MuMu Moorthi , President, Battery Consulting, USA |
| 08:30-08:35 | Chair's Introduction |
| 08:35-09:00 | Title: Electronic Strain and Chemical Doping for Improvement of Materials Performance Properties Dr. Shi Xue Dou , Professor, Director, Institute for Superconducting & Electronic Materials, University of Wollongong, Australia |
| 09:00-09:25 | Title: New Energy Technology: Shipping and Transport Issues for Lithium Batteries, Ultra-capacitors, Fuel Cell Technology and other Dangerous Goods Mr. James E. Powell , President, Transportation Development Group LLC, USA |
| 09:25-09:50 | Title: The Safe Transport of Lithium Batteries by Air Ms. Janet McLaughlin , Deputy Director, Hazardous Materials Safety, Federal Aviation Administration, USA |
| 09:50-10:15 | Title: Development of Efficient Carbon Anode Material for a High-Power and Long-Life Lithium Ion Battery |

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| | Dr. Hiroyuki Fujimoto , Research Supervisor, Energy technology laboratories, Osaka Gas Co., Ltd, Japan |
| 10:15-10:30 | Coffee Break |
| 10:30-10:55 | Title: Novel Lithium Ion Battery Materials for the Future Dr. MuMu Moorthi , President, Battery Consulting, USA |
| 10:55-11:20 | Title: Development of Nanomaterials for Energy Storage Dr. Hua Kun Liu , Professor, Leader of Energy Materials Research Program, University of Wollongong, Australia |
| 11:20-11:45 | Title: Improved Electrochemical Performance of Hollow Sphere Li-rich Cathode Material for Lithium Ion Battery Mr. Xin He , MEET Battery Research Center/Institute of Physical Chemistry, University of Muenster, Germany |
| 11:45-12:10 | Panel Discussion |

Forum 6: Hydrogen Energy

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| Session 6-1: Fuel Cell Technologies-Application and Outlook | |
| <i>Time: 13:30-17:30, September 27, 2013 (Friday);</i> | |
| 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 |
| 13:30-13:35 | Chair's Introduction |
| 13:35-13:55 | Title: High Temperature Fuel Cells for Clean and Efficient Power Generation Dr. Subhash 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 Bollepalli , 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 Bertuol , 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 Eremeev , Boreskov Institute of Catalysis, Russia |

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| Session 6-2: Hydrogen Production and Hydrogen Storage Materials & Systems | |
| <i>Time: 08:30-10:15, September 28, 2013 (Friday);</i> | |
| Chair | Dr. Dan Eliezer , Chief Scientist and VP, C.En Ltd., Switzerland |
| 08:30-08:35 | Chair's Introduction |
| 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 NaAlH₄-Mg(AlH₄)₂ Complex Metal Hydrides Dr. Wen-Ta 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-Meligi , 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

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| Session 7-1: Renewable Bio-energy | |
| <i>Time: 13:30-17:30, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Manfred Kircher , Chairman, CLIB2021 Cluster Industrielle Biotechnologie, Germany |

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| Co-Chair | Mr. Josef Modl , Executive Vice President, Vogelbusch GmbH, Austria |
| 13:30-13:35 | Chair's Introduction |
| 13:35-13:55 | Title: Biomass Thermochemical Conversions for Gaseous and Liquid Fuels Dr. Xavier Deglise , Professor Emeritus, University of Lorraine, France |
| 13:55-14:15 | Title: Industrial Biotechnology Enables Unusual Value Chains Dr. Manfred Kircher , Chairman of the Advisory Board, CLIB2021, Germany |
| 14:15-14:35 | Title: DDGS as a Sustainable Renewable Source of Biofuel and High Protein Feed Product Dr. Pavel Krasutsky , Director of Chemical Extractive Program & Professor, University of Minnesota, USA |
| 14:35-14:55 | Title: Marelli Experience in Co-generation Energy Production Mr. William Loke Wai Lam , Sales Area Manager, Marelli Asia Pacific, Malaysia |
| 14:55-15:15 | Title: Integrated Lipid Platform for Producing High-Value Co-products and "Drop-in" Biofuels from Renewable Resources Dr. Shulin Chen , Professor and Leader, Bioprocessing and Bioproduct Engineering Laboratory, Washington State University, USA |
| 15:15-15:30 | Coffee Break |
| 15:30-15:50 | Title: Special Downstream Solutions-a Key Part in Making Second Generation Ethanol Commercial Mr. Josef Modl , Executive Vice President, Vogelbusch GmbH, Austria |
| 15:50-16:10 | Title: Improvement of Fuel Characteristics of Fishing-boat Fuel with Biodiesel Addition Dr. Cherng-Yuan Lin , Distinguished Professor of Energy Department of Marine Engineering, National Taiwan Ocean University, Taiwan |
| 16:10-16:30 | Title: Novel Characteristics of Pretreated, Densified and Stored Prairie Cord Grass Dr. Kasiviswanathan Muthukumarappan , Distinguished Professor and Graduate Coordinator, South Dakota State University, USA |
| 16:30-16:50 | Title: The China "Grow West" Programme (proposal): Developing Drylands Agriculture in the Western interior of China Ms. Manuela Zoninsein , CEO, Smart Agriculture Analytics, China |
| 16:50-17:10 | Title: Use of Plant-Derived Carbohydrates as an Alternative Carbon Source for Enhancing the Production of Coalbed Natural Gas Dr. Zaixing Huang , Center for Biogenic Natural Gas Research, Department of Civil & Architectural Engineering, University of Wyoming, USA |
| 17:10-17:30 | Title: Valorisation of Lignocellulosic Biomass Waste from Production of Bio-fuels Dr. Jim Song , Professor, Director of Materials Research, Wolfson Centre for Materials Processing Brunel University, UK |

Forum 8: Nuclear Energy

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| Session 8-1: Global Nuclear Energy Outlook, Policy and Financing <i>Time: 15:30-17:35, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Massimiliano Nobile , Director, Italian-Russian Cooperation Agreement, Moscow – Russian Federation, Italy |
| Co-Chair | Mr. Ruben Mazzi , CEO, Director, INVAP Australia Pty Ltd, Australia |
| 15:30-15:35 | Chair's Introduction |
| 15:35-15:55 | Title: The Italian-Russian Cooperation Agreement for Global Partnership -Main Results after 8 Years of Activities Dr. Massimiliano Nobile , Director, Italian-Russian Cooperation Agreement, Moscow – Russian Federation, Italy |
| 15:55-16:15 | Title: Nuclear Energy Development Prospects in Argentina Mr. Ruben Mazzi , CEO, INVAP Australia Pty Ltd, Australia |
| 16:15-16:35 | Title: Challenges and Trends for Financing Nuclear Power Projects Mr. Young Joon Kim , Partner, Milbank Tweed Hadley & McCloy, USA |
| 16:35-16:55 | Title: Outlook for Nuclear Power in Slovakia in the Light of the Fukushima NPP Accident and Near Future Dr. Eduard Metke , Directory General, Nuclear Regulatory Authority, Slovakia Republic |
| 16:55-17:15 | Title: The Italian - Russian Cooperation Agreement for Global Partnership - Considerations of Juridical and Organizational Nature: How to Pave the Way to a Success Dr. Pietro Maria Paolucci , Director, Ministry for Economic Development-Direction General for International Trade Policy, Italy |
| 17:15-17:35 | Title: World Nuclear Energy Strategies from the Viewpoint of Environment and Sustainability Ms. Kyoko Mukaida , Staff, Japan Atomic Energy Agency (JAEA), Japan |

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| Session 8-2: Nuclear Construction and Supply Chain <i>Time: 13:30-15:15, September 27, 2013 (Friday);</i> | |
| Chair | Dr. Tsuneo Futami , Professor, Business Breakthrough University, Japan |
| Co-Chair | Mr. Paul Adler , Chief Executive Officer, KorteQ Ltd, UK |
| 13:30-13:35 | Chair's Introduction |
| 13:35-14:00 | Title: Three Losses and Three Diversities |

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| | Dr. Tsuneo Futami , Professor, Business Breakthrough University, Japan |
| 14:00-14:25 | Title: The Engineering Workforce: Modernising Learning, Development and Collaboration Mr. Paul Adler , Chief Executive Officer, KorteQ Ltd., UK |
| 14:25-14:50 | Title: Critical Nuclear Infrastructure Vulnerability Dr. Ashraf Elsayed Mohamed Mohamed , Professor, Institute of Manufacturing, Egypt |
| 14:50-15:15 | Title: Qualification and Re-qualification of In-Containment Components and Materials -Simulated Aging and Degradation Mr. Milan Tesinsky , Nuclear Design Engineer, Westinghouse Electric, Sweden |

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| Session 8-3: Nuclear Power Reactors and Fuel Cycle/Uranium Supply | |
| <i>Time: 13:30-17:10, September 28, 2013 (Saturday);</i> | |
| Chair | Dr. Igor Piore , Professor, University of Ontario Institute of Technology, Canada |
| Co-Chair | Dr. Satoru Tanaka , Professor, University of Tokyo, Japan |
| 13:30-13:35 | Chairs Introduction |
| 13:35-13:55 | Title: Asian Multilateral Nuclear Approach - Study on Sustainable Regional Nuclear Fuel Cycle Dr. Satoru Tanaka , Professor, University of Tokyo, Japan |
| 13:55-14:15 | Title: The Strategic Role of Accelerator Driven System in Nuclear Fuel Cycle Dr. Haihong Xia , Vice President, State Nuclear Power Research Institute (SNPRI), China |
| 14:15-14:35 | Title: Nuclear Power as a Basis for Future Electricity Production in the World: Generation III and IV Reactors Dr. Igor Piore , Professor, University of Ontario Institute of Technology, Canada |
| 14:35-14:55 | Title: Nuclear Data Produced at the Radioactive Isotope Beam Factory Dr. Hiroyoshi Sakurai , Chief Scientist, RIKEN, Nishina Center for Accelerator-Based Science, Japan |
| 14:55-15:15 | Title: Materials Challenges and Opportunities in the Development of Supercritical Water Cooled Reactors (SCWR) Dr. Wenyue Zheng , Program Manager-Materials for Energy Production, NRCAN, Canada |
| 15:15-15:30 | Coffee Break |
| 15:30-15:50 | Title: Uranium Mining-Weak Link in the Global Renaissance Dr. Wallace M. Mays , President, WM Mining Company, USA |
| 15:50-16:10 | Title: Development of a Small INPRO-Compatible Nuclear Reactor in Ecuador and Vietnam Dr. Farhang Sefidvash , Invited Professor, Escuela Politcnica Nacional – EPN, Ecuador |
| 16:10-16:30 | Title: SVBR-100: New Generation Nuclear Power Plants for Small and Medium-sized Power Applications Mr. Alexey Kondaurov , First Deputy Director General, AKME-engineering, Russia |
| 16:30-16:50 | Title: Bushehr Nuclear Power Plant from Beginning to Final Stage (Electricity) Dr. Reza Amrollahi , Dean of Faculty of Energy and Physics, Amirkabir University of Technology, Iran |
| 16:50-17:10 | Title: Advanced Designs of VVER Reactor Plant Mr. Anton Kuzmichev , Design Engineer, OKB "GIDROPRESS", Russia |

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| Session 8-4: Nuclear Regulation, Safety, Sustainability and Public Perception | |
| <i>Time: 13:30-15:10, September 28, 2013 (Saturday);</i> | |
| Chair | Dr. Yutaka Sagayama , Director General, Japan Atomic Energy Agency, Japan |
| 13:30-13:35 | Chair's Introduction |
| 13:35-14:00 | Title: Regulatory Approach on "3S" Concept Implementation Strategy Mr. Lucian Leonida Biro , Nuclear Safety & Security Senior Adviser, National Commission for Nuclear Activities Control (CNCAN), Romania |
| 14:00-14:25 | Title: SFR R&D Activities in Japan from the Aspect of the Safety Design Criteria of GIF Dr. Yutaka Sagayama , Director General, Japan Atomic Energy Agency, Japan |
| 14:25-14:50 | Title: Merits of Filtered Containment Venting Enhancing Defense in Depth in Plant Safety and Protecting Environment Dr. Salih Guentay , Deputy Head, Laboratory for thermal-hydraulics, Paul Scherrer Institut, Switzerland |
| 14:50-15:10 | 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 Mr. Gerard Cenerino , Senior Expert, IRSN-Nuclear Safety Division, France |

Forum 9: Geothermal Energy

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| Session 9-1: Geothermal Energy | |
| <i>Time: 10:25-12:10, September 28, 2013 (Saturday);</i> | |
| Chair | Dr. Ralf Fritschen , 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 |
| 10:25-10:30 | Chair's Introduction |
| 10:30-10:50 | Title: Induced Seismicity – a Hazard for Deep Geothermal Energy |

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| | Dr. Ralf Fritschen , Head of Surveying and Geomonitoring, DMT GmbH & Co. KG, Germany |
| 10:50-11:10 | Title: <i>Outcomes of the Europe-Largest Heat Pumps Monitoring Campaign for Family Dwellings in Germany</i> Mr. Marek Miara , Head of Group Heat Pumps, Fraunhofer Institute for Solar Energy Systems ISE, Germany |
| 11:10-11:30 | Title: <i>Strategic Considerations Concerning Deep Geothermal Energy Mining</i> Mr. Paul Schenker , President, Campus Foundation, Switzerland |
| 11:30-11:50 | Title: <i>The Canadian Geothermal Industry, Opportunities and Barriers</i> Mr. Martin Ince , President, M.K. Ince and Associates LTD., Canada |
| 11:50-12:10 | Title: <i>The Importance of Properly Cementing Casing in Geothermal Wells to Ensure Competent Completions</i> Mr. Alan Bailey , Manager of Engineering, Geothermal Resource Group, USA |

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