

# Bioenergy

Theme: Renewable Energy for Sustainability

Time: April 25-28, 2012

Place: Xi'an, China

<b>Keynote Forum</b> April 25, 2012 (Wednesday) Time: 13:30-16:10	
<b>Moderator:</b>	<a href="#">Call for Moderator</a>
13:30-13:40	<b>Moderator's Introduction</b>
13:40-14:10	<b>Title:</b> DuPont Industrial Biosciences Strategies for Success: Building out the Bio-based Economy <b>Mr. Floris Luger</b> , Vice President, Business Development, Genencor, DuPont Industrial Biosciences, USA
14:10-14:40	<b>Title:</b> Advancing the Algal Fuel Industry through Innovations <b>Dr. Xun Wang</b> , Senior Vice President, Sapphire Energy Inc. CA, USA
14:40-15:10	<b>Title:</b> Europe's View on Sustainable Liquid Biofuels <b>Dr. Robert M.S. Vierhout</b> , Secretary-General, ePURE, European Renewable Ethanol Association, Belgium
15:10-15:40	<b>Title:</b> Commercialization of Cellulosic Biofuel in China <b>Dr. Xiucal Liu</b> , Founder and Chief Executive Officer, Cathay Industrial Biotech Ltd., China
15:40-16:10	<b>Title:</b> Waste Gases to Chemicals Platform <b>Dr. James Zhang</b> , Vice President, Business Development, LanzaTech Inc., China

## Track 1: Global Bioenergy Economy and Policy

<b>Session 100: Global Bioenergy Economy and Policy</b> 08:30-12:10, April 26, 2012 (Thursday)	
<b>Chair:</b>	<b>Dr. Peter Lohmander</b> , Professor, Forest Management and Economic Optimization, Swedish University of Agricultural Sciences, Sweden
<b>Co-Chair</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Advancing Federal Biomass Policy through Legislative Initiatives <b>Mr. Michael R. Brower</b> , Senior Federal Policy Director, Mosaic Federal Affairs LLC/Hiscock & Barclay LLP., USA
09:00-09:25	<b>Title:</b> Economical Pathways towards Sustainable Biofuels and Energy <b>Mr. Paul O'Connor</b> , Director Science & Technology, BIOeCON BV and ANTECY BV, The Netherlands
09:25-09:50	<b>Title:</b> Renewable Energy, Biomass and Alternatives for Sustaining Agriculture <b>Dr. Stephen J. Herbert</b> , Professor & Associate Dean, University of Massachusetts, USA
09:50-10:15	<b>Title:</b> Economic Optimization of Sustainable Energy Systems Based on Forest Resources with Consideration

	of the Global Warming Problem: International Perspectives <b>Dr. Peter Lohmander</b> , Professor, Forest Management and Economic Optimization, Swedish University of Agricultural Sciences, Sweden
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Global Impact Pathways of Biofuels and on Poor <b>Dr. Jun Yang</b> , Senior Research Staff, Center for Chinese Agricultural Policy, Chinese Academy of Sciences, China
10:55-11:20	<b>Title:</b> TBD <b>Dr. Fabio V. Matera</b> , Researcher, Italian National Research Council, Italy
11:20-11:45	<a href="#">Speech Opportunity Available</a>
11:45-12:10	<b>Panel Discussion</b>

### Session 101: Global Biofuel Programs/Biofuels in Developing and Developed Countries

08:30-12:10, April 27, 2012 (Friday)

<b>Chair:</b>	<b>Dr. Jianzhong Sun</b> , Director of Biofuels Institute of Jiangsu University, China
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> The Economics of Enzyme Production for 2nd Generation Fuel Ethanol <b>Dr. Halyu Ren</b> , Business Development Manager, Novozymes A/S, Denmark
09:00-09:25	<b>Title:</b> Biofuel from Micro-algae, Possibility and Limitation <b>Dr. Nathalie Dubois Calero</b> , Vice President R&D, Alga-Labs, Canada
09:25-09:50	<b>Title:</b> Bioenergy in Sweden <b>Dr. Wennan Zhang</b> , Associate Professor, Department of Natural Science, Engineering and Mathematics, Mid Sweden University, Sweden
09:50-10:15	<b>Title:</b> Lignocellulose-Centered Biofuels in the 21st Century: Challenges and Opportunities to China and the world <b>Dr. Jianzhong Sun</b> , Director of Biofuels Institute of Jiangsu University, China
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Overview of Biomass Industry in the Western United States <b>Mr. Hugh Merriam</b> , Senior Resource Analyst, PGE, USA
10:55-11:20	<b>Title:</b> Identifying Potential Areas for Biofuel Production and Evaluating the Environmental Effects in the Midwestern United States <b>Dr. Yiping Wu</b> , Scientist, ASRC Research and Technology Solutions, contractor to the U.S. Geological Survey, (USGS) Earth Resources Observation and Science (EROS) Center, USA
11:20-11:45	<b>Title:</b> Biofuel Development in Indonesia: Progress and Challenges <b>Mr. Heru Komarudin</b> , Senior Researcher, Center for International Forestry Research (CIFOR), Indonesia

11:45-12:10	<a href="#">Speech Opportunity Available</a>
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## Track 2: Industrial Leadership Forums

**Global Bioenergy Executive Forum**  
**Industrial Leadership Forum on Lignocellulosic Ethanol**  
**Industrial Leadership Forum on Biodiesel**  
**Industrial Leadership Forum on Biogas**  
**Industrial Leadership Forum on Algae Biofuel**  
**Industrial Leadership Forum in Advanced Biofuel**

<b>Session 200: Industrial Leadership Forums</b>	
08:30-12:10, April 26, 2012 (Thursday)	
<b>Chair:</b>	<b>Dr. Nicholas C Ashby</b> , Founder & CEO, Celadon Capital; Project Manager, Biologic Technologies, Malaysia
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<a href="#">Speech Opportunity Available</a>
09:00-09:25	<b>Title:</b> Cellulosic Ethanol from Cassava Residues – A Golden Near-term Opportunity for China <b>Dr. Steven M Martin</b> , Executive R&D Director, TMO Renewables Ltd., UK
09:25-09:50	<b>Title:</b> TBD <b>Dr. Todd Ellis</b> , VP Sales/Business Development, Imperium Renewables Inc., USA
09:50-10:15	<a href="#">Speech Opportunity Available</a>
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Proesa™ –From an Idea to Commercialization -----Breakthrough Technology for Producing Advanced Bio-Fuels and Renewable Chemicals <b>Mr. Ian He</b> , Vice President-Technology & Business Development, Chemtex, China
10:55-11:20	<b>Title:</b> TBD <b>Mr. Nii Saashi</b> , Programs Manager, OneVillage Foundation, USA
11:20-11:45	<a href="#">Speech Opportunity Available</a>
11:45-12:10	<b>Panel Discussion</b>

## Track 3: Breaking Research and Enable Biofuel Technology

<b>Session 300: Breaking Research and Enable Biofuel Technology (Part I)</b>
08:30-12:10, April 26, 2012 (Thursday)
<b>Synthetic Biology and Microbiology for Lignocellulosic Biomass</b>

**Practical Microbial Strain and Metabolic Engineering for Biofuels  
Extremophilic Enzyme Development for Biofuel Production**

<b>Chair:</b>	<b>Dr. Pirkko Suominen</b> , Director, Cargill, Biotechnology Development Center, USA
<b>Co-Chair:</b>	<b>Dr. Yajun Yan</b> , Assistant Professor, The University of Georgia, USA
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Genetically Engineered Saccharomyces Yeast Capable of Efficiently Converting all C5/C6 Sugars present in Cellulosic Biomass to Fuels and Chemicals <b>Dr. Nancy W. Y. Ho</b> , Research Professor, Purdue University, Green Tech America, Inc., USA
09:00-09:25	<b>Title:</b> Separation Technologies as Tools for Converting Biomass to Low Cost Fermentable Sugars, High Quality Lignin and Tall Oils <b>Dr. Michael Zviely</b> , Vice President R&D, HCL CleanTech Ltd., Research & Development Department, Israel
09:25-09:50	<b>Title:</b> Bio-Energy Will Only Develop If Various Biomass Wastes Could Be Easily and Competitively Converted into Energy, Through Prior Gasification or Conversion to liquid <b>Dr. Isaac Behar</b> , CEO, "Biomass SynGas Energy" & of "OsmoGas" Companies, France
09:50-10:15	<b>Title:</b> Cargill's CB1 Platform for Cellulosic Ethanol Production <b>Dr. Pirkko Suominen</b> , Director, Cargill, Biotechnology Development Center, USA
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Dehydratase Mediated 1-Propanol Production in Metabolically Engineered Escherichia coli <b>Dr. Yajun Yan</b> , Assistant Professor, The University of Georgia, USA
10:55-11:20	<b>Title:</b> Biobutanol Production from Lignocellulose with Engineered Strains <b>Dr. Tom Granstrom</b> , Senior Research Fellow, Aalto University, Finland
11:20-11:45	<b>Title:</b> Extremophilic Lipase Development for Biodiesel Production <b>Dr. Vasudeo P. Zambare</b> , General Manager, Sequence Biotech Pvt. Ltd, Nashik, India
11:45-12:10	<a href="#">Speech Opportunity Available</a>

**Session 301: Breaking Research and Enable Biofuel Technology (Part II)**

08:30-12:10, April 27, 2012 (Friday)

**Biocrude as an Energy Solution**  
**Innovation of Bioreactors and Control Systems for Biofuel**  
**Biomass Conversion and Separation Technologies**  
**Nanotechnology and Nanomaterials for Biofuels**  
**Coal-to-Biomass-Liquid**  
**Biofuel Engineering/Production Facility and Development**  
**Environmental Technologies for Biofuels**

**Chair:** **Dr. Zhen Fang**, Professor and Head of Research Group of Biomass Energy, Xishuangbanna Tropical

	Botanical Garden of CAS, China
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> The Economics of Renewable Fuel Oil <b>Dr. Don Roberts</b> , Managing Director, Canadian Imperial Bank of Commerce (CIBC) World Markets, Canada
09:00-09:25	<b>Title:</b> The Bioliq BTL Process for Synthetic Biofuels and Chemicals Production <b>Dr. Eckard Dinjus</b> , Professor, Karlsruhe Institute of Technology, Institute for Catalysis Research and Technology, Germany
09:25-09:50	<b>Title:</b> Highly Performing Nanostructured Polymer Materials for the Purification of Biofuels by the Sustainable Pervaporation Membrane Process <b>Dr. Anne Jonquieres</b> , Professor, Nancy University, France
09:50-10:15	<b>Title:</b> Pretreatment of Lignocellulosic Biomass in Organic Electrolyte Solutions for Biofuels <b>Dr. Zhen Fang</b> , Professor, Chinese Academy of Sciences, Biomass Group, Xishuangbanna Tropical Botanical Garden, China
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Production of Platform Chemicals in the DIBANET Project Using Novel Pre-treatment Methods and Acid Hydrolysis <b>Dr. Michael H. B. Hayes Mria</b> , Professor, Carbolea Research Group, University of Limerick, Ireland
10:55-11:20	<b>Title:</b> Determination of Optimal Plant Sizes for Complex Bio-syntheses <b>Dr. Lars-Peter Lauven</b> , Research Assistant, Georg-August-Universitat Gottingen, Germany
11:20-11:45	<b>Title:</b> Utilization of Un-utilized Carbon for Biobutanol Production <b>Dr. Youngsoon Um</b> , Senior Research Scientist, Korea Institute of Science and Technology, South Korea
11:45-12:10	<b>Title:</b> A Promising Route to Recover Biobutanol: Adsorption/Desorption with the ZIF-8 Metal Organic Framework <b>Dr. Julien Cousin Saint Remi</b> , Researcher, Vrije Universiteit Brussel, Belgium

### Session 302: Breaking Research and Enable Biofuel Technology (Part III)

08:30-12:10, April 28, 2012 (Saturday)

**Biocrude as an Energy Solution**  
**Innovation of Bioreactors and Control Systems for Biofuel**  
**Biomass Conversion and Separation Technologies**  
**Nanotechnology and Nanomaterials for Biofuels**  
**Coal-to-Biomass-Liquid**  
**Biofuel Engineering/Production Facility and Development**  
**Environmental Technologies for Biofuels**

**Chair:** [Call for Chair](#)

<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Game Changer: CO2 to Methanol Conversion <b>Mr. John M. Kocol</b> , CEO and Founder, USMEXenergy.com, USA
09:00-09:25	<b>Title:</b> Tailor-made Fuels from Biomass: The Production of MTHF <b>Dr. Anna Voll</b> , Mechanical Engineer, RWTH Aachen University, German
09:25-09:50	<b>Title:</b> TBD <b>Mr. Finn Joensen</b> , Project Manager, Haldor Topsoe, Denmark
09:50-10:15	<b>Title:</b> Transesterification of Oils with Various Alcohols Using Organic Catalysts <b>Dr. Anna Grevé</b> , Senior Scientist, Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Germany
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Petrobras Biofuel and The Challenge of Second Generation Biofuels <b>Mr. Joao Norberto Noschang Neto</b> , Senior Technology Manager, Petrobras, Brazil
10:55-11:20	<b>Title:</b> Metagenomics as Strategy for the Improvement the Biomass Production and Climatic Changes Mitigation <b>Dr. Carlos Alfredo Galindo Blaha</b> , Professor, Universidade Federal do Rio Grande do Norte, Brazil
11:20-11:45	<a href="#">Speech Opportunity Available</a>
11:45-12:10	<b>Panel Discussion</b>

#### **Track 4: Biomass Feedstock I: Agricultural, Forestry Waste and Municipal Solid Waste**

<b>Session 400: Waste to Energy as Renewable Energy Source: An Integral Part of Sustainable Waste Management Worldwide</b>	
08:30-12:10, April 26, 2012 (Thursday)	
<b>Chair:</b>	<b>Dr. Efstratios Kaloglrou</b> , The Vice President, Global WTER Council, Greece
<b>Co-Chair:</b>	<b>Dr. Athanasios C. Bourtsalas</b> , Coordinator, Global WTER Council, USA; Ph.D. Researcher, Imperial College, UK; Research Associate, Columbia University, USA
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<a href="#">Speech Opportunity Available</a>
09:00-09:25	<b>Title:</b> Industrial Sludge Containing Pharmaceutical Residue Alters Inherent Toxic Properties When Co-digested with Oat <b>Dr. Lillemor Gustavsson</b> , Operational Manager, Karlskoga Environment and Energy Company, Sweden
09:25-09:50	<b>Title:</b> Waste Management in Low-carbon Community—Strategy, Technology, And the Integrated System Design <b>Dr. Po-Han Hsu</b> , Research Associate, Fudan University, China

09:50-10:15	<b>Title:</b> The Global Wtert Council and Its Role in Advancing WTE Technologies <b>Dr. Efstratios Kalogirou</b> , The Vice President, Global WTERT Council, Greece
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Waste-to-energy and Some Health Considerations <b>Dr. Athanasios C. Boutsalass</b> , Coordinator, Global WTERT Council, USA; Ph.D. Researcher, Imperial College, UK; Research Associate, Columbia University, USA
10:55-11:20	<b>Title:</b> Electrical and Electronic Waste Management in Malaysia : Advancement and the Blockade to Conquer <b>Dr. Rafia Afroz</b> , Assistant Professor, International Islamic University, Malaysia
11:20-11:45	<b>Title:</b> Waste Utilization Processes Co-gasification <b>Dr. Farid Chejne Janna</b> , Professor, Universidad Nacional de Colombia, Colombia
11:45-12:10	<b>Title:</b> Faecal Sludge Management - Energy Recovery Opportunities in Cities with On-site Sanitation <b>Ms. Achenyo Idachaba</b> , Founder, Greenovative Chain Consulting, Nigeria

### Session 401: Feedstock from Wood and Forestry and Conversion Technology

13:30-17:10, April 27, 2012 (Friday)

<b>Chair:</b>	<b>Dr. Jeff Wright</b> , Manager and Senior Scientist, Adjunct Faculty, Biomaterials, North Carolina State University, USA
<b>Co-Chair:</b>	<b>Mr. Edward Ryall</b> , Founder, Ryall Energy, France
13:30-13:35	<b>Chair's Introduction</b>
13:35-13:55	<b>Title:</b> Torrefaction Processes for the Conversion of Agricultural and Food Residues in Biomass Derived Fuels to Be Used in Coal Fired Power Plants <b>Dr. Giovanni Ciceri</b> , Deputy Director, Environment and Sustainable Development, RSE, Italy
13:55-14:15	<b>Title:</b> Forest Biomass to Bioenergy: Enhancing Resistance to Wildfire, Drought, Pests, And Disease while Maintaining Forest Productivity <b>Dr. Deborah S. Page-Dumroese</b> , Research Soil Scientist, USDA Forest Service, Rocky Mountain Research Station, USA
14:15-14:35	<b>Title:</b> Potential to Use Biochar as a Substrate Amendment for Growing Native Plants for Restoration <b>Dr. R. Kasten Dumroese</b> , Research Plant Physiologist, US Department of Agriculture, Forest Service, Rocky Mountain Research Station, USA
14:35-14:55	Speech Opportunity Available
14:55-15:15	<b>Title:</b> Forest Plantation Management for Bio-energy Production <b>Dr. Jeff Wright</b> , Manager and Senior Scientist, Adjunct Faculty, Biomaterials, North Carolina State University, USA
15:15-15:30	<b>Coffee Break</b>
15:30-15:50	<b>Title:</b> TBD <b>Mr. Edward Ryall</b> , Founder, Ryall Energy, France

15:50-16:10	<b>Title:</b> Bioenergy from Forests in Germany <b>Dr. Norbert Weber</b> , Professor, Technische Universitat Dresden, Germany
16:10-16:30	<b>Title:</b> Switching from Timber to Biomass Production: Long-term Ecological Consequences <b>Dr. Juan A. Blanco</b> , Research Associate, University of British Columbia, Canada
16:30-16:50	<b>Title:</b> The Prospects and Limitations for Wood Fiber Bioenergy Development in Indonesia <b>Dr. Krystof Obldzinski</b> , Scientist, Center for International Forestry Research (CIFOR), Indonesia
16:50-17:10	<b>Title:</b> A Sustainable Process Development for Biomass Conversion into Charcoal for Metallurgical Processes <b>Dr. Ion Agirre</b> , Researcher, University of Leoben, Austria

### Session 402: Biomass Feedstock: Agricultural and Food Residues, Industrial and Municipal Solid Waste

08:30-12:10, April 28, 2012 (Saturday)

#### Feedstock Genomics and Plant Biotechnology Development

#### Feedstocks from Agriculture Residues/Wastes

#### High Strength Industrial Wastes for Bioenergy

#### Food Residues or Waste as Feedstocks

#### Vegetable Oil and Animal Fat as Feedstocks

#### Feedstocks from Organic Fraction of Municipal Solid Wastes

#### Tallow & Livestock to Biofuels

#### Biofuel Resource Assessment-From Improved First Generation to New Feedstock Sources

<b>Chair:</b>	<b>Dr. Chandrashekhar P. Joshi</b> , Professor, Center for Development of Science and Technology of Renewable Bioenergy, Chonnam National University, South Korea; School of Forest Resources and Environmental Science, Michigan Technological University, USA
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:35-08:55	<b>Title:</b> Pre-treatment of Biomass to Improve Logistics and End-use <b>Mr. Robin Zwart</b> , Project Manager, Energy Research Centre of the Netherlands (ECN), The Netherlands
08:55-09:15	<b>Title:</b> Vegetable and Fruit Waste as Supplement for Improved Butanol Production <b>Dr. Shrikant Survase</b> , Research Scientist, Aalto University, Finland
09:15-09:35	<b>Title:</b> Partial Recovery of Feedstock Organics as an Integrated Part of Alkaline Pulping <b>Dr. Raimo Alén</b> , Professor, University of Jyväskylä, Finland
09:35-09:55	<b>Title:</b> Postharvest Processing and Densification of Selected Agricultural Straw as Feedstock for the Biofuel Industry <b>Dr. Greg Schoenau</b> , Professor, University of Saskatchewan, Canada
09:55-10:15	<b>Title:</b> Cell Wall Biotechnology for Improved Bioenergy Production <b>Dr. Chandrashekhar P. Joshi</b> , Professor, Center for Development of Science and Technology of Renewable Bioenergy, Chonnam National University, South Korea; School of Forest Resources and Environmental Science, Michigan Technological University, USA
10:15-10:30	<b>Coffee Break</b>



10:30-10:50	<p><b>Title:</b> Large Scale Utilization of New Feedstocks for Biofuels - Land Use Planning and Paradigm Shifts in Agricultural Growth System Approaches</p> <p><b>Dr. Jens Bo Holm-Nielsen</b>, Head, Center for Bioenergy and Green Engineering, Department of Energy Technology, Aalborg University, Denmark</p>
10:50-11:10	<p><b>Title:</b> The Potential of Agricultural Residues and Wastes for Bioenergy Feedstocks in China</p> <p><b>Dr. Minpeng Chen</b>, Associate Professor, Institute of Environment and Sustainable Development in Agriculture, Chinese Academy of Agricultural Sciences, China</p>
11:10-11:30	<p><b>Title:</b> A Local Model for Bioenergy Generation Based on the Combined Use of Forage Crops in the Extreme South of Chile (Patagonia)</p> <p><b>Dr. Christian Hepp</b>, Director/Researcher, Tamel Aike Research Centre (Western Patagonia), Institute for Agricultural Research - INIA, Chile</p>
11:30-11:50	<p><b>Title:</b> Anaerobic Digestion of Source Separated Organics</p> <p><b>Mr. Michael Cant</b>, Principal, Canadian Waste Sector Leader, Golder Associates, Canada</p>
11:50-12:10	<a href="#">Speech Opportunity Available</a>

### Track 5: Biomass Feedstock II: Dedicated Energy Crops

#### Session 500: Biomass Feedstock II: Dedicated Energy Crops (Part I)

08:30-12:10, April 26, 2012 (Thursday)

<b>Chair:</b>	<b>Dr. Wuyi Wang</b> , Scientist, Ceres, Inc., USA
<b>Co-Chair:</b>	<b>Dr. Yanqi Wu</b> , Associate Professor, Department of Plant and Soil Sciences, Oklahoma State University, USA
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<p><b>Title:</b> Transcriptional Regulation of Seasonally Accumulated Biomass in Woody Perennials</p> <p><b>Dr. Kyung-Hwan Han</b>, Professor, Michigan State University, USA</p>
09:00-09:25	<p><b>Title:</b> Identification of Differential Expressed Messages Associated to Flowering Transition at Sugarcane Shoot Apical Meristem Using Subtractive Cdna Libraries and Proteomics</p> <p><b>Dr. Katia C. Scortecci</b>, Professor, Universidade Federal do Rio Grande do Norte, Brazil</p>
09:25-09:50	<p><b>Title:</b> Use of Ethanol Waste Products as Nutrient Sources for Established Biofuel Crops</p> <p><b>Dr. Kelly T. Morgan</b>, Associate Professor, University of Florida, USA</p>
09:50-10:15	<p><b>Title:</b> Advanced Energy Crops</p> <p><b>Dr. Wuyi Wang</b>, Scientist, Ceres, Inc., USA</p>
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<p><b>Title:</b> Switchgrass Genomics and Genetic Improvement for the Emerging Bioenergy Industry in the United States</p> <p><b>Dr. Yanqi Wu</b>, Associate Professor, Department of Plant and Soil Sciences, Oklahoma State University, USA</p>
10:55-11:20	<p><b>Title:</b> TBD</p> <p><b>Dr. Ir Jan Vos</b>, Acting Chair Crop and Weed Ecology, Wageningen University, The Netherlands</p>

11:20-11:45	<a href="#">Speech Opportunity Available</a>
11:45-12:10	<b>Panel Discussion</b>

### Session 501: Biomass Feedstock II: Dedicated Energy Crops (Part II)

13:30-17:35, April 27, 2012 (Friday)

**Jatropha Focus**

**Camelina and Croton Trees Focus**

**Miscanthus (Miscanthus giganteus) Focus**

**Poplar trees Focus**

**Focus on Salicornia (Salicornia Bigelovii, Dwarf saltwort, Dwarf glasswort)**

**Perennial Energy Crops**

<b>Chair:</b>	<b>Dr. Gary W. Hergert</b> , Professor, Agronomy-Horticulture, University of Nebraska-Lincoln, USA
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
13:30-13:35	<b>Chair's Introduction</b>
13:35-14:00	<b>Title:</b> Giant King Grass: A High Yield Tropical and Subtropical Dedicated Energy Crop <b>Dr. Carl Kukkonen</b> , CEO, VIASPACE Inc., USA
14:00-14:25	<b>Title:</b> The Ecology and Agronomy of Miscanthus in Japan - Lessons Learned for Its Use as a Bioenergy Crop <b>Dr. J. Ryan Stewart</b> , Associate Professor, Brigham Young University, USA
14:25-14:50	<b>Title:</b> Agronomic and Biochemical Study of Jatropha curcas L. in México <b>Dr. Alfredo Zamarripa Colmenero</b> , Leader in Bioenergy Research Program, Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias, SAGARPA, México
14:50-15:15	<b>Title:</b> Spring Canola and Camelina Yield and Water Use under Dryland to Full Irrigation in a Semi-arid Climate <b>Dr. Gary W. Hergert</b> , Professor, Agronomy-Horticulture, University of Nebraska-Lincoln, USA
15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<b>Title:</b> Jatropha Platform Colombia <b>Dr. Luis Fernando Campuzano Duque</b> , Agroenergy Colombia National Program Coordinator, Corpoica, Colombia
15:55-16:20	<b>Title:</b> Jatropha Curcas, An Alternative Feedstock to Meet the European Directive on Sustainability for Bio-diesel and Power Generation <b>Mr. Federico Maria Grati</b> , Managing Director, Smart Oil Ltd., Ghana
16:20-16:45	<b>Title:</b> R&D in Perennial Energy Crops at the Brazilian Agricultural Research Corporation - Embrapa <b>Dr. Manoel Teixeira Souza Júnior</b> , General Director, Embrapa Agroenergy, Brazil
16:45-17:10	<a href="#">Speech Opportunity Available</a>

### Track 6: Bioalcohols

**Session 600: Lignocellulosic Biomass Pretreatment Approaches**

13:30-17:10, April 26, 2012 (Thursday)

<b>Chair:</b>	<b>Dr. Kasiviswanathan Muthukumarappan</b> , Professor, South Dakota State University, USA
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
13:30-13:35	<b>Chair' s Introduction</b>
13:35-14:00	<a href="#">Speech Opportunity Available</a>
14:00-14:25	<b>Title:</b> Novel Pretreatment Approaches for Effective Bioethanol Production <b>Dr. Kasiviswanathan Muthukumarappan</b> , Professor, South Dakota State University, USA
14:25-14:50	<b>Title:</b> Different Scale Pretreatment System in Terms of Diluted-Acid Hydrolysis for Rice Straw <b>Dr. Wen-hua Chen</b> , Associate Engineer, Institute of Nuclear Energy Research, Taiwan
14:50-15:15	<b>Title:</b> Determination of the Residues Responsible for the Rate Limiting Step of Crystalline Cellulose Hydrolysis by Exocellulase Cel48A from Thermobifida Fusca <b>Dr. David Wilson</b> , Professor, Cornell University, USA
15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<b>Title:</b> TBD <b>Dr.Anders Funch Jensen</b> , Director, Customer Solutions, BioGasol ApS, Denmark
15:55-16:20	<b>Title:</b> TBD <b>Dr. Umi Kalsom Md Shah</b> , Associate Professor, Universiti Putra Malaysia, Malaysia
16:20-16:45	<b>Title:</b> Chemical and Physicochemical Pretreatment of Lignocellulosic Materials <b>Dr. Abeer M. Adel</b> , Assistant Professor, National Research Center, Egypt
16:45-17:10	<b>Panel Discussion</b>

**Session 601: Highly Efficient Enzymes for Bioethanol Production**

13:30-17:10, April 27, 2012 (Friday)

<b>Chair:</b>	<b>Ms. Deborah E. Dodge</b> , Senior Manager, Product Marketing, Genencor, DuPont Industrial Biosciences, USA
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
13:30-13:35	<b>Chair' s Introduction</b>
13:35-14:00	<b>Title:</b> TBD <b>Dr.Mian LI</b> , Senior Applications Scientist, Genencor, DuPont Industrial Biosciences, USA
14:00-14:25	<a href="#">Speech Opportunity Available</a>
14:25-14:50	<b>Title:</b> How New Enzymes Change the Ways of Bioethanol Production <b>Dr.Gang Duan</b> , Director, Application and Technical Services, Asia Pacific, Genencor(China) Bioproduct, Dupont Industrial Biosciences, China
14:50-15:15	<b>Title:</b> Commercialization of the Cellulosic Biofuels Industry: Advances in Biomass Enzyme Technology and Partnerships for Success <b>Ms. Deborah E. Dodge</b> , Senior Manager, Product Marketing, Genencor, DuPont Industrial Biosciences, USA
15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<a href="#">Speech Opportunity Available</a>
15:55-16:20	<b>Title:</b> Heat Stable Enzymes Based Technology on the Production of Bioethanol from Agricultural Wastes <b>Dr.George Kvesitadze</b> , Professor, Durmishidze Institute of Biochemistry, Germany
16:20-16:45	<b>Title:</b> A Strategy How to Reduce the Enzyme Cost for Saccharification of Cellulosic Biomass <b>Dr.Masahiro Samejima</b> , Professor, The University of Tokyo, Japan
16:45-17:10	<b>Panel Discussion</b>

**Session 602: New Technology for Ethanol Production from Lignocellulosic Processes**

08:30-12:10, April 28, 2012 (Saturday)

**Robust Chemical vs Ethanogenic Bacteria Approaches  
Lignocellulosic Processes for Ethanol Production  
Metal Catalysis of Syngas  
Syngas Generation  
Syngas Fermentation Metabolic Pathway and Regulation  
Innovations beyond 2nd Generation of Bioalcohols  
Clean Technology for Bioalcohol Production**

<b>Chair:</b>	<b>Mr. Markus Lehr</b> , Deputy Managing Director, VOGELBUSCH Biocommodities GmbH, Austria (To Be Confirmed Soon)
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair' s Introduction</b>
08:35-09:00	<a href="#">Speech Opportunity Available</a>
09:00-09:25	<b>Title:</b> New Membrane Technologies for the Production and Utilization of Bioalcohols <b>Dr. Keiji Sakaki</b> , Group Leader, National Institute of Advanced Industrial Science and Technology (AIST), Japan
09:25-09:50	<b>Title:</b> The Energetic Analysis of Ethanol Systems Production from the Cassava, The Sugar Cane and the Corn Crops <b>Dr. Diones Assisi Salla</b> , Professor of Agroecology, Federal Institute of Education, Science and Technology - IFAC, Brazil
09:50-10:15	<b>Title:</b> Special Downstream Solutions - A Key Part in Making Second Generation Ethanol Commercial <b>Mr. Markus Lehr</b> , Deputy Managing Director, VOGELBUSCH Biocommodities GmbH, Austria
10:15-10:30	<b>Coffee Break</b>

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### Track 7: Biodiesel

**High Yield Feedstock Supply from Nonedible to Edible Oils  
New Technologies for Biodiesel Processing toward Final Products  
Large Scale Cost-effective Biodiesel Production, Refining & Quality Control  
Biodiesels from Animal Fat, Vegetable Oil  
Biodiesel from Jatropha  
Biodiesel Derived from Future Lines  
Evaluation of Diversified Biodiesel Physical Properties  
Applications of Biodiesels-Case Studies**

### Session 700: Biodiesel

13:30-17:10, April 26, 2012 (Thursday)

<b>Chair:</b>	<b>Ms. Cecily Barnes</b> , Biofuel Manager, Hawaiian Electric Company, USA
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
13:30-13:35	<b>Chair' s Introduction</b>
13:35-14:00	<b>Title:</b> Biodiesel Reforming for Fuel Cell Applications <b>Dr. James J. Spivey</b> , Professor, Louisiana State University, USA
14:00-14:25	<b>Title:</b> The Study of Applying the Heterogeneous Catalysts on Oil Transesterification for Biodiesel <b>Dr. Yo-ping Greg Wu</b> , Professor, National Ilan University, Taiwan
14:25-14:50	<b>Title:</b> Quality Biodiesel Testing and Its Impact on the Marketing of Biodiesel <b>Dr. Angela Leach</b> , Technical Director, AL-Bioservices, UK
14:50-15:15	<b>Title:</b> Use of Policy to Create a Regional Biofuel Industry

	<b>Ms. Cecily Barnes</b> , Biofuel Manager, Hawaiian Electric Company, USA
15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<b>Title:</b> Development of an Economic and Efficient Biodiesel Production Process <b>Dr. Cornelia Tirla</b> , Assistant Professor, University of North Carolina at Pembroke, USA
15:55-16:20	<b>Title:</b> Alternative Biodiesel Production: Heterotropic Microbial vs Autotropic Algal Biolipids <b>Dr. Ho Nam Chang</b> , Professor, KAIST, South Korea
16:20-16:45	<a href="#">Speech Opportunity Available</a>
16:45-17:10	<b>Panel Discussion</b>

## Track 8: Algae to Biofuel

**Algae Biology and Productive Algae and Seaweed Biomass**  
**Biotechnology in Improving the Algae Yield and GMO Risks**  
**Algaculture, Algae Cultivation System and Methods, Optimization**  
**Algae Fuel Bioprocessing and Biofuel Production**  
**Algae Harvesting and Algal Oil Extraction Systems**  
**Microalgal Bioalcohol Production**  
**Algal-Biodiesel and Biogas Production**  
**Algae Biofuels Production Cost Reduction Strategies**  
**Life Cycle Analysis of different Algae-to-Energy Systems**  
**Technical & Economic Feasibility of Wastewater Based Algae Biofuel Production**  
**Power Plant using Algae for Carbon Mitigation**  
**Enhancements to Photobioreactor & Open Raceway**  
**Genetic Engineering of Microalgae to Increase Yield and Productivity**  
**Algal Biofuels Cost, Finance, Regulatory and Algae Biofuels Promotion**  
**Algae for Environmental Mitigation, Government Regulatory Support and Incentive**  
**Algae Biofuels Supply, Facility Products Supply Chain and Commercialization**

### Session 800: Algae to Biofuel (Part I)

13:30-17:10, April 26, 2012 (Thursday)

<b>Chair:</b>	<b>Dr. Shuguang Deng</b> , Professor, New Mexico State University, USA
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
13:30-13:35	<b>Chair's Introduction</b>
13:35-14:00	<b>Title:</b> Bioenergy from Photosynthetic Microorganisms: Logistics-Driven Research Priorities <b>Dr. Vimal Chaitanya</b> , Vice President for Research, New Mexico State University, USA
14:00-14:25	<b>Title:</b> Maximizing Hydrogen and Energy Yields by Dark Fermentation <b>Dr. Nirmala Khandan</b> , Professor, Department of Civil Engineering, New Mexico State University, USA
14:25-14:50	<b>Title:</b> TBD <b>Dr. Peter van den Dorpel</b> , CEO, AlgaeLink, The Netherlands
14:50-15:15	<b>Title:</b> Conversion of Algae to Biofuels under Supercritical Ethanol Conditions <b>Dr. Shuguang Deng</b> , Professor, Chemical Engineering Department, New Mexico State University, USA

15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<b>Title:</b> The Biogas Potential of the Marine Microalga Nannochloropsis Salina in Anaerobic Digestion <b>Dr. Sebastian Schwede</b> , Biologist, Ruhr-Universität Bochum, Germany
15:55-16:20	<b>Title:</b> Algae to Fuel: New Insights into Converting Lipids, Carbohydrates, And Proteins into Usable Products <b>Dr. Jamie Hestekin</b> , Associate Professor, University of Arkansas, USA
16:20-16:45	<b>Title:</b> Effects of Influent Nitrate Concentration on Biofuel Production Potential of Thermosynechococcus CL-1 <b>Dr. Hsin Chu</b> , Distinguished Professor, National Cheng Kung University, Taiwan
16:45-17:10	<b>Title:</b> Acid Hydrolysis Technique and Yeast Adaptation to Increase Macroalgae Bioethanol Production <b>Dr. Dwi Setyaningsih</b> , Agroindustrial Process Technologist, Surfactant and Bioenergy Research Center (SBRC), Bogor Agricultural University, Indonesia

### Session 801: Algae to Biofuel (Part II)

08:30-12:10, April 28, 2012 (Saturday)

<b>Chair:</b>	<a href="#">Call for Chair</a>
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Algae - Ancient Energy Source in the Modern World <b>Dr. Karl Deininger</b> , Owner, ABC Anlagenbau Consulting GmbHCoKG, Austria
09:00-09:25	<a href="#">Speech Opportunity Available</a>
09:25-09:50	<b>Title:</b> Achieving a Commercial Technology Platform for Scaled Algae Production <b>Dr. Nick Donowitz</b> , Director of Corporate and Business Development, Heliae Development, LLC., USA
09:50-10:15	<b>Title:</b> TBD <b>Dr. Martin Mohr</b> , Founder, Managing Director, Ecoduna, Austria
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> The Challenges for Commercialization and Lessons learnt <b>Dr. Surajet Khanna</b> , CEO, BARD Holding, Inc., USA
10:55-11:20	<b>Title:</b> Microalgal Mass Culture for Biodiesel: An Overview <b>Dr. Tania Mazzuca Sobczuk</b> , Associated Professor, Universidad de Almería, Spain
11:20-11:45	<b>Title:</b> Catalytic Decarboxylation for Hydrocarbon Fules Production from Microalgae <b>Dr. Li Li</b> , Research Associate, Durham University, UK
11:45-12:10	<b>Title:</b> Modeling of Seaweed Ethanol Production in Western Canada <b>Mr. Aaron Philippsen</b> , MASc Candidate, University of Victoria, Canada

### Track 9: Biogases

**Session 900: Innovative and Productive Biogas Technology**

13:30-17:10, April 26, 2012 (Thursday)

<b>Chair:</b>	<a href="#">Call for Chair</a>
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
13:30-13:35	<b>Chair's Introduction</b>
13:35-14:00	<b>Title:</b> Making Renewable Natural Gas from Municipal Waste: The California Challenge <b>Mr. Paul Rells</b> , Senior Vice President, CR&R Incorporated, USA
14:00-14:25	<b>Title:</b> Biomass Gasification Technology for the Production of Biomethane <b>Dr. Christiaan van der Meijden</b> , Project Leader, Energy Research Centre of the Netherlands, The Netherlands
14:25-14:50	<b>Title:</b> Influence of Feeding Interruption on the Anaerobic Digestion Process <b>Dr. Alexandra Kowalczyk</b> , Mechanical Engineer, Ruhr Universitat Bochum, Germany
14:50-15:15	<b>Title:</b> Biogas and Management of Nitrogen and Nutrients: New Solutions from Lombardy (IT) <b>Dr. Fabrizio Adani</b> , Professor, Università degli Studi di Milano, Italy
15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<b>Title:</b> TBD <b>Mr. Roel Slotman</b> , International Sales Director, EnviTec Biogas AG, Germany
15:55-16:20	<b>Title:</b> Biological Pretreatment of Lignocellulosic Materials with Fungi to Enhance Biogas Production <b>Dr. Xinmel Feng</b> , Researcher, JTI - Swedish Institute of Agricultural and Environmental Engineering, Sweden
16:20-16:45	<b>Title:</b> Are Biogas Plants Appropriate Solutions in Prisons? The ICRC's Experiences in Nepal, Rwanda and Philippines <b>Mr. Alain Oppliger</b> , Adviser, Environment and Sustainable Development, International Committee of the Red Cross, Switzerland
16:45-17:10	<a href="#">Speech Opportunity Available</a>

**Session 901: Biogas from Agriculture Residues and Wastes**

08:30-12:10, April 28, 2012 (Saturday)

<b>Chair:</b>	<b>Dr. Bernhard Raninger</b> , Director, Sino-German Biomass Utilization Project, GIZ China; Professor, China Agriculture University, China
<b>Co-Chair:</b>	<b>Dr. Vinod Kumar Sharma</b> , Senior Scientist, ENEA Research Centre Trisaia, Technical Unit for Technologies, Italy
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Biogas From Organic Waste From Cities <b>Mr. Torsten Fischer</b> , CEO, Krieg & Fischer Ingenieure GmbH, Germany
09:00-09:25	<b>Title:</b> Case Study of Bio-digester Designs for Animal Manure and Agricultural Bio-mass Residues—Corn

	<p>Stover with Improved Production of Bio-Gas and Electricity  <b>Mr. Robert Hoffland</b>, President, Hoffland Environmental Inc., USA</p>
09:25-09:50	<p><b>Title:</b> Biogas from Agro-waste in Brazil: Potential for Energy and Fertilizer  <b>Dr. Ernesto Moeri</b>, CEO, ECOGEO, Brazil</p>
09:50-10:15	<p><b>Title:</b> Potential and Use of Biomass in Middle and Large Scale Biogas Plants and Its Impact on Greenhouse Gas Emission Reduction in China  <b>Dr. Bernhard Raninger</b>, Director, Sino-German Biomass Utilization Project, GIZ China; Professor, China Agriculture University, China</p>
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<p><b>Title:</b> Production of Biomethane Using Biomass and Agroresidues in an Inclined Plug-flow Type Anaerobic Digester  <b>Dr. Vinod Kumar Sharma</b>, Senior Scientist, ENEA Research Centre Trisaia, Technical Unit for Technologies, Italy</p>
10:55-11:20	<p><b>Title:</b> Biogas Plants May Provide GHG Reduction, - At Negative Costs  <b>Dr. Lars Henrik Nielsen</b>, Senior Scientist, Riso DTU, Riso National Laboratory for Sustainable Energy, Denmark</p>
11:20-11:45	<p><b>Title:</b> Biogas from Agriculture Residues &amp; Wastes  <b>Mr. Kolluru Krishan</b>, Chairman, Envitec Biogas (India) Pvt. Ltd., India</p>
11:45-12:10	<a href="#">Speech Opportunity Available</a>

## Session 902: Flammable Ice or Gas Hydrate, Biomethane and Biohydrogen

08:30-12:10, April 28, 2012 (Saturday)

<b>Chair:</b>	<b>Dr Carsten Herbes</b> , Head of Research and Development, Nawaro Bioenergie AG, Germany
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<p><b>Title:</b> The Emerging Biomethane Market in Europe – Structures, Players and Strategies  <b>Dr. Carsten Herbes</b>, Head of Research and Development, Nawaro Bioenergie AG, Germany</p>
09:00-09:25	<p><b>Title:</b> Biomethane – Challenge in Fuel and Energy  <b>Dr. Helmut Kern</b>, Managing Partner, Arcanum Energy Systems GmbH Co., Germany</p>
09:25-09:50	<p><b>Title:</b> Mining Methane in Area of Gas Hydrate on Okhotsk Sea  <b>Dr. Anatoly Obzhirov</b>, Professor, V.I.Ilichev Pacific Oceanological Institute, RAS. Vladivostok, Russia</p>
09:50-10:15	<p><b>Title:</b> Methane Hydrate Resources in Western Pacific: Optimistic Estimates and in Situ Evidences  <b>Dr. Renat Shakirov</b>, Senior Researcher, POI FEB RAS, Russia</p>
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<p><b>Title:</b> Thermophiles: Option for Stable Production of Hydrogen  <b>Ms. Adriana Ferreira Maluf Braga</b>, Environmental Engineer, University of Sao Paulo, Brazil</p>



10:55-11:20	<p><b>Title:</b> Evaluation of Biological Hydrogen Production with Different Support Materials for Cell Immobilization in Structured-bed Reactor</p> <p><b>Ms. Méilda del Pilar Anzola Rojas</b>, Environmental Engineer, University of Sao Paulo, Brazil</p>
11:20-11:45	<p><b>Title:</b> Electrochemical Methods for Cleancing of H<sub>2</sub>S and SO<sub>2</sub> in Industrial and Natural Contaminated Waters</p> <p><b>Dr. Konstantin M. Petrov</b>, Professor, Institute of Electrochemistry and Energy Systems of Bulgarian Academy of Sciences, Bulgaria</p>
11:45-12:10	<p><a href="#">Speech Opportunity Available</a></p>

## Track 10: Biofuel & Electricity Generation

### Biofuel Electricity Generation Technology and Power Plant

### Biofuel Cell Development, Applications, and Evaluation

### Industrial Heat & Power Using Biofuels

#### Session 1000: Biofuel & Electricity Generation

13:30-17:10, April 26, 2012 (Thursday)

<b>Chair:</b>	<b>Dr. Petri Kouvo</b> , Associate Professor & Director, Lappeenranta University of Technology, Helsinki Region Environmental Services Authority, Finland
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
13:30-13:35	<b>Chair's Introduction</b>
13:35-14:00	<p><b>Title:</b> Comminution of Biomass Materials for Biofuels</p> <p><b>Dr. Peilin Yang</b>, Design Engineer, Vermeer Corporation, USA</p>
14:00-14:25	<p><b>Title:</b> Possibilities and Obstacles for Enabling Efficient Small Scale Heat Production Systems Based on Bio Energy in Cold Climate Rural Settlements</p> <p><b>Dr. Bjorn R. Sorensen</b>, Professor, Narvik University College, Norway</p>
14:25-14:50	<p><b>Title:</b> Total Integration of Renewable and Fossil Energy Aiming to a Clean and Sustainable Energy System</p> <p><b>Dr. Rosa Ana Conte</b>, Assistant Professor, Escola de Engenharia de Lorena, University of São Paulo, Brazil</p>
14:50-15:15	<p><b>Title:</b> Landfill Gas to Energy-combined Engine and ORC-process</p> <p><b>Dr. Petri Kouvo</b>, Associate Professor &amp; Director, Lappeenranta University of Technology, Helsinki Region Environmental Services Authority, Finland</p>
15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<p><b>Title:</b> Woody Biomass CHP at Community Scale</p> <p><b>Mr. Thomas Deerfield</b>, Biomass Energy Specialist, Consultant, Higher Ground Energy Solutions, Inc., USA</p>
15:55-16:20	<p><b>Title:</b> Forbes Energy: Zero-Impact Ethanol Production - The Closed Loop System - Benefits to China &amp; the World</p> <p><b>Mr. Lucien E. Forbes</b>, Chairman and CEO, Forbes Group, USA</p>
16:20-16:45	<b>Title:</b> Potential of Biodiesel for Gas Turbine Applications

	<b>Dr. Cheng Tung Chong</b> , Lecturer, Universiti Teknologi Malaysia, Malaysia
16:45-17:10	<a href="#">Speech Opportunity Available</a>

## Track 11: Biofuel Based Automotives

**Ethanol and Methanol as Fuels in Internal Combustion Engines**

**Biodiesel Based Automotives**

**Integration and Hybrid Methods for Vehicles Using Biofuels**

**Biogas Used as Vehicle Fuel**

<b>Session 1100: Biofuel Based Automotives</b>	
13:30-17:10, April 26, 2012 (Thursday)	
<b>Chair:</b>	<a href="#">Call for Chair</a>
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
<a href="#">Under Development...</a>	

## Track 12: Aviation Biofuels

**Aviation and the Environment Demand for Biofuels**

**Biofuel for Aircraft and Navy Fleets**

**Biofuel Conversion Technologies and Feedstock Processing for Aviation**

**Developing New Sources for Sustainable Aviation Fuels**

**Commercialization of Aviation Biofuels and Approval Policies**

<b>Session 1200: Aviation Biofuels</b>	
08:30-12:10, April 27, 2012 (Friday)	
<b>Chair:</b>	<b>Dr. William Sin-Tong Lau</b> , Technical Director, SGS-CSTC Standards Technical Services Company Limited, Hong Kong, China
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Sustainable Aviation <b>Ms. Kati Ihamaki</b> , Vice President Sustainable Development, Finnair, Finland
09:00-09:25	<b>Title:</b> Boeing and Sustainable Aviation Biofuel (SAB) Commercialization <b>Dr. Larry Kwok</b> , Director of Strategy and Business Development, The Boeing Company, China
09:25-09:50	<b>Title:</b> Farm to Fly – Innovative Approaches toward a Sustainable Aviation Biofuel Future <b>Dr. Howard D. Grimes</b> , Professor, Plant Molecular Science and Molecular Biosciences; Vice President for Research and Dean of the Graduate School, Washington State University, USA

09:50-10:15	<b>Title:</b> Valuation of Aviation Emissions <b>Dr. William Sin-Tong Lau</b> , Technical Director, SGS-CSTC Standards Technical Services Company Limited, Hong Kong, China
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<a href="#">Speech Opportunity Available</a>
10:55-11:20	<b>Title:</b> The Brazilian Biojetfuel Platform <b>Dr. Mike Lu</b> , Vice-President, Biojetfuel and Renewable Products, Brazil
11:20-11:45	<b>Title:</b> Aviation Emissions Inventory Assessment under Biofuel Introduction and Commercialization Scenarios <b>Dr. Joosung J. Lee</b> , Assistant Professor, Korea Advanced Institute of Science and Technology (KAIST), South Korea
11:45-12:10	<b>Panel Discussion</b>

### Track 13: Other Biofuels

**Biobutanol from Engineered Microbes**

**Wood Diesel**

**Hydrogenation-Derived Renewable Diesel and Designer Hydrocarbons**

**Hydrothermalupgrading Diesel and Fischer-Tropsch Biofuels**

**Bioether as Biofuels**

#### Session 1300: Other Biofuels

08:30-12:10, April 27, 2012 (Friday)

**Chair:** [Call for Chair](#)

**Co-Chair:** [Call for Co-Chair](#)

[Under Development...](#)

### Track 14: Biorefinery/Bioprocess Tech

**Cracking Approaches of Lipids for Fuels and Chemicals**

**Conversion Technologies for Non-Cellulosic Components: Lignin and Hemicelluloses-Based Biorefinery**

**Starch-Based Biorefinery**

**Proteins-Based Biorefinery**

**Animal and Plant Oils-Based Biorefinery**

**Microbial Fermentable Sugars-Based Biorefinery**

**Developing & Managing Biofuels Production Plants**

#### Session 1400: Biorefinery/Bioprocess Tech

08:30-12:10, April 27, 2012 (Friday)

**Chair:** **Dr. Lew P. Christopher**, Director and Professor, Center for Bioprocessing Research & Development and

	Department of Chemical & Biological Engineering, South Dakota School of Mines and Technology, USA
<b>Co-Chair:</b>	<b>Dr. Dhrubojyoti Dey Laskar</b> , Senior Research Associate, Biological System Engineering, Washington State University, USA
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Metathesis: A Lipids to Chemicals Solution <b>Dr. Mel Luetkens</b> , COO, Elevance Renewable Sciences, Inc., USA
09:00-09:25	<b>Title:</b> The Biolignin™ from the CIMV Process: A New Added Value Oligomer for the Chemical Industry <b>Dr. Michel Delmas</b> , Professor, University of Toulouse; CIMV Inc., France
09:25-09:50	<b>Title:</b> Chemical Energy Carriers from Thermo-chemical Conversion of Biomass <b>Dr. Nicolaus Dahmen</b> , Head of Division for Thermochemical Biomass Conversion, Karlsruhe Institute of Technology (KIT), Germany
09:50-10:15	<b>Title:</b> Bioproducts from Hemicellulose in a Forest-based Biorefinery <b>Dr. Lew P. Christopher</b> , Director and Professor, Center for Bioprocessing Research & Development and Department of Chemical & Biological Engineering, South Dakota School of Mines and Technology, USA
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Catalytic Fast Pyrolysis of Industrial Lignin Wastes for Producing Valuable Hydrocarbons <b>Dr. Yujue Wang</b> , Associate Professor, Tsinghua University, China
10:55-11:20	<b>Title:</b> Added-value Products from Bioconversion of Biorefinery by-products <b>Dr. Ernesto Hernandez</b> , Research Associate, School of Chemical Engineering and Analytical Science, The University of Manchester, UK
11:20-11:45	<b>Title:</b> Efficient Conversion of Plant-Biomass to BTX and Hydrocarbon Chemicals by Catalytic Pyrolysis <b>Dr. Wang Chang</b> , Professor, Department of Environmental Science and Engineering, Tianjin University of Science & Technology, China
11:45-12:10	<a href="#">Speech Opportunity Available</a>

## Track 15: Biofuels Standards, IP and Regulations

**Sustainability, Certification, and Biofuel Standards**  
**Biofuel IP Protection, Outsourcing and Partnership**  
**Corporation Tech Licensing, Acquisitions, IPO and Exit**  
**Global Biofuel Regulations and Incentive Plans**

### Session 1500: Biofuels Standards, IP and Regulations

08:30-12:10, April 27, 2012 (Friday)

<b>Chair:</b>	<a href="#">Call for Chair</a>
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>

08:35-09:00	<a href="#">Speech Opportunity Available</a>
09:00-09:25	<b>Title:</b> Biofuel Sustainability Standards and Market Drivers <b>Ms. Emily Kunen</b> , Program Associate, Winrock International, USA
09:25-09:50	<b>Title:</b> Challenges set by the European RES Directive on Sustainable Production of Biofuels from Energy Crops in Finland <b>Mr. Rabbe Thun</b> , Senior Research Scientist, MTT Agrifood Research Finland, Finland
09:50-10:15	<a href="#">Speech Opportunity Available</a>
10:15-10:30	<b>Coffee Break</b>
<a href="#">Under Development...</a>	

## Track 16: Biofuel Finance, Investment, Trade and Marketing

**Bioenergy Investment Sectors and Finance Trend**  
**VC and Private Equity in Renewable Bioenergy**  
**Roles of Banks and Brokers in Bioenergy**  
**Biofuels Shipping, Storage & Logistics and Quality Control**  
**Biofuel Market, Trade and Distribution**  
**Global Biodiesel Leaders Roundtable Discussion**

<b>Session 1600: Biofuel Finance, Investment, Trade and Marketing</b>	
08:30-12:10, April 27, 2012 (Friday)	
<b>Chair:</b>	<b>Mr. Jeffrey A. Blount</b> , Partner of Hong Kong and Beijing, Fulbright & Jaworski L.L.P., Hong Kong, China
<b>Co-Chair:</b>	<a href="#">Call for Co-Chair</a>
08:30-08:35	<b>Chair's Introduction</b>
08:35-09:00	<b>Title:</b> Availability of Equity Capital in the US for Biofuels and Biochemicals <b>Mr. Joe Dews</b> , Director and Head of CleanTech Banking at ThinkEquity, USA
09:00-09:25	<b>Title:</b> TBD <b>Ms. Tiffany Potter</b> , Business Development & Advisory Committee Member, San Francisco Carbon Collaborative, USA
09:25-09:50	<b>Title:</b> Finance Bioenergy Projects through Carbon <b>Mr. Wilson Weimin Tang</b> , Director, Climate Change Capital, UK
09:50-10:15	<b>Title:</b> Legal and Regulatory Matters Affecting Biofuels Marketing, Trading and Distribution Activities in China <b>Mr. Jeffrey A. Blount</b> , Partner of Hong Kong and Beijing, Fulbright & Jaworski L.L.P., Hong Kong, China
10:15-10:30	<b>Coffee Break</b>
10:30-10:55	<b>Title:</b> Locating Foreign Partners – The Tricks of International Trade <b>Mr. Ryan Hollowell</b> , International Trade Specialist, U.S. Export Assistance Center, USA

10:55-11:20	<b>Title:</b> TBD <b>Dr. Nicholas C Ashby</b> , Founder & CEO, Celadon Capital; Project Manager, Biologic Technologies, Malaysia
11:20-11:45	<b>Title:</b> TBD <b>Ms. Allison Carlson</b> , Vice President of Green Technology and Fuels, Garten Rothkopf, LLC, USA
11:45-12:10	<a href="#">Speech Opportunity Available</a>

## Session for Young Scientist

### Session for Young Scientist

13:30-17:10, April 27, 2012 (Friday)

<b>Chair</b>	<b>Dr. Chunfei Wu</b> , Research Fellow, University of Leeds, UK
<b>Co-Chair</b>	<b>Van Den Hende Sofie</b> , Ph.D. Student, Environmental Sciences, Biochemistry and Chemistry Research Group (Enbichem), University College West-Flanders; Laboratory for Microbial Ecology and Technology (LabMET), Gent University, Belgium
13:30-13:35	<b>Chair's Introduction</b>
13:35-14:00	<b>Title:</b> Advanced Thermal Technologies for Municipal Solid Waste, Biomass and Plastics Waste <b>Dr. Chunfei Wu</b> , Research Fellow, University of Leeds, UK
14:00-14:25	<b>Title:</b> Energetic Optimization of Algal Cultivation in Bubble Columns <b>Dr. Yalini Arudchelvam</b> , Research Assistant, New Mexico State University, USA
14:25-14:50	<b>Title:</b> Airlift-driven Raceway Reactor for Microalgae Cultivation <b>Dr. Balachandran Ketheesan</b> , Doctoral Student, New Mexico State University, USA
14:50-15:15	<b>Title:</b> Optimization and Modeling of Internally Illuminated Photobioreactor with <i>Scenedesmus</i> sp. <b>Dr. Ambica Koushik Pegallapati</b> , Ph. D. Candidate, New Mexico State University, USA
15:15-15:30	<b>Coffee Break</b>
15:30-15:55	<b>Title:</b> Flue Gas Compounds and Microalgae: (Bio-)chemical Interactions Leading to Biotechnological Opportunities <b>Van Den Hende Sofie</b> , Ph.D. Student, Environmental Sciences, Biochemistry and Chemistry Research Group (Enbichem), University College West-Flanders; Laboratory for Microbial Ecology and Technology (LabMET), Gent University, Belgium
15:55-16:20	<b>Title:</b> Hollow Fiber Membranes for Algae Growth <b>Lauren Woods</b> , Student, University of Arkansas, USA
16:20-16:45	<b>Title:</b> Understanding the Molecular Basis of Plant Cell Wall Structure Using High-resolution 2D NMR Spectroscopy <b>Dr. Kun Cheng</b> , Postdoctor, University of California-Berkeley, USA
16:45-17:10	<b>Title:</b> Hydrate Technology for Biogas Delivering Process <b>DI Zhang</b> , Student, New Energy Research Institute, China University of Petroleum, Beijing, China
17:10-17:35	<a href="#">Speech Opportunity Available</a>

