



AGENDA

Biomass 2008: Fueling Our Future

April 17-18, 2008
Hilton Alexandria Mark Center
Alexandria, Virginia

April 17, 2008

7:30 a.m.

Registration /Exhibit Hall Opens /Early AM Break
Plaza Ballroom Foyer

8:30 a.m. – 9:00 a.m.

Welcome – **Andy Karsner**, Assistant Secretary, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Welcome and Overview of U.S. Department of Energy Biomass Program – **Jacques Beaudry-Losique**, Program Manager, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy
Room: Plaza Ballroom B&C

9:00 a.m. – 9:45 a.m.

Panel - Biotechnology: A Key Enabling Technology for Expanding Biofuels Production

Panelists:

- **Brent Erickson**, Executive Vice President, Industrial and Environmental Section, Biotechnology Industry Organization: *Accelerating Production of Advanced Biofuels with Industrial Biotech Breakthroughs*
- **Neal Gutterson**, CEO, Mendel Biotechnology: *Ag Biotechnology Improvements for Dedicated Energy Crops*

Room: Plaza Ballroom B&C

9:45 a.m. – 10:00 a.m.

Break

10:00 a.m. – 12:00 p.m.

Roundtable Discussion: Role of Biofuels in 2017 and Beyond

Chair: **Valri Lightner**, Planning and Evaluation Lead, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Moderator: **Bob Dinneen**, President, Renewable Fuels Association

Panelists:

- **Gautam Bhandari**, Executive Director, Morgan Stanley
- **Mike Cleary, PhD**, Center Director of the National Bioenergy Center, National Renewable Energy Laboratory
- **Jeffrey Jacobs**, Vice President of Biofuels and Hydrogen, Chevron Technology Ventures
- **David Kunz**, Chief Counsel, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation
- **Elizabeth A. Lowery**, Vice President, Energy, and Safety Policy, General Motors

Room: Plaza Ballroom B&C

12:00 p.m. – 12:30 p.m.	Break with Exhibitors - Plaza Ballroom Foyer
12:30 p.m. – 1:45 p.m.	Lunch <i>Luncheon Address - David Sandalow, Senior Fellow, Brookings Institute, author: Freedom from Oil</i> Room: Plaza Ballroom B&C
1:45 – 2:00	Break with Exhibitors - Plaza Ballroom Foyer
2:00 p.m. – 4:00 p.m.	Breakout Session I (see table for detail) <u>Track 1: Global Stewardship – Proactively Addressing Environmental Sustainability: Water</u> – <i>A systems approach to addressing the sustainability of biofuels, with a focus on water.</i> Room: Beech <u>Track 2: Infrastructure - Bringing Biofuels to Market: Opportunities and Challenges Ahead</u> – <i>Is the nation prepared to deliver 36 billion gallons of renewable fuels to market by 2022? Panelists will offer their perspectives on what types of investments and changes in the market will be needed to make it happen.</i> Room: Terrace <u>Track 3: Financing Track - Unlocking the Future</u> – <i>The near- and long-term outlook for financing of biofuels development, potential pitfalls, and how to stimulate continued development of the industry.</i> Room: Aspen <u>Track 4: Policy - Enabling the Path Forward</u> – <i>Discussion of successful policy and needs focused on activities on Capitol Hill</i> Room: Juniper <u>Track 5: Biorefinery - Biochemistry and the New Frontier of Biorefining</u> – <i>Presentations and thoughts on cutting edge R&D and technical needs for deploying tomorrow's biorefineries.</i> Room: Arbors
4:00 p.m. – 5:30 p.m.	Reception w/ Exhibitors - Plaza Ballroom Foyer

April 18, 2008

7:30 a.m.

Exhibit Hall Opens - Plaza Ballroom Foyer

7:30 a.m. – 8:30 a.m.

Networking Session

Expand your perspective on critical issues affecting the future of biofuels by engaging in focused discussions with individuals from the private sector, trade associations, government, non-profits, and the finance community.

Room: Plaza Ballroom B&C

8:30 a.m. – 8:50 a.m.

U.S. Department of Agriculture Biofuels Program Activities –

Bill Hagy, Deputy Administrator, Business Programs, Rural Development, U.S. Department of Agriculture

Room: Plaza Ballroom B&C

8:50 a.m. - 9:00 a.m.

Remarks and Introduction – **Lisa Epifani**, Assistant Secretary, Congressional and Intergovernmental Affairs, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Room: Plaza Ballroom B&C

9:00 a.m. - 9:30 a.m.

Recent Energy Legislation and Outlook for Renewable Fuels in the U.S. – **Senator Byron L. Dorgan (D-ND)**, United States Senate

Room: Plaza Ballroom B&C

9:30 a.m. - 9:45 a.m.

Break with Exhibitors - Plaza Ballroom Foyer

9:45 a.m. – 11:45 a.m.

Breakout Session II (see table for detail)

Track 1: Global Stewardship - Proactively Addressing

Environmental Sustainability: Energy and Climate – *A systems approach to addressing the sustainability of biofuels with a focus on energy and climate.*

Room: Beech

Track 2: Infrastructure - Fueling Up on Biofuels: At the Pump and In Your Engine – *Is there a market for 36 billion gallons of renewable fuels? Who's going to use it, in what form, and where? Panelists will outline the technical, market, and regulatory hurdles we need to overcome to get the fuel into use.*

Room: Terrace

Track 3: Financing - Unlocking the Future – *The near- and long-term outlook for financing of biofuels development, potential pitfalls, and how to stimulate continued development of the industry.*

Room: Aspen

Track 4: Policy - Enabling the Path Forward – *Discussion of successful policy and needs for future policy direction, at the federal, state, and international level.*

Room: Juniper

Track 5: Biorefinery- Thermochemistry and the New Frontier of Biorefining - *Presentations and thoughts on cutting edge R&D and technical needs for deploying tomorrow's biorefineries.*
Room: Arbors

11:45 p.m. – 1:00 p.m.

Lunch

Luncheon Address – **John Mizroch**, Principal Deputy Assistant Secretary, Energy Efficiency and Renewable Energy, U.S. Department of Energy – Update on DOE's International Activities in Biofuels

Room: Plaza Ballroom B&C

1:00 p.m. – 1:30 p.m.

Break with Exhibitors - Plaza Ballroom Foyer

1:30 p.m. – 1:45 p.m.

Keynote Address - Secretary of Energy Samuel Bodman
Room: Plaza Ballroom B&C

1:45 p.m. – 3:15 p.m.

Plenary Session: Development and Commercialization - *Putting the pieces together on market, technical, and policy requirements to achieve volumetric targets for biofuels.*

Chair: Jim Spaeth, Manager, Biomass Branch, Office of Commercialization & Project Management, U.S. Department of Energy, Golden Field Office

Moderator: Steve Chalk, Deputy Assistant Secretary, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Panelists:

- **Don Endres**, Chairman and CEO, VeraSun Energy: *Corn Ethanol: Yielding New Growth*
- **Stephen Gatto**, Chairman and CEO, BioEnergy International: *From Vision to Action*
- **Richard Hamilton**, President and CEO, Ceres, Inc.: *Biomass: The Role of Dedicated Energy Crops*
- **Dr. Aristides Patrinos**, President, Synthetic Genomics: *Climate Change, Renewable Energy & the Promise of Biotechnology*

Room: Plaza Ballroom B&C

3:15 p.m.

Closing Remarks - Jacques Beaudry-Losique, Program Manager, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

3:30 p.m.

Adjourn

Breakout Session Schedule: April 17, 2008, 2:00 p.m. – 4:00 p.m.

Track 1: Global Stewardship – Proactively Addressing Environmental Sustainability: Water – *A systems approach to addressing the sustainability of biofuels, with a focus on water.*

Room: Beech

Chair: Alison Goss Eng, Lead for Sustainable Bioenergy Production, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Moderator: Suzanne Hunt, Bioenergy Expert, Independent Consultant

Panelists:

- **Virginia Dale**, Group Leader, Landscape Ecology & Regional Analysis Group, Environmental Sciences Division, Oak Ridge National Laboratory: *Designing Proactive Bioenergy Choices in a Landscape Context*
- **Darrin Ihnen**, National Corn Growers Association, National Corn Board: *Meeting Increased Demand for Corn through Sustainable Production Practices*
- **Mike Edgerton**, Corn Ethanol and Quality Traits Technical Lead, Monsanto: *Breeding and Biotechnology Increase the Productivity and Efficiency of Maize*
- **May Wu**, Environmental Scientist, Center for Transportation Research, Argonne National Laboratory: *Consumptive Water Requirement in Ethanol and Petroleum Gasoline and Diesel Production*

Track 2: Infrastructure - Bringing Biofuels to Market: Opportunities and Challenges Ahead - *Is the nation prepared to deliver 36 billion gallons of renewable fuels to market by 2022? Panelists will offer their perspectives on what types of investments and changes in the market will be needed to make it happen.*

Room: Terrace

Chair: Joan Glickman, Lead for Infrastructure and Outreach, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Moderator: Shirley Neff, President and Chief Executive Officer, Association of Oil Pipe Lines

Panelists:

- **Marina Denicoff**, Economist, Transportation Services Branch, U.S. Department of Agriculture: *Overview of Ethanol Distribution Challenges and Opportunities*
- **John Schmitter**, President, KEP LLC: *Rail Transportation of Ethanol – Will There Be Enough Capacity?*
- **Michael Mears**, Senior Vice President, Transportation and Terminals, Magellan Midstream Partners L.P.: *Transportation and Distribution of Ethanol and Biodiesel*
- **Daniel Moenter**, Manager, State Government Affairs, Marathon Petroleum Company LLC: *Challenges to Ethanol Blending in the Southeast*

Track 3: Financing Track - Unlocking the Future - *The near- and long-term outlook for financing of biofuels development, potential pitfalls, and how to stimulate continued development of the industry.*

Room: Aspen

Chair: James Spaeth, Director, Office of Commercialization & Project Management, U.S. Department of Energy, Golden Field Office

Panelists:

- **John Herrick**, Chief Counsel, U.S. Department of Energy Golden Field Office: *Perspectives on Federal Assistance, Loan Guarantees and other Governmental Assistance*
- **Geoffrey Morgan**, Partner, Michael Best and Friedrich LLP: *Legal Challenges of Deal Structuring*
- **Mike Sabol**, Controller, Range Fuels: *Technology Developer Challenges of Financing First Plants*
- **Will Coleman**, Partner, Mohr Davidow Ventures: *Venture Capital Perspective*

Track 4: Policy - Enabling the Path Forward - *Discussion of successful policy and needs focused on activities on Capitol Hill*

Room: Juniper

Chair: Zia Haq, Senior Analyst, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Moderator: Jetta Wong, Senior Policy Associate, Environmental and Energy Study Institute

Panelists:

- **Audrey Lee**, Economist, Office of Policy and International Affairs, U.S. Department of Energy: *World Biofuels Study*
- **Tara Billingsley**, Professional Staff, U.S. Senate Committee on Energy and Natural Resources
- **Kathryn Clay**, Professional Staff, U.S. Senate Committee on Energy and Natural Resources

Track 5: Biorefinery - Biochemistry and the New Frontier of Biorefining - *Presentations and thoughts on cutting edge R&D and technical needs for deploying tomorrow's biorefineries.*

Room: Arbors

Chair: Fred Gerdeman, Project Manager, U.S. Department of Energy, Golden Field Office

Moderator: John Holladay, Chemical and Biological Processes Development Scientist, Biomass Program, U.S. Department of Energy/PNNL: *Bio- and Thermochemistry and the New Frontiers of Biorefining*

Panelists:

- **Hans-Peter Blaschek**, Professor and Director of the Center for Advanced BioEnergy Research, University of Illinois, Urbana: *Bio-Butanol from Lignocellulose*
- **Jack Huttner**, Vice President Biorefinery Business Development, Genencor® A Danisco Division
- **Greg Krissek**, Director, Government Affairs, ICM, Inc.: *Cellulosic Biorefining - Building the Bridge to Cellulosic Ethanol*
- **Michael Rushton**, Chief Operating Office, Lignol Innovations: *Technical Challenges for the Biorefining Sector*
- **Charles Wyman**, Ford Motor Company Chair in Environmental Engineering, Center for Environmental Research and Technology (CE-CERT) and Chemical and Environmental Engineering Department, University of California- Riverside, and Adjunct Professor of Engineering at Dartmouth College: *Technical and Financial Needs to Promote Emergence of a Cellulosic Ethanol Industry*

Breakout Session Schedule: April 18, 2008, 9:45 a.m. – 11:45 a.m.

Track 1: Global Stewardship - Proactively Addressing Environmental Sustainability: Energy and Climate – *A systems approach to addressing the sustainability of biofuels with a focus on energy and climate.*

Room: Beech

Chair: Alison Goss Eng, Lead for Sustainable Bioenergy Production, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Moderator: Suzanne Hunt, Bioenergy Expert, Independent Consultant

Panelists:

- **Liz Marshall**, Head of Biofuels Production and Policy Project, World Resources Institute: *Land-use Impacts and Carbon Accounting in Biofuel Production*
- **Ernest Shea**, Project Coordinator, 25x25: *25x25 Action Plan: Charting America's Energy Future*
- **Michael Wang**, Manager, Systems Assessment Section, Center for Transportation Research, Argonne National Laboratory: *Well-to-Wheels Energy and Greenhouse Gas Emission Results and Issues of Fuel Ethanol*
- **Rich Pouyat**, Ecological Society of America/Team Lead and Research Forester, USDA Forest Service: *The Ecological Dimensions of Biofuels: A Summary of Ecological Society of America's Conference and Workshop*

Track 2: Infrastructure - Fueling Up on Biofuels: At the Pump and In Your Engine – *Is there a market for 36 billion gallons of renewable fuels? Who's going to use it, in what form, and where? Panelists will outline the technical, market, and regulatory hurdles we need to overcome to get the fuel into use.*

Room: Terrace

Chair: Joan Glickman, Lead for Infrastructure and Outreach, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Moderator: Frederick L. Potter, Executive Vice President, Hart Energy Consulting

Panelists:

- **Claire Kammer**, Manager, Government Affairs, Underwriters Laboratories and **Dennis Smith**, Technology Deployment Manager, Office of Vehicle Technologies, U.S. Department of Energy
- **Kevin Stork**, Team Leader for Fuels Technologies & Technology Deployment, Office of Vehicle Technologies, U.S. Department of Energy: *Intermediate Ethanol Blends*
- **John McKnight**, Director, Environmental and Safety Compliance, National Marine Manufacturers Association: *Recreational Boats – Operating with Ethanol-Extended Fuels*
- **John Eichberger**, Vice President, Government Relations, National Association of Convenience Stores: *How Can Retailers Sell 36 Billion Gallons?*

Track 3: Financing - Unlocking the Future – *The near- and long-term outlook for financing of biofuels development, potential pitfalls, and how to stimulate continued development of the industry.*

Room: Aspen

Chair: James Spaeth, Director, Office of Commercialization & Project Management, U.S. Department of Energy, Golden Field Office

Panelists:

- **Brian Curtis**, Entrepreneur in Residence, Qiming Ventures: *Biofuels Industry Trends Overview*
- **Michael Rushton**, Chief Operating Officer, Lignol Innovations Ltd
- **John May**, Managing Director, Stern Brothers & Co: *Lender and Investor Perspectives on Biofuels*
- **Brad Barton**, Principal, NGP Energy Technology Partners: *Venture Capital Perspective*
- **Ed Feo**, Partner, Milbank, Tweed, Hadley and McCloy, LLP: *Legal Challenges of Deal Structuring*

Track 4: Policy - Enabling the Path Forward - *Discussion of successful policy and needs for future policy direction, at the federal, state, and international level.*

Room: Juniper

Chair and Moderator: Zia Haq, Senior Analyst, Biomass Program, Energy Efficiency and Renewable Energy, U.S. Department of Energy

Panelists:

- **David Terry**, Governor's Ethanol Coalition
- **Karl Simon**, Director of the Compliance and Innovative Strategies Division, Office of Transportation and Air Quality, U.S. Environmental Protection Agency: *EPA's Renewable Fuel Standard and the Energy Independence and Security Act of 2007: The Path Forward*
- **David Woodruff**, Senior Director for Government Relations, Archer Daniels Midland
- **Amy Ehlers**, Policy Manager, Biotechnology Industry Organization (BIO): *Industrial Biotechnology: Securing a Sustainable Energy Future*

Track 5: Biorefinery- Thermochemistry and the New Frontier of Biorefining - *Presentations and thoughts on cutting edge R&D and technical needs for deploying tomorrow's biorefineries.*

Room: Arbors

Chair: Fred Gerdeman – Project Manager, U.S. Department of Energy, Golden Field Office

Moderator: John Holladay - Chemical and Biological Processes Development Scientist, Biomass Program, U.S. Department of Energy/PNNL: *Bio- and Thermochemistry and the New Frontiers of Biorefining*

Panelists:

- **Dan Burciaga**, President and COO, Thermochem Recovery International: *The Hunt for the Best Thermochemical Solutions: Helping to Meet America's 2022 Strategic Energy Goals with its Diverse Biomass Feedstocks*
- **Thomas Foust**, Biofuels Research Director, National Renewable Energy Laboratory: *Thermochemistry and the New Frontier of Biorefining – A Promising Future for Gasification and Pyrolysis for Fuel Production*
- **Richard Marinangeli**, Principal Research Scientist, Renewable Energy & Chemicals Research, UOP LLC, A Honeywell Company: *Converting Pyrolysis Oils to Renewable Transport Fuels: Challenges & Opportunities*
- **Bill Schafer**, Senior Vice President of Business Development, Range Fuels: *Commercializing Range Fuels' Thermo-chemical Conversion Technology*
- **Marcus Wiley**, Manager, Wiley Consulting: *Lignocellulosic Feedstock Biorefining Processing and Supporting Challenges*