



SOUTHWESTERN BIOFUELS POLICY SUMMIT

April 13 & 14, 2010

Embassy Suites Hotel & Spa

Albuquerque, New Mexico

Tuesday, April 13

7:00 - 9:00 am Registration

PLENARY SESSION (Morning)

8:00 am

Welcome

The Honorable Senator Jeff Bingaman, video address

8:15 am

Introduction of Keynote

Terry Brunner, New Mexico State Director, Rural Development, United States Department of Agriculture

8:30 am

Next Steps to Market

The Honorable Dallas Tonsager, U.S. Rural Development Under Secretary of Agriculture, USDA

9:00 am

New Mexico's State Plan for Biofuels Leadership

Moderator: Tim Zenk, Executive Vice President, Sapphire Energy

- **Science, Research & Development and Sustainable Feedstocks**
Dr. Jose Olivares, Deputy Division Leader, Bioscience Division, Los Alamos National Laboratory and ***Dr. Margaret McCormick***, General Manager of Bio-based Materials Group, Targeted Growth
- **Economic Sustainability and Feedstock Transformation**
Dr. Steve Loring, Associate Director, Agricultural Experimental Station, NMSU
- **Production and Distribution**
Jeff Trucksess, Advisor & Founder, Green Earth Fuels and ***Dr. Van Romero***, Vice President of Research & Economic Development, NM Tech
- **Workforce Development, Education and Outreach**
Brendan Miller, Green Economy Manager, NM Economic Development Department

10:30 am

Break

10:45 am

Building a Biofuels Industry: Good Politics and Sound Science

- ***Chris Cassidy***, National Business Renewable Energy Advisor, USDA
- ***Potential Oilseed Crops for Biofuel Production in the Southwest USA***: M. Foster, Texas Agri-Life, Pecos, Texas
- ***Sustainability of Algal Biofuel Production Using Integrated Renewal Energy Park & Algal Biorefinery Approach***: B. Subhadra, University of New Mexico

12:00

LUNCHEON Keynote Address

The Honorable Senator Tom Udall, video address

TUESDAY AFTERNOON (Two Tracks)

POLICY TRACK Tuesday, April 13 (Afternoon)

1:00 pm

New Crops / New Challenges: Agriculture & Biofuels

Moderator: Julie Maitland, Division Director

Agricultural Programs and Resources, NMDA

- **Dr. C. Meghan Starbuck**, Assistant Professor of Economics & International Business, NMSU
- **Dr. Terry A. Coffelt**, Research Geneticist & Lead Scientist, New Crops, USDA-ARS-USALARC
- **Dr. Steve Loring**, Associate Director, Agricultural Experimental Station, NMSU
- **Dr. James Richardson**, Agricultural & Food Policy Center, Department of Agricultural Economics, Texas A&M University

3:00 – 3:15 pm Break

Future Markets / Present Challenges

Moderator: David Hadley, Business Development Executive, Los Alamos National Laboratory

- **Brian Knapp**, American Petroleum Institute: Necessary Infrastructure Considerations During a Fuel Transition
- **Wayne Simmons**, CEO, Sundrop Fuels: Solar Conversion of Biomass to Biofuels: Unique Challenges of Breakthrough Technology
- **Len Malry**, NM Higher Education Department: Educating the Biofuels Workforce
- **Pat Frerkes**, CPA, CCIM, Renewable Energy Financier, NRG Building Solutions and Managing Director Real Estate and Renewables: Funding A New Industry

5:00 pm **Adjourn & Reception (Poster Session)**

TECHNICAL TRACK Tuesday, April 13 (Afternoon)**

1:00 pm

Algal Biofuels

Moderator: Dr. Anthony Martino, Biofuels Manager, Sandia National Laboratories

- **Optimizing Algal Cultivation & Productivity: An Innovative, Multidiscipline, and Multi-scale Approach:** J. Timlin, Sandia National Laboratories
- **Challenges & Opportunities in Harvesting Algae for Biofuels:** P. Pohl, Sandia National Laboratories
- **Development of Integrated Algal Systems for Environmental Enhancement and Biofuels Production:** G. Oyler, University of Nebraska
- **Advances in Strain Analysis: A Cost-Effective Micro-Method for Complete Lipid Assay:** R. A. Cattolico, University of Washington

2:30 pm – 2:45 Break

Algal Biofuels

Moderator: Dr. José A. Olivares, Deputy Division Leader, Bioscience Division, Los Alamos National Laboratory

- **Flow Cytometry Technology Applied to Characterization & Optimization of Algal Cells for Biofuels:** Taraka Dale, Los Alamos National Laboratory
- **Effects of Nitrogen Source & Cultivation Conditions on Growth Rate & Lipid Production in *Nannochloropsis gaditana*:** M Ren and K. Ogden, University of Arizona
- **Integrated Mariculture for Production of Algae Biofuels and Food:** B. Wu, LiveFuels, Inc.
- **Harvesting and Extraction: The Discounted Stages of Algal Biofuels:** G. Goddard, Los Alamos National Laboratory
- **Visualization of Oil Biogenesis in Live Algal Cells with Nanoscale Resolution:** M. Cooper, University of Washington

5:00 pm **Adjourn & Reception (Poster Session)**

** First authors only are listed. To view all authors and paper abstracts, see www.swbiofuel.org

WEDNESDAY MORNING (Two Tracks)

Wednesday, April 14, 2010

POLICY TRACK (Morning)

8:00 am

Federal Biofuel Status & Prospects for Advancement

Moderator: Tim Zenk, Vice President of Corporate Affairs, Sapphire Energy

- **Ben McMakin**, Partner, Van Ness Feldman: Congressional Action on Biofuels
- **Terry Brunner**, USDA NM State Director: Administration Policies & Forecast
- **David Bradley**, ASTM: Biofuels Standards
- **Richard Wynne**, The Boeing Company: The National Aviation Market

10:00 am – 10:15 Break

Formulating Policies for Sustainable Use of Resources

Moderator: Maria Zannes, Outreach Director, SWBA

- **Doug Lynn**, Executive Director, CEHMM: Cutting the Regulatory Red Tape
- **John D'Antonio**, NM State Engineer: Water Rights & Biofuels In New Mexico
- **Claudia Hertzog**, Waste Management: Making Use of Solid Waste as a Feedstock

Wednesday, April 14, 2010

TECHNICAL TRACK (Morning)

8:00 am

Biofuel Oil Seed Crops

Moderator: Dr. Steve Loring, Associate Director, Agricultural Experimental Station, New Mexico State University

- **Desert Biodiesel – Southwest Biofuel Production:** D. Auld, Texas Tech University
- **Agronomic Production of Castor in Texas:** J. Rieff, Texas Tech University
- **Cultivation, Storage & Fermentation of Sweet Sorghum Juice in Arid Regions:** K. Ogden, University of Arizona
- **Development of Safflower as a New Winter Crop for the Texas High Plains:** S. Oswald, Texas Tech University
- **Decision Support Model for Evaluating Biofuel Development along the U.S.-Mexico Border:** Vincent Tidwell, Sandia National Laboratories

10:30 – 10:45 pm Break

10:45 am

Lignocellulosic Biofuels & Sustainable Use of Resources

Moderator: Dr. Terry A. Coffelt, Research Geneticist & Lead Scientist, New Crops, USDA-ARS-USALARC

- **Forest Thinning Residues as a Potential Fuel Source:** A. Brown, Sandia National Laboratories
- **Novel Feedstocks for Cost Effective Biofuels Production:** M.Hadi, Sandia National Laboratories
- **Deconstructing Nature's Structural Material for Biofuels:** G. Gnankaran, Los Alamos National Laboratories

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WEDNESDAY AFTERNOON (Plenary Session)

Wednesday, April 14th (Afternoon)

Noon:

LUNCHEON Welcome

The Honorable Congressman Martin Heinrich, video address

1:00 pm

Investing In New Mexico: A Focus on Stimulus Awards and their State Impact

Moderator: The Honorable Fred Mondragon, Secretary of New Mexico Department of Economic Development

ARRA Recipient Organizations Describe Their Award-Winning Projects

- ***Tim Zenk***, Vice President of Corporate Affairs, Sapphire Energy
- ***Dr. José Olivares***, Deputy Division Leader, Bioscience Division, *Los Alamos National Laboratory*
- ***Dr. Richard T. Sayre***, Director, Donald Danforth Plant Science Center
- ***Dr. Vimal Chaitanya***, Vice President of Research, New Mexico State University
- ***Doug Lynn***, Executive Director, CEHMM

3:30 pm

Adjourn