

CIFAR Conference XXIV

A Global Eye on California's Biorefinery Industry

Freeborn Hall, UC Davis

June 12, 2007

8:00 Opening. Sharon Shoemaker, founding executive director, CIFAR, UC Davis

8:10 Welcome.

Barry Klein, Vice Chancellor for Research and Professor, Physics, UC Davis

Valerie Reed, Team Lead, Integrated Biorefinery and Product Development, Office of Biomass Programs, US Department of Energy, Washington, DC

James Seiber, Center Director, USDA-ARS Western Regional Research Laboratory, Albany, CA & Professor, Environmental Toxicology, UC Davis

James Boyd, Commissioner and Vice-Chair, California Energy Commission, Sacramento, CA

8:45 California's Emerging Biorefinery/Biofuel Economy.

AG Kawamura, Secretary, California Department of Food and Agriculture, Sacramento, CA and *Mike Chrisman*, Secretary, California Resources Agency, Sacramento, CA

9:10 Panel A. The Biorefinery Landscape – California's Biofuels Policy, Feedstock Infrastructure, and Technologies. Moderator Bryan Jenkins, Director, California Biomass Collaborative, and Professor, Biological and Agricultural Engineering, UC Davis
Regulatory and Policy Landscape.

Biofuels and the *New Energy Equation* in California: *Paul Bryan*, Vice President - Biofuels Technology, Chevron Technology Ventures LLC, Richmond Technology Center, Richmond, CA

Sustainable Production: *Stephen Kaffka*, Director, Center for Integrated Farming Systems and Extension Agronomist, Plant Sciences, UC Davis

Strategies for Optimal Biomass-to-Biofuels Conversions: *Bill Orts*, Research Leader, Bioproduct Chemistry and Engineering Research Unit USDA-ARS Western Regional Research Laboratory, Albany, CA

Biomass to Alcohol Production Technologies

Dennis Schuetzle, Vice President, TSS Consultants, & President,
Renewable Energy Institute International (REII), Sacramento, CA

10:25 Panel A: Panel Discussion: Q&A

10:35 Break and Posters.

11:00 The U.S. Biorefinery Industry – A Commodity Industry Perspective.

Kyle Berry, Senior Process Engineer, James R. Randall Research
Center, Archer Daniels Midland Company, Decatur, IL

**11:20 Panel B-Part 1. Overcoming the Hurdles to Second Generation
Biofuels and Bioproducts - Drivers of Change. Moderator: Pam**

Ronald, Professor, Plant Pathology, UC Davis

Science and Technology: *Paul Hoepflich, Jr.*, Chemistry, Materials
and Life Sciences, US DOE Lawrence Livermore National Laboratory,
Livermore, CA

Energy Crop Variety Development: *Steven Thomas*, Director, Bioproducts,
Ceres, Thousand Oaks, CA

Rethinking pretreatment: What does it really need to do? *Kelly*
Ibsen, Biochemical Area Lead, and Senior Engineer, US DOE National
Renewable Energy Laboratory, Golden, CO

Programming Plants to Participate in their Own Pre-treatment: John
Labavitch, Professor, Plant Sciences, UC Davis

12:20 Panel B.1: Panel Discussion: Q&A

12:30 Lunch and Posters.

**1:30 Keynote Presentation: Overcoming the Hurdles to Second
Generation Biofuels and Bioproducts: An Integrators Perspective.**

W. Michael Sanford, Research Manager, Biochemical, Science and
Engineering, Central Research & Development, DuPont, Wilmington, DE

**1:50 Panel B-Part 2. Overcoming the Hurdles to Second Generation
Biofuels and Bioproducts - Drivers of Change. Moderator: Alison**

Berry, Professor, Department of Plant Sciences, and Director, Road
Ecology Center, John Muir Institute of the Environment, UC Davis

Discovery and Design of Improved Cellulases: *Colin Mitchinson*,
Director, Biomass Applications, Danisco/Genencor, Palo Alto, CA

Improving C5-C6 Biomass Fermentation to Ethanol: *Greg Luli, Vice President, Research, Celunol, Cambridge, MA*

2:30 Panel B.2. Questions and Answers

2:40 Break and Posters

3:00 New Business Models for Ethanol, Butanol, Biodiesel, and Other Liquid Biofuels. *Moderator: Alan Bennett, Associate Vice Chancellor, Office of Research, UC Davis*

In-state Ethanol Production: From First to Second Generation Fuels. *Tom Koehler, Pacific Ethanol, Sacramento, CA. (TBC)*

Drop-In Compatible Biofuels. *Stephen Del Cardayre, Vice President, R&D, LS9, Inc. San Carlos, CA*

Butanol as the Ideal Transition Biofuel. *Pam Contag, President and CEO, Cobalt Biofuels, Mountain View, CA*

How to Raise \$10MM for your Biofuels Start-up. *Lissa Monrgenthaler-Jones, President and CEO, Live Fuels, Menlo Park, CA*

4:15 Panel C: Panel Discussion: Q&A

4:25 Panel D. Global Perspectives. *Moderator: David Reid, Professor, Food Science and Technology, UC Davis*

Bioenergy in China: Research, Policy and a Perspective: *Xiuyun Ye, Vice President, Fuda Biotech, and Professor, Fuzhou University, P.R. China*

Biofuel Research and Refineries in Japan: *Hiro Kawamoto, NARA Institute of Science and Technology, Osaka, Japan*

5:55 Panel Discussion: Q&A

5:00 Wrap Up: Sharon Shoemaker

5:10 Reception

Posters as submitted

Displays include

UC Davis

Agricultural Sustainability Institute and UC ANR Sustainability
Research and Education Program

California Biomass Collaborative

California Institute of Food and Agricultural Research

Genome Center

Herman Phaff Yeast Culture Collection

Institute of Transportation Studies (STEPS)

US Department of Agriculture/ARS Western Regional Research Center