

Bioeconomy: Food, Energy and the Environment
July 1, 2009
Lipman Room, 8th Floor, Barrows Hall, UC Berkeley

How do we meet the food and energy needs of 10 billion people by 2050, while conserving the ecosystem services and biodiversity vital for the health of communities and the planet? What are the behavioral, technology and policy changes we need to support?

This one-day conference explores a range of innovations that together will contribute to a sustainable “bioeconomy.”

PROGRAM

8:30 – 8:45 am *Welcome and opening remarks*
Robin Marsh, *Beahrs* ELP, UC Berkeley

Plenary presentations

8:45 – 9:15 am *Food, Energy and the Environment: Synergies and Tradeoffs*
David Zilberman, UC Berkeley

9:15 – 9:45 am *Bioeconomics, Unintended Consequences, and the Need for a Holistic Approach*
Andrew P. Gutierrez, UC Berkeley

9:45 – 10:15 am *Public-Private Research Partnerships to Further Interdisciplinary Knowledge on Biorenewables*
Susan Jenkins, Assistant Director, Energy and Biosciences Institute (EBI)

10:15 – 10:30 **Q & A/Discussion**

- 10:30 – 10:45 am **Coffee/tea break**
- 10:45 – 12:15 pm ***Session 1: Perspectives on Biodiversity, Agriculture and Food Security***
- Ecosystem Services on Farming Lands: How We've Lost Them, and How Can We Get Them Back?***
 Claire Kremen, UC Berkeley
- Urban Agriculture and Urban Ecosystem Services***
 Mary Njenga, Urban Harvest, Kenya (ELP 2009)
- Agroecology: Enhancing Biodiversity for Food Sovereignty and Resiliency to Climate Change***
 Miguel Altieri, UC Berkeley
- Biodiversity and Sustainable Agriculture – The Example of Georgia***
 Elene Shatberasvili, Elkana Biological Farming Association, Republic of Georgia (ELP 2009)
- 12:15 – 12:30 pm **Q & A/discussion**
- LUNCH**
- 1:45 – 2:30 pm ***Session 2: Perspectives on Biotechnology, Agriculture and Food Security***
- Meeting the Needs of More People on Less Land with Biotechnology***
 Peter Repetti, Research Director, Mendel Biotechnology, Inc.
- Economic and Health Impacts of GM Crops in China, India, and South Africa***
 Carl Pray, Rutgers University
- 2:30 - 3:30 pm ***Session 3: Perspectives on Biofuels and Energy Security***
- Food, Fuel and GHG Emissions with Biofuels: Role of Policy and Technology***
 Madhu Khanna, University of Illinois at Urbana-Champaign

Finding Space for Biofuel Crop Production: A Small Country's Perspective

Ramon Leon, EARTH University, Costa Rica (ELP 2009)

Sustainable, Low-Carbon Bioenergy Systems & Standards for their Production

Neal Gutterson, President, Mendel Biotechnology, Inc.

3:30 – 3:45 pm

Q & A/Discussion

3:45 – 4:45 pm

Synthesis and Conclusions: How do we meet the food and energy needs of 10 billion people by 2050, while conserving the ecosystem services and biodiversity vital for the health of communities and the planet? What are the behavioral, technology and policy changes we need to support?

3:45- 4:15

Landscapes for People, Food & Nature

Sara Scherr, President Ecoagriculture Partners

4:15 -4: 45

Diversification of Liquid Fuel Production

Chris Sommerville, Director, EBI

4:45 – 5:15 pm

Q & A/Discussion

5:15 – 6:30 pm

RECEPTION