



ACEEE FORUM ON ENERGY EFFICIENCY IN AGRICULTURE
Embassy Suites Hotel † Des Moines, IA † November 14 – 16, 2005

PROGRAM
(as of 11/10/05)

Embassy Suites Hotel Guests can enjoy a complimentary cooked-to-order breakfast.

Monday, November 14:

5:00 PM – 8:00 PM **Registration** {Ballroom Lobby}
6:00 PM – 8:00 PM **Welcoming Reception** {Salon E}

Tuesday, November 15:

7:30 AM **Registration** {Ballroom Lobby}

8:30 AM – 10:00 AM **Welcome and Opening Plenary** {Salon D/E}

- Welcome -- *Senator Joe Bolkcom, (invited)*
- Government's Role in Energy and Agriculture and Why Energy Efficiency Is Important (*Ross Davidson, Senior Advisor to the Secretary for Energy Policy*)
- How Energy Is Used in Agriculture, Why It Is Important, and Where It Is Going (*John Miranowski, Iowa State University*)
- Overview of Energy Market Trends and Their Impact on Agriculture (*Neal Elliott, ACEEE*)

10:00 AM – 10:30 AM **Break** {Ballroom Lobby}

10:30 AM – 12:00 PM **Concurrent Session A** {Salon D}

- Agriculture and Renewable Energy: The Relationship Between Energy Efficiency and Renewable Energy in Agriculture
Organizer: *Jessica Zweig, New York State Energy Research and Development Authority (NYSERDA)*

William Haman, Iowa Energy Center
Melissa Dvorak, GHD Environmental Services
Brian C. Peterson, USDA, Natural Resources Conservation Service

Concurrent Session B {Salon E}

- Exemplary Agricultural Energy Efficiency Programs
Organizer: *Stefanie Aschmann, USDA West National Technology Support Center, Natural Resources Conservation Service*

Neal Elliott, ACEEE
Craig Metz, EnSave
Rich Hackner, Wisconsin Focus on Energy
Debra Goodey and Jenn Cram, Efficiency Vermont

12:00 PM – 1:30 PM **Lunch** {Atrium}

1:30 PM – 3:00 PM **Breakout Session I**

Session Ia {Salon D}

- Vehicles and Agriculture Energy: “Well Beyond Tune-Ups”
Organizer: *Therese Langer*, ACEEE

Lyle Stephens, Deere & Company
John H. Lumkes Jr., Agricultural & Biological Engineering, Purdue University
Therese Langer, ACEEE

Session Ib {Salon E}

- Load Management on Farms and Ranches
Organizer: *Steve Nadel*, ACEEE
Facilitator: *Bill Johnson*, Alliant Energy

Dale Bowe, Wisconsin Public Service Corporation
Ricardo Amon, California Energy Commission

Session Ic {Salon A/B}

- Energy Use in the Dairy Industry: Improving Product Quality, Increasing Production, and Reducing Energy Intensity
Organizer: *Joe Schultz*, Wisconsin Focus on Energy

Scott Sanford, University of Wisconsin, Extension
Dr. Leo Timms, Iowa State University Extension

3:00 PM – 3:30 PM

Break {Ballroom Foyer}

3:30 PM – 5:00 PM

Breakout Sessions II

Session IIa {Salon D}

- Agricultural Irrigation Efficiency
Organizer: *Ricardo Amon*, California Energy Commission

Richard Stroh, Bonneville Power Administration, Idaho Falls Office
Patsy Dugger, Pacific Gas & Electric Co.

Session IIb {Salon E}

- Energy Efficiency in Crop Production and Impacts of Tillage and Nutrient Management Practices on Energy Use by Agriculture
Organizers: *Mike Duffy*, Iowa State University and *Michael D. Adams*, Iowa Department of Natural Resources

Mark Hanna, Agricultural Engineer, Iowa State University Extension Office
Shawn Shouse, Agricultural Engineer, Iowa State University Extension Office
John Sawyer, Extension Soil Fertility Specialist and Associate Professor in Agronomy, Iowa State University Extension Office

Session IIc {Salon A/B}

- More State/Utility Program Examples
Organizer: *Steve Nadel*, ACEEE

Jessica Zweig, New York State Energy Research and Development Authority (NYSERDA)
Peter Canessa, California Pumping Program

6:30 PM – 8:30 PM

Dinner {Salon E}

Wednesday, November 16:

7:30 AM

Registration {Ballroom Lobby}

8:30 AM – 10:00 AM

Concurrent Session A {Salon D}

- Financing and Funding Energy Efficiency in Agriculture; Paying for Energy Efficiency: Accessing Private and Public Dollars
Organizer: *Charles Kubert*, Environmental Law and Policy Center

Teresa Bomhoff, USDA Rural Development, Iowa
Cory Fuehrer, Technical Solutions Supervisor, Nebraska Public Power District

Concurrent Session B {Salon E}

- Energy Efficiency as an Integral Part of Sustainable Agriculture
Organizer: *Mike Morris*, National Center for Appropriate Technology

Stefanie Aschmann, USDA West National Technology Support Center, Natural Resources Conservation Service
Richard Pirog, Leopold Center, Iowa State University

10:00 AM – 10:30 AM

Break {Ballroom Lobby}

10:30 AM – 12:00 PM

Breakout Sessions III

Session IIIa {Salon D}

- Special Issues in Working with Small Farms/Ranches
Organizer: *Glee Murray*, ACEEE

Mark Kingland, Alliant Energy
Gary "Charlie" Melander, associated with The Land Institute
David J. Dunn, Central Vermont Public Service Corporation

Session IIIb {Salon E}

- Using Environmental Controls to Reduce Energy Consumption and Improve Productivity in Confinement Livestock and Poultry Operations
Organizer: *Jim Bodensteiner*, Iowa Department of Natural Resources

Gunnar Josefsson, Orion Lighting
Kevin A. Janni, University of Minnesota

Session IIIc {Salon A/B}

- Energy Efficiency Issues in Grain Handling and Drying
Organizer: *Rich Hasselman*, Wisconsin Focus on Energy

Scott Sanford, University of Wisconsin, Extension
Steve Morriem, QED Dryer Services

12:00 PM – 1:15 PM

Lunch {Atrium}

1:15 PM – 2:45 PM

Breakout Sessions IV

Session IVa {Salon D}

- Opportunities for Reduced Energy Use with Electric Motors and Drives
Organizer: *John Malinowski*, Baldor Electric Company

Moderator: *Dick Walker*, MidAmerican Energy
Dave Ahlberg, MidAmerican Energy
John Malinowski, Baldor Electric Company

Session IVb {Salon E}

- Precision Agriculture
Organizer: *Martin Adkins*, USDA Natural Resources Conservation Service
Moderator: *Mike Duffy*, Iowa State University

Patrick Reeg, Iowa Soybean Association
Bob Barker, AgVantage FS, Inc.
Dennis Gerholdt, Farmer near Cedar Falls in Black Hawk Co.

Session IVc {Salon A}

- Marketing: “What Works?” – Panel discussion on how different programs can work together for greater effectiveness
Organizers: *Rich Hackner*, Wisconsin Focus on Energy and *Neal Elliott*, ACEEE

Floyd Barwig, Iowa Energy Center
William Hagy, USDA
Greg Welsh, Organic Valley Family of Farms Cooperative
Bill Johnson, Alliant Energy

Session IVd {Salon B}

- Energy Efficiency in the Farm Bill: Next Steps
Organizer: *Neal Elliott*, ACEEE
Moderator: *Lloyd Ritter*, Counsel, U.S. Senate Agriculture Committee

Charles Kubert, Environmental Law and Policy Center
Peter Dreyfuss, Department of Energy Midwest Regional Office
Mark Kingland, Alliant Energy
Jim Bodensteiner, Iowa Department of Natural Resources

2:45 PM – 3:15 PM

Break {Ballroom Lobby}

3:15 PM – 4:45 PM

Closing Plenary: *Where Do We Go from Here?* {Salon DE}

Chair: *Steve Nadel*, ACEEE

Panelists: *Peter Dreyfuss*, USDOE

Neal Elliott, ACEEE

Stanley Johnson, Iowa Extension Center

Floyd Barwig, Iowa Energy Center

Ross Davidson, Senior Advisor to the Secretary for Energy Policy

CONFERENCE SPONSORS

Iowa Energy Center, Host Sponsor

Alliant Energy

Iowa Department of Natural Resources

MidAmerican Energy

New York State Energy Research and Development Authority

U.S. Department of Agriculture

U.S. Department of Energy

Wisconsin Focus on Energy