

**First Workshop**  
**Methane Recovery from Hog Waste Integrated**  
**with Combined Heat & Power Technologies:**

Wednesday, November 3, 2004

**Location:** Western Iowa Tech Community College  
Large Lecture Hall  
Building A, Room #D103  
4647 Stone Avenue, Sioux City, Iowa

**8:00 REGISTRATION / COFFEE**

**MORNING SESSION:**

**8:30 WELCOME**

Dr. Awoke Dollisso, Agriculture Instructor, Western Iowa Tech  
Gary Nowakowski, U.S. DOE Midwest Regional Office

**8:45 Video – Anaerobic Digester / CHP System**

Colorado Pork, Custom Swine Producers

**9:00 IOWA MANURE MANAGEMENT PLANNING**

Gene Tinker, Animal Feeding Operations Coordinator, IDNR

**9:30 DIGESTER BASICS**

Dr. Robert Burns, Iowa State University

**10:00 MORNING BREAK**

**10:15 DIGESTER TECHNOLOGY PANEL**

**Moderator:** John Cuttica, Midwest CHP Application Center

**Panel Members:**

- Bob Hoffland, Hoffland Environmental, Inc.
- Duane Hanusa, Hanusa Renewable Energy
- Bob Paterek, Consultant, Anaerobic Digestion
- Mark Moser, RCM Digesters

**11:30 LUNCH**

**AFTERNOON SESSION:**

**12:30 COMBINED HEAT & POWER – THE CONCEPT**

John Cuttica, Midwest CHP Application Center

**1:00 TECHNICAL INTEGRATION OF CHP WITH DIGESTERS**

Bob Hoffland, Hoffland Environmental

Jan Scott, Unison Solutions

**1:45 COMBINED HEAT & POWER – CASE STUDIES / BUSINESS CASE**

Dr. Steffen Mueller, Midwest CHP Application Center

**2:15 AFTERNOON BREAK**

**2:30 NEXT STEPS: FUNDING, INCENTIVES, TECHNICAL ASSISTANCE**

Ellen Huntoon, Rural Development Coordinator, United States Senate Committee on Agriculture, Nutrition, and Forestry

▪ USDA Farm Bill / Methane Recovery Tax Exemptions / Energy Bill

Bill Johnson, Manager of Agricultural Services, Alliant Energy

▪ Utility incentives / Working with your utility

Bill Haman, Alternate Energy Revolving Loan Program Manager, Iowa Energy Center

▪ IEC's Alternate Energy Revolving Loan Program

Kelley Myers, Grant and Budget Coordinator, Energy and Waste Management Bureau, IDNR

▪ IDNR Energy Program

**3:30 WESTERN IOWA TECH's AGRICULTURE PROGRAMS**

Dr. Awoke Dollisso, Western Iowa Tech

**4:00 ADJOURN**

**Second Workshop**  
**Methane Recovery from Hog Waste Integrated**  
**with Combined Heat & Power Technologies:**

**Location:** Kirkwood Community College  
Washington Hall  
6301 Kirkwood Blvd., S.W.  
Cedar Rapids, Iowa

Thursday, November 4, 2004

**8:00 REGISTRATION / COFFEE**

**MORNING SESSION:**

**8:30 WELCOME**

Jerry Bolton, Dean of Agricultural Science, Kirkwood Community College  
Gary Nowakowski, U.S. DOE Midwest Regional Office

**8:45 Video – Anaerobic Digester / CHP System**

Colorado Pork, Custom Swine Producers

**9:00 IOWA MANURE MANAGEMENT PLANNING**

Gene Tinker, Animal Feeding Operations Coordinator, IDNR

**9:30 DIGESTER BASICS**

Dr. Robert Burns, Iowa State University

**10:00 MORNING BREAK**

**10:15 DIGESTER TECHNOLOGY PANEL**

**Moderator:** John Cuttica, Midwest CHP Application Center

**Panel Members:**

- Bob Hoffland, Hoffland Environmental, Inc.
- Duane Hanusa, Hanusa Renewable Energy
- Bob Paterek, Consultant, Anaerobic Digestion
- Mark Moser, RCM Digesters

**11:30 LUNCH**

**AFTERNOON SESSION:**

**12:30 COMBINED HEAT & POWER – THE CONCEPT**

John Cuttica, Midwest CHP Application Center

**1:00 TECHNICAL INTEGRATION OF CHP WITH DIGESTERS**

Bob Hoffland, Hoffland Environmental

Jan Scott, Unison Solutions

**1:45 COMBINED HEAT & POWER – CASE STUDIES / BUSINESS CASE**

Dr. Steffen Mueller, Midwest CHP Application Center

**2:15 AFTERNOON BREAK**

**2:30 NEXT STEPS: FUNDING, INCENTIVES, TECHNICAL ASSISTANCE**

Ellen Huntoon, Rural Development Coordinator, United States Senate Committee on Agriculture, Nutrition, and Forestry

- USDA Farm Bill / Methane Gas Tax Exemptions / Energy Bill

Bill Johnson, Manager of Agricultural Services, Alliant Energy

- Utility incentives / Working with your utility

Bill Haman, Alternate Energy Revolving Loan Program Manager, Iowa Energy Center

- IEC's Alternate Energy Revolving Loan Program

Kelley Myers, Grant and Budget Coordinator, Energy and Waste Management Bureau, IDNR

- IDNR Energy Program

**3:30 KIRKWOOD CC's LIVESTOCK & COMPOSTING PROGRAMS**

Barrie Swinbank / Jerry Bolton, Kirkwood CC

- Overview of Kirkwood's composting & livestock programs
- Tour of composting & livestock facilities

**4:15 ADJOURN**