15th Annual LMOP Conference and Project Expo Summary

- Welcome and Conference Overview
  Swarupa Ganguli, Landfill Methane Outreach Program (LMOP), U.S. Environmental Protection Agency (EPA)
- Keynote Address
  David H. Mauney IV, Energy Developments, Inc.

Session 1: What’s New in ’11 – Direct Use, High BTU

- Hospital Beneficial Use of LFG - Rockingham County, VA
  Darrin Dillah, SCS Engineers; Warren Heidt, Director of Public Works, Rockingham County
- New Beneficial Use of LFG - Animal Incinerator
  Tom Smith and Sadhu Sandhu, Prince William County
- High BTU and the Billings Montana Landfill
  Michael Mitariten, Guild Associates Inc.
- Dekalb County LFG to RNG and Utilizing it for CNG Fuel in Solid Waste Vehicles
  Billy Malone, DeKalb County

Session 2: What’s New in ’11- Electricity

- Integrated Utility Improvement Project Gas to Energy Plant and Compressor Building
  Douglas G. Tholo, HR Green
- Mississippi’s First Landfill Gas to Electric Power Development- How a Public Entity Took Control and Made it Happen, A Lesson in Self Development
  Jimmy Sloan, Golden Triangle Regional Solid Waste Management Authority
- Equipment Considerations for LFG Gensets, Determining the Total Cost of Ownership
  Mauricio A. Lopez and Ben Mathews, Caterpillar Electric Power-Gas

Lunch

- 2011 LMOP Partner and Project of the Year Awards Luncheon

Session 3: Financing and Market Outlook

- Wholesale Power Markets, Risks and Rewards of Merchant Generation
  Gabriel Phillips, CEO of GP Renewables & Trading
- The Changing Landscape of Methane: Where Are Natural Gas Prices Headed
  David M. Tucker, Atmos Energy
- Tax and Non-Tax Incentives for Landfill Gas to Energy Projects
  Laura Jones, Hunton and Williams
- IFC Mechanisms for Participating in and Mobilizing Capital for the Solid Waste Sector in Emerging Markets
  Jim Michelsen, International Finance Corporation

Session 4: Overcoming Technical and Regulatory Challenges

- Hydrogen Sulfide Remediation at King George County Landfill, King George, VA
  William Tennant, Waste Management
• **Real Time Siloxane Measurements at Landfill and Digester Sites Using FTIR**  
  Barbara Marshik, MKS Instruments

• **Regulatory Compliance and Your Landfill Gas to Energy Project**  
  Keith A. Johnson, BAS

**Session 5: Small Scale LFGE**

• **Small LFG-to-Pipeline as an Economic Development Driver in Rural Virginia**  
  Ed Rogers, Clean Energy Research & Development Center

• **EnergyXchange: The World’s First Small-Scale Art and Horticulture Based LFG Project: Still in Business After 12 Years**  
  Chad Leatherwood, SCS Engineers

• **Facilitating Community Based LFG Statewide: 6 Years, 14 Counties, and 10 Projects**  
  Jason W. Hoyle, Appalachian Energy Center

**Session 6a: Round Robin of Technical Issues #1**

• **Evaluating Landfill Gas Collection Efficiency Uncertainty**  
  H.R. Amini and D.R. Reinhart, University of Central Florida

• **CALMIM: A Field-Validated Model for Annual Site-Specific Landfill Methane Emissions**  
  Meg Corcoran, University of Illinois

• **Challenges and Opportunities of Biomethane for Pipeline Injection in California “A Utility Perspective”**  
  Valentino M. Tiangco, Ph.D., SMUD

**Session 6b: Round Robin of Technical Issues #2**

• **Increasing LFG Collection Rates Using Gas Well Dewatering Systems- Lessons Learned**  
  David Kaminski, QED

• **Converting LFGTE Projects to Combined Heat and Power Cycles**  
  Terry Beasy, Heartland Technology Partners, LLC

• **LMOP Locator Training**  
  Amy Alexander, ERG

**Session 7: Financial Engineering's the Key: How a Long-Term Energy Sale Agreement and Bond Offering Transformed the McCommas Bluff LFGE Project. Three Perspectives on One Project**

• **Doug Lamb, McGuire Woods**

• **Evan Williams, Cambrian Energy**

• **Lawrence N. Tonomura, Bank of America Merrill Lynch**

**Session 8: Where are They Now?**

• **Integrating Co-Generation for Renewable Fuel Production at the Catawba County North Carolina EcoComplex**  
  Jeffrey E. Ramsdell, Jeremy Ferrell, and Zack Hobbs, Appalachian State University

• **Lessons Learned in Developing and Operating a Small LFG to BioCNG Vehicle Fuel Project**  
  Mark Torresani, Cornerstone

• **Follow Up on Keene, NH LFG Project**  
  David E. Adams, Sanborn Head