

# 9th Modeling Conference Presentations

## Day 1 - October 9, 2008

### Morning Session

#### *Welcome 9th Modeling Conference*

#### *Appendix W Refresher*

- [General Overview](#) – Tyler Fox
- [Clarification Memorand](#) – Roger Brode

#### *Non-Guideline Applications*

- [Non-Guideline Applications: Introductory Remarks](#) – Tyler Fox
- [2002 National Air Toxics Assessment \(NATA\)](#) – Ted Palma
- [AERMOD Experiences during the Birmingham Area Particle Study \(BAPS\)](#) – Leigh Bacon/Joe Sims
- [Use of Photochemical Grid Models for NEPA: New Oil and Gas Wells](#) - Ralph Morris

#### *Use of Gridded MET in Dispersion Models*

- [Introduction](#) – Bret Anderson
- [MM5-AERMOD Tool](#) – Roger Brode
- [Mesoscale Model Data Reformatter Program](#) – Herman Wong

### Afternoon Session

#### *Current Guideline Models – AERMOD*

- [AERMOD Implementation WorkGroup \(AIWG\)](#) – Randy Robinson
- [AERMOD Modeling System: Status and Updates](#) – Roger Brode
- [AERSURFACE Tool: Status and Update](#) – Roger Brode
- [AERSCREEN: Status and Update](#) – James Thurman
- [BPIP/PRIME Workgroup](#) – Roger Brode
- [AERMIC Update](#) – Roger Brode

#### *Current Guideline Models – CALPUFF*

- [CALPUFF Modeling System: Status & Updates](#) – Tyler Fox
- [Science and Implementation Issues](#) – Roger Brode
- [API Efforts to Address CALPUFF Chemistry Issues](#) – Prakash Karamchandani
- [CALPUFF Development, Maintenance & Evaluation](#) – Joe Scire
- [CALPUFF Performance Evaluation](#) – Bret Anderson

## **Day 2 - October 10, 2008**

### **Morning Session**

#### ***Review of Current and Available Model Evaluation Methods***

- [Introductory Remarks: Model Evaluation Methods](#) – Tyler Fox
- [Overview of Atmospheric Model Evaluation Tool \(AMET\)](#) – Wyatt Appel
- [Comments on Evaluation Procedures for AQ/Met Models](#) – Bob Paine
- [AERMOD Evaluation for Non-Guideline Applications](#) – Roger Brode
- [Evaluation Methods for Long Range Transport](#) – Bret Anderson

#### ***Review of new and Emerging Models/Techniques for Future Consideration***

*Long range transport modeling (particle, puff, etc.)*

- General Overview – Bret Anderson
- [New and Emerging Model Technology for the Regulatory Model Community](#) – Bret Anderson
- [Overview of HYSPLIT](#) – Roland Draxler
- [Overview of Puff-Particle Model \(PPM\)](#) – Joe Scire  
*Single-Source Modeling for O<sub>3</sub>, PM<sub>2.5</sub>, and Visibility*
- [Development and Application of Advanced Plume-in-Grid \(PiG\) Multi-pollutant Models](#)  
– Prakash Karachamchandi
- [Single Source Modeling w/ Photochemical Models](#) – Kirk Baker
- [Single Source O<sub>3</sub> & PM<sub>2.5</sub> Modeling](#) – Ralph Morris

### **Afternoon Session**

#### **Public Presentations**

- [Comments on behalf of the American Petroleum Institute](#) – Dr. Bruce Egan
- [Evaluation of the Accuracy of MM5/CALMET Generated Wind Fields in Southwestern Wyoming](#) - Doug Blewitt
- [Case Study of Comparisons of MM5/CALMET Modeling Outputs](#) – Doug Blewitt
- [Use of NOAA Reanalysis Data for AERMET/AERMOD](#) – Peter Manousos
- Air and Waste Management Association (AWMA) Presentations:
  - [Introduction](#) – George Schewe
  - [AERMOD Issues](#) – George Schewe
  - [CALPUFF Issues](#) – Gale Hoffnagle
  - [Meteorological Input to Models](#) – Joe Scire
  - [Comments on Building and Terrain Downwash Issues](#) – Ron Petersen
  - [Comments on Modeling PM<sub>2.5</sub> Emissions](#) – Bob Paine
- Comments on behalf of Utility Air Regulatory Group (UARG) – Penny Shamblin
- [Regulatory Air Quality Models for next Generation Computers: Prospects and Challenges](#)  
– George Delic