

Final Agenda (04/11/14)

2014 Midwest and Central States Air Quality Workshop April 22 – 24, 2014 St. Louis, MO

Purpose

The Workshop will bring together air quality researchers who have a focus on the central and midwestern portions of the U.S., technical state agency staff, and federal regulatory agency staff to share current research, methodologies, and projects. Session topics include emissions, data analyses, and modeling.

Meeting Location

Drury Plaza Hotel at the Arch, 4th floor conference room, 2 South 4th Street in downtown St. Louis.

Meeting Attire:

Jackets and ties are not allowed; Hawaiian shirts are optional.

Day 1, Tuesday, April 22, 2014

- 12:30 Welcome and Introductions – Rob Kaleel (LADCO), Theresa Pella (CenSARA), and Kirk Baker (US EPA OAQPS)
- 01:00 Overview of Central and Midwestern States Air Quality Issues: Design Values, Nonattainment, etc. - Theresa Pella (CenSARA) and Donna Kenski (LADCO)

(breaks as needed)

Ammonia (Moderator – Kirk)

- 01:30 Elevated Winter Nitrate in the Upper Midwest - Dr. Charles Stanier (Univ. of Iowa)
- 02:00 Process Based Ammonia Emissions Estimates - Margaret McCourtney (Minnesota)
- 02:30 Modeling and Observational Constraints of NH₃ Emissions and Sources of Nitrogen Deposition - Daven Henze (University of Colorado at Boulder)
- 03:00 Ammonia Monitoring Network – Chris Lehmann (Illinois State Water Survey)

Oil & Gas (Moderator – Theresa)

- 03:30 Development of EPA Oil & Gas Emissions Calculator Tool - Roy Huntley (US EPA OAQPS)
- 04:00 Satellite Signatures of Trace Gases Associated with US Oil and Gas Extraction FY 14 ACAST Project – Debra Kollonige (Univ of MD) and Brad Pierce (NOAA)
- 04:30 Status of Methane Emission Studies Across the Natural Gas System - Andrew Williams (Env. Defense Fund)
- 05:00 Wrap up for the day

Day 2, Wednesday, April 23, 2014

(breaks as needed)

Emissions Modeling (Moderator – Rob)

- 08:00 Relationships and Trends among Satellite NO₂ Column and NO_x Emissions - David Streets (Argonne National Lab) ACAST Project
- 08:30 What can year-long hourly measurements tell us about emissions? - Benjamin de Foy (Saint Louis University)
- 09:00 Coordinating Research Council Project: State-Supported MOVES Input Improvements – John Koupal (Eastern Research Group)
- 09:30 ERTAC EGU Model and Compare/Contrast to IPM –Mark Janssen (LADCO)
- 09:50 Characterizing Growth in the Power Sector for Regional Air Quality Modeling - Bob Lopez (Wisconsin)
- 10:15 Residential Fuel Combustion Inventory and Projections – Melissa Kuskie (Minnesota)
- 10:45 Compare/Contrast of MEGAN and BEIS - Kirk Baker (US EPA)

Meteorological and Air Quality Modeling (Moderator – Rob)

- 11:15 CMAQ and CAMx Overview and Recent Updates – Chris Emery (Environ)
- 11:45 WRF Meteorological Model Evaluation – David Brown (State of Iowa)

12:15 – Working Lunch (box lunches provided)

- 12:45 LADCO's 2011 and 2018 Ozone Modeling – Alex Cohan (LADCO)
- 01:15 IWAQM3: Single Source Long Range Transport and Near-Field Secondary Impacts – Bret Anderson (USFS) and Kirk Baker (US EPA)

Transport/Source Apportionment (Moderator – Kirk)

- 01:45 2011 Based Source Contribution and Sensitivity Modeling (Kirk Baker, US EPA)
- 02:15 Quantifying Source Contributions to O₃ and PM_{2.5} Pollution Episodes across the Eastern US ACAST Project - Tracey Holloway (Univ. of Wisconsin -Madison)
- 02:45 SEMAP 2018 Ozone and PM_{2.5} Projections and Ozone Transport Modeling – Jim Boylan (Georgia DEP)

Exceptional Events, Fires, and background (Moderator – Kirk)

- 03:15 Quantifying Regional Background Ozone for Houston, TX – Jim Smith (TCEQ)
- 03:45 Flint Hills Exceptional Event Technical Demonstration - Kenneth Craig and Lyle Chinkin (Sonoma Tech on behalf of Kansas)
- 04:15 Impact of Western State Fires on the Central and Midwest US - Tom Moore (WRAP)
- 04:40 DEASCO₃ Project and WRAP Tools- Purpose and Usefulness for the Central and Midwestern States - Tom Moore (WRAP)
- 05:00 Wrap up for the day

Day 3, Thursday, April 24, 2014

(breaks as needed)

Single Source Modeling for Secondary Pollutants (near field/long range) (Moderator – Rob)

08:00 LADCO Approach -Alex Cohan (LADCO)

08:20 Development and Application of PM2.5 Interpollutant Trading Ratios to Account for PM2.5 Secondary Formation in Georgia – Jim Boylan (Georgia DEP)

1-hr SO2 NAAQS Panel (Moderator – Rob)

08:45 Designations, Permitting, SIP Work (Panel members include: John Summerhays (US EPA, Region 5), Erik Snyder (US EPA, Region 6), Ken Ritter (Indiana), Emily Wilbur (Missouri), Jeff Sprague and David Bloomberg (Illinois))

State Technical Work Highlights– (5-10 min each) (Moderator – Theresa)

09:45 LADCO States (IL, IN, MI, MN, OH, WI) and CenSARA States (AR, IA, KS, LA, MO, NE, OK, TX)

11:45 Meeting summary and group discussion on workshop reactions and next steps

Adjourn workshop (12:30)

Notes:

There will not be a group tour of the St. Louis Cardinals ballpark. For more information about public tours: <http://stlouis.cardinals.mlb.com/stl/ballpark/tours/index.jsp>

The University of Illinois and University of Missouri baseball teams are playing at Busch Stadium on Wednesday, April 23rd, at 6:30 pm. Tickets may be purchased online and picked up at the Call Waiting window at Busch. <http://www.mutigers.com/sports/m-basebl/sched/miss-m-basebl-sched.html> or <http://www.fightingillini.com/sports/m-basebl/sched/ill-m-basebl-sched.html>