

# 2016 Midwest and Central States Air Quality Workshop

## Agenda

June 21-23, 2016

Crown Plaza St. Louis – Downtown

200 N. Fourth Street, St. Louis, MO 63102

**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 Attire:** Business casual. Jackets and ties are not allowed.

**Meeting coordination points of contact:** Theresa Pella (CenSARA), Rob Kaleel (LADCO), Kirk Baker (US EPA OAQPS)

### Day 1

- 12:40 Welcome and Introductions – Rob Kaleel (LADCO), Theresa Pella (CenSARA), and Kirk Baker (US EPA OAQPS)
- 01:00 Overview of air quality planning programs and deadlines – Theresa Pella, CenSARA
- 01:20 Wrap up of current projects and the future of AQAST projects and training program – Tracy Holloway, Univ of Wisconsin-Madison

### **Exceptional Events Guidance**

- 01:40 Exceptional events guidance update: Melinda Beaver & Beth Palma (by phone), US EPA OAQPS
- 02:00 Exceptional Events: Texas demonstration lessons learned, Erik Gribbin (Texas)
- 02:20 Exceptional events Q&A and discussion
- 02:45 BREAK

### **Regional Haze Rule**

- 03:00 Preparing for the Regional Haze Rule 2<sup>nd</sup> implementation period – Melinda Beaver, US EPA OAQPS
- 03:20 CenSARA Class I area visibility assessments – Uarporn Nopmongcol, Ramboll ENVIRON
- 03:40 LADCO Class I areas visibility assessments – Donna Kenski, LADCO
- 04:00 Georgia approach for estimating reasonable progress – Jim Boylan, Georgia
- 04:20 WRAP perspectives on regional haze – Tom Moore, WRAP
- 04:40 Regional haze Q&A and discussion
- 05:00 ADJOURN

## Day 2

- 08:00 EPA overview: translating technical work for 2015 Ozone, PM2.5, Regional Haze technical needs– Richard Wayland, US EPA OAQPS
- 08:15 EPA plans for providing ozone contribution information for “good neighbor SIPs” – Norm Possiel, US EPA OAQPS
- 08:30 Q&A and discussion
  
- 08:50 CAMx overview and recent updates – Chris Emery, RambollEnviron
- 09:20 Fine Scale model application for the Kansas City region – Lance Avey and Andy Hawkins, U.S. EPA Region 7
- 09:40 Midwest Clean Air Stewardship - Building upon the St. Louis Ozone Gardens: A New EPA Region-7 Environmental Education Initiative – Jack Fishman and Kelley Belina, Saint Louis University
- 10:00 BREAK

### **Characterizing local to regional sources (including single source permit related programs)**

- 10:20 Modeling single source impacts on O<sub>3</sub> and secondary PM2.5 for permit related programs – Kirk Baker, U.S. EPA
- 10:40 API single source secondary impacts (O<sub>3</sub> & PM2.5) modeling project – Dennis McNally, Alpine Geophysics
- 11:00 Updates on Class I AQRV Assessments & FLAG guidance – Bret Anderson, USFS
- 11:20 BOEM Gulf of Mexico study to determine exemption levels for permitting – Holli Ensz, Bureau of Ocean Energy Management (remote presentation)
- 11:30 Gulf of Mexico Air Quality Study Concept: Trace transport, Atmospheric Dynamics, Monitoring and Modeling– Jose Hernandez, Bureau of Ocean Energy Management
- 11:40 AQAST NOAA/NESDIS liaison highlights and planning for a future Great Lakes airborne mission -- Brad Pierce, NOAA/NESDIS

LUNCH at NOON (provided by LADCO/CENSARA)

### **Oil & gas sector characterization**

- 01:00 Update on oil & gas NEI and emissions tool – Marc Houyoux & Jennifer Snyder, U.S. EPA OAQPS
- 01:20 National Oil and Gas Committee: Looking Ahead – Mark Gibbs, OK
- 01:40 Using field campaign (SENEX 2013 and SONGNEX 2015) observations to constrain model predictions of oil & gas emissions in multiple central state shales (Fayetteville, Haynesville, Eagle Ford, etc.) – Stu McKeen, NOAA
- 02:00 Estimating Nitrogen Oxides (NO<sub>x</sub>) Emissions from U.S. Shale Plays using an Integrated Top-down and Bottom-up Approach - Kuo-Jen Liao, Texas A&M-Kingsville
- 02:20 BREAK

### **Fires, stratospheric ozone, & international contribution (non-U.S. anthropogenic source characterization)**

- 02:40 Influences of wildfires and stratospheric-tropospheric exchange on ozone during SEACIONS mission over St. Louis – Jack Fishman, Saint Louis U.
- 03:00 Highlights from 2013 St. Louis Air Quality Study (SLAQRS) and thinking toward future regional air quality assessments in the midwest – Michael Walker, Washington University
- 03:20 Satellite data, modeling, and planned field study for better charactering wildfire impacts (FIREX) – Brad Pierce, NOAA
- 03:40 Fire tracking and emissions estimation tools for wild, prescribed, and agricultural fires – Tom Moore, WRAP
- 04:00 Fire and biogenic modeling – Kirk Baker, U.S. EPA OAQPS
- 04:20 Influence of biogenic emissions and boundary conditions on attainment modeling – Alex Cohan, LADCO
- 04:40 Discussion period
- 05:00 ADJOURN

### **Day 3**

#### **Emissions Inventories & Modeling**

- 08:00 Update on the 2014 National Emission Inventory: current status and planned updates – Marc Houyoux, U.S. EPA OAQPS
- 08:20 Analysis of onroad emissions using MOVES2014 – Mark Janssen, LADCO
- 08:40 Taking MOVES to the Cloud – Julie McDill, MARAMA
- 09:00 Evaluation of vertical resolution and biogenics modeling on ozone and ozone precursors – Monica Harkey, UW-Madison
- 09:20 ERTAC EGU update – Mark Janssen, LADCO
- 09:40 LADCO marine vessel project and organizational effort to improve rail emissions at national level – Mark Janssen, LADCO
- 10:00 BREAK

#### **Data Sharing, training opportunities, and leveraging other programs & organizations**

- 10:20 Applicability of the Intermountain region data warehouse beyond the west – Tom Moore, WRAP
- 10:40 E-Enterprise project for consolidating facility reporting to national databases: Combined Air Emissions Reporting (CAER) project – Marc Houyoux, US EPA OAQPS
- 11:00 [State perspectives on the E-Enterprise CAER project](#) – Kathy Pendleton, TX and Mark Gibbs, OK
- 11:30 E-Enterprise CAER project Q&A and discussion
- 12:00 Workshop summary and action items

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