



## ***WRAP Workshop on Fire, Carbon, and Dust***

**May 23-24, 2006  
Sacramento, CA**

The primary goal of the workshop is to present and discuss the WRAP's key technical results regarding fire, carbon, dust, and their implications for the regional haze strategies to be included in SIPs and TIPS. With much of the WRAP's technical work complete, the workshop will provide an opportunity to align regional strategies with supporting data and to guide the completion of the technical work. Carbon and dust share several qualities that enable their joint discussion at this workshop. Much of the carbon and all of the dust are emitted directly into the atmosphere and not formed through chemical transformations. Significant portions are emitted episodically and much of the emissions are natural. There are also significant uncertainties regarding their current and future emissions and the amount that is truly natural.

All WRAP members and stakeholders are encouraged to attend this workshop. Its objectives, audience, and format will be similar to the sulfate and nitrate workshop hosted in Tuscon on January 10-11, 2006. Time will also be allotted for updates and discussion on other issues related to the regional haze SIPs and TIPS, such as emissions, air quality modeling results, control strategies for other pollutants. Note, this meeting was initially planned for May 24-25, but is instead being held on May 23-24.

***RSPV Lee Alter at [lalter@westgov.org](mailto:lalter@westgov.org) or 520-628-3173***

### **Hotel Information**

Holiday Inn Capitol Plaza  
300 J Street  
Sacramento, CA 95814  
916-446-0100 or 800-465-4329

A room block has been set up for May 22-24, with a few rooms on the 25th under "WRAP" at a contracted rate of \$94.00 per night, single occupancy. Rooms will be held in the block until April 25.

### **Transportation**

The Holiday Inn Capitol Plaza hotel is a 10 minute drive from the Sacramento airport. Transportation to and from the airport is available through Super Shuttle at a one-way rate of \$14 per person. Prior reservations are not required. Follow the signs to Ground Transportation upon arrival in Sacramento to arrange for Super Shuttle service to the Holiday Inn.

Tuesday, May 23

8:00 Introductions and Workshop Overview

**Summary of WRAP and Other Relevant Data  
Regarding Fire and Carbon**

8:15 State of the Science on Sources of Carbonaceous Aerosols and Their Contribution to Regional Haze [*Invited: John Watson, DRI*]

8:45 Emissions of Carbon from Fire and Other Sources

- Fire emissions [*Dave Randall, Air Sciences*]
  - o 2002 actual emissions (wildfire, prescribed fire, etc.)
  - o 2000-04 emissions
  - o 2018 emissions and emission reduction techniques
  - o Summary of natural vs anthropogenic emissions (and seasonality???)
- Mobile sources, residential wood combustion, biogenics, and other sources [*Alice Edwards, AK*]

9:30 Regional Air Quality Modeling [*Mary Uhl, NM*]

- Model performance and uncertainty with respect to carbon
- Air quality and visibility changes expected between 2002 and 2018
- Modeled source apportionment results (clean run, tagging, and primary/secondary/biogenic)

10:00 Break

10:30 Ambient Monitoring and Data Analysis [*Invited: Marc Pitchford, NOAA*]

- Spatial-temporal patterns of carbon and its contribution to haze
- Long-term trends
- Receptor modeling (PMF, site groupings, back trajectories, source contributions and verifications)

11:15 Weight of Evidence [*Joe Adhloch, Air Resource Specialists*]

- Case studies
- Technical Support System website

12:00 Lunch

1:00 Policy Tools and Discussion of Next Steps

- Overview of WRAP fire policies and guidance and examples of how they've been used [*Darla Potter, WY and Mark Fitch, USFS*]
- Relevant non-WRAP data (e.g., from NPS and ARB)???

3:00 Break

## Update on Other WRAP Results

3:30 Possible Topics Include:

- BART
- Other potential haze control strategies (e.g., trading programs and non-BART stationary sources)
- Future emission reductions from non-haze programs (CA SIPs, 4 corners O&G task force, federal locomotive and marine standards, etc.)
- Demonstration of reasonable progress
- Rollback spreadsheet tool
- Status of Section 309 SIPs.

*Please provide any preferences to Lee Alter at [lalter@westgov.org](mailto:lalter@westgov.org).*

5:00 Adjourn

Wednesday, May 24

## Summary of WRAP and Other Relevant Data Regarding Dust

8:30 Dust Emissions

- Construction, agricultural, paved and unpaved roads, and point sources *[TBD]*
- Windblown dust *[TBD]*
- Natural vs anthropogenic sources *[Julia Lester, ENVIRON]*

9:40 Regional Air Quality Modeling *[TBD]*

- Model performance and uncertainty with respect to dust

10:00 Break

10:30 Ambient Monitoring and Data Analysis *[Invited: Marc Pitchford, NOAA or Vic Etyemezian, DRI]*

- Spatial-temporal patterns of dust and its contribution to haze
- Long-term trends
- Receptor modeling (causes of dust during worst dust days)

11:15 Weight of Evidence

- Case studies
- Technical Support System website

12:00 Lunch

1:00 Policy Tools and Discussion of Next Steps

- WRAP Fugitive Dust Handbook
- NM SIP pilot for fugitive dust
- Relevant non-WRAP data (e.g., from NPS and ARB)
- Success stories in controlling dust emissions, NRCS/EQUIP

- Discussion of PM NAAQS proposal (perhaps summarize this and its relevance up front???)

3:00 Adjourn