

Air Quality and Climate Change in Alaska, Idaho, Oregon, and Washington

June 16, 2009

Participants: State, local, and tribal air professionals in Alaska, Idaho, Oregon, and Washington

Location: Seattle, Washington, with satellite sites in Portland, Boise, Anchorage, Juneau, and Spokane tied in through videoconferencing

Conference line: 206-553-4602

Conference Objective: To share the latest information on the projected effects of climate change on air quality in the Pacific Northwest and Alaska; to share the latest information on air quality/GHG or climate change linkages; and to showcase examples of tools and discuss challenges and opportunities related to controlling GHGs while controlling criteria pollutants and air toxics in the Pacific Northwest and Alaska.

Speakers: [\[speaker bios\]](#)

8:00–8:15 a.m. Welcome, Introduction, and Meeting Goals

Rick Albright, Director, Office of Air, Waste and Toxics, EPA Region 10

8:15–8:30 a.m. Meeting logistics, audience/participant best practices and guidelines for videoconferencing and participation

Darrell Anderson, Meeting Facilitator

SESSION 1: CLIMATE IMPACTS ON AIR QUALITY

Session Goal: Review the current state-of-the-science for projected effects of climate change on regional air quality (e.g., impacts of climate change on ozone, PM, fire, toxics), recognizing and allowing for discussion on gaps in the science, and discuss if and how this information should be considered in air quality planning.

Session Moderator: Robert Elleman, Meteorologist, EPA Region 10

8:30–9:00 a.m. Presentation: An overview of projected effects of climate change in the Pacific Northwest and Alaska [\[slides\]](#)

Brian Lamb, Professor, Department of Civil and Environmental Engineering, Washington State University

9:00–10:00 a.m. Panel Discussion—Climate Impacts on Air Quality [\[slides\]](#)

- What are the expected changes in ozone, PM, and mercury in the Pacific Northwest? Do we blame climate change, North American emissions, or transport from other continents?

Brian Lamb

- What can we expect from Asian transport of pollutants to Alaska and the Pacific Northwest in the next 10–50 years? How does this compare to the effects of climate change on air quality? How does climate change modify the magnitude of Asian pollutant transport?

David Reidmiller, Department of Atmospheric Sciences, University of Washington

- How can we develop scenarios for emissions more than 10 years in the future? Are they valuable?

Dan Loughlin, National Risk Management Research Laboratory, EPA Office of Research and Development

- How will forest fires change in the future, what is the relative role of climate change among all the factors controlling future forest fires, and how well do we know this information?

Don McKenzie, Research Landscape Ecologist, Pacific Northwest Research Station, USDA Forest Service

- Will climate and global change present added challenges to our wintertime PM mitigation policies?

Brian Lamb

10:00–10:30 a.m. Break

SESSION 2: GHG, CRITERIA POLLUTANTS, AND AIR TOXICS CO-EFFECTS

Session Goal: Review what is known about the co-effects of controlling GHGs on criteria pollutants and toxic air pollutant emissions and what is known about the co-effects of controlling air toxics or criteria pollutants on GHG emissions and climate change.

Session Moderator: Robert Elleman

10:30–11:00 a.m. Presentation: An overview of what is known about the co-effects of controlling GHGs on criteria pollutants and toxics and what is known about the co-effects of controlling air toxics or criteria pollutants on GHG emissions and climate change. [\[slides\]](#)

William Pennell, Management Coordinator, NARSTO

11:00–12:00 p.m. Panel: GHG, Criteria Pollutants, and Air Toxics Co-Effects [\[slides\]](#)

- How does control of aerosols affect climate change? [\[slides\]](#)

Alice Gilliland, Acting Associate Director for Health, National Exposure Research Laboratory, EPA Office of Research and Development

- What is black carbon, where does it come from, and what is its role in climate change?

Ruby Leung, Climate Physics Laboratory Fellow, Pacific Northwest National Laboratory

- What are the GHG (or climate change mitigation) implications of people in the Northwest using residential wood heating? How well do we know this?

Roel Hammerschlag, Staff Scientist, Stockholm Environment Institute

- How does control of ozone affect climate change?

Alice Gilliland

- How do traditional control measures, particularly stationary source controls for PM, ozone and precursors, and air toxics affect energy use/climate change?

Lisa Conner, Supervisor, Program Design Group, EPA Office of Air Quality Planning and Standards

12:00–1:00 p.m. Lunch

SESSION 3: MULTI-POLLUTANT ISSUES AND STRATEGIES

Session Goal: Discuss state, local, and tribal experiences and current/future challenges with multi-pollutant planning.

Session Facilitator: Darrell Anderson

1:00–1:30 p.m. Presentation: Permitting greenhouse gases under the Clean Air Act—opportunity or disaster? [\[slides\]](#)

*David C. Bray, Special Assistant to the Director, Office of Air, Waste, and
Toxics, EPA Region 10*

1:30–2:30 p.m. Panel Discussion—State, Local, Tribal experiences with Multi-pollutant Air
Quality Management [\[slides\]](#)

- What multi-pollutant air quality management strategies/policies have states, tribes, and locals been exploring or implementing?
- What are the challenges to (e.g., legal, technological, etc.) and opportunities for multi-pollutant air quality management at the state, local, and tribal levels?
- How can multiple pollutants be addressed through permitting activities?

*Andy Ginsburg, Air Quality Division Administrator, Oregon Department of
Environmental Quality*

Martin Bauer, Air Administrator, Idaho Department of Environmental Quality

*Stuart Clark, Air Quality Program Manager, Washington State Department of
Ecology*

Dana Sarff, Air Quality Specialist, Makah Tribe

2:30–3:00 p.m. Break

SESSION 4: MULTI-POLLUTANT PLANNING TOOLS

Session Goal: Review examples of the most up-to-date and readily available air emissions planning and accounting tools that integrate an analysis of climate change impacts to air quality and identify gaps in available analytical tools.

Session Facilitator: Darrell Anderson

3:00–3:30 p.m. Presentation and Q and A: Existing multi-pollutant planning tools and gaps
[\[slides\]](#)

Lisa Conner

SESSION 5: KEY CLIMATE POLICY UPDATES

Session Goal: Provide short updates on recent Federal and regional climate policy developments.

Session Facilitator: Darrell Anderson

3:30–4:15 p.m. Presentation and Q and A: Regional policy updates

- EPA climate policy updates (proposed GHG reporting rule, proposed endangerment finding) [\[slides\]](#)

Claire Schary, Climate Change Policy Advisor, EPA Region 10

- Western Climate Initiative updates [\[slides\]](#)

Stuart Clark

- National Association of Clean Air Agencies Climate updates

Andy Ginsburg

4:15–4:45 p.m. Wrap-up Message and Meeting Evaluation [\[slides\]](#)

Facilitator: Darrell Anderson

*Janis Hastings, Associate Director, Office of Air, Waste and Toxics,
EPA Region 10*