

Interactions of Urban Pollution with the Regional and Global Environment

NASA Goddard Space Flight Center
Laboratory for Atmospheres Workshop
May 7-9, 2002

Location: NASA/GSFC Visitors Center
Soil Conservation Road (follow signs on 193)
Greenbelt, MD

Program Committee: Anne Thompson, Bill Brune, Jim Gleason, Paul Newman, Russ Dickerson

DAY 1, Tues, 7 May 2002

CHAIRS - AM - Newman; PM-Thompson

- 0800 Arrival of Bus from Holiday Inn - Registration
- 0830 Introduction and Welcome from GSFC - Paul Newman, GSFC ACDB (Atmospheric Chemistry and Dynamics Branch)
Logistics - Paul Newman, Mary Floyd
- 0845 Welcome from NASA HQ Program Manager for Tropospheric Chemistry - Jim Gleason
- 0900 Scope of Workshop - Charge - Anne Thompson, GSFC ACDB
- 0915 FIRST PLENARY TALK & Questions
S Pandis, Carnegie-Mellon Univ., Pittsburgh, "Formation and Properties of regional aerosol: Some insights from the Pittsburgh Air Quality Study (PAQS)"
- 1015 Break
- 1045 Contributed Talks on Regional Pollution - 20 mins each, including questions
Ray Hoff, UMBC: "Both sides now - Observations of vertical structure of aerosols from ground and space"
Ted Russell, Georgia Tech: "Quantitative analysis of contributors to regional air pollution in the Southeast"
- 1125 Lunch
- 1300 SECOND PLENARY TALK & Questions
James Meagher, NOAA/Aeronomy Lab: Topic - "Aircraft and ground measurements; Lessons learned from recent integrated ground and aircraft regional campaigns"
- 1400 Contributed Talks - 20 mins each, including questions
Larry Kleinman, BNL: "Ozone production rates and efficiencies in 5 urban areas"
Russ Dickerson, UMCP: "Air Pollution over the mid-Atlantic region: Act locally, think globally"
Bill Stockwell, DRI/NOAA: "What about Nox?"
- 1500 Break
- 1520 Contributed Talks - 20 min
Chip Levy, NOAA/GFDL: "Hemispheric impacts of Asian emissions"
Danny McKenna, NCAR: "Tropospheric ozone production about the Spring Equinox"
- 1600 - 1715 Panel - Regional Observing/Predictive Strategies
Moderator - Russ Dickerson; Rapporteur - Vickie Connors

DAY 2, Wed, 8 May 2002

CHAIRS - AM- Gleason; PM - Brune

- 0830 Contributed Talks on Global Observations & Mechanistic Issues
R V Martin, Harvard: "Satellite observations of ozone precursors from GOME"

- Wallace McMillan, UMBC: “Remote sensing of tropospheric trace gases from ground, air and space”
- David Edwards, NCAR: “Using Terra/MOPITT data in tropospheric chemistry and transport studies”
- Ken Pickering, UMCP: “Regional downscaling of transport & chemistry over central and eastern US”
- 0950 Break
- 1015 THIRD PLENARY TALK & Questions
Greg Carmichael - “Regional Chemical Weather Forecasting in Support of Atmospheric Chemistry Field Experiments”
- 1115 Lunch
- 1245 Contributed Talks on Global Observations & Mechanistic Issues
Manjula Canagaratna, Aerodyne: “Size and composition of local and regional aerosol”
Bob Chatfield/Hanwant Singh, NASA/Ames: “Simple oxidized organics and new radical chemistry of the background troposphere”
- 1325 FOURTH PLENARY TALK & Questions
Ann Marie Eldering, JPL: “Space based measurements: experience and expectations with ATMOS and TES”
- 1425 Break
- 1455 Regional/Global Perspectives - 3 Talks
Mian Chin, GaTech/GSFC: “From regional emission to global atmospheric loading: Intercontinental transport of aerosols in the context of ACE-Asia”
Bob Chatfield, NASA/Ames: “Random samples of vented regional smog are common in the upper troposphere”
Judd Welton, UMBC/GSFC: “Determining the vertical profile of aerosols using sites in the Micro-pulse Lidar Network (MPL-Net)”
- 1555 - 1700 Panel or Discussion - Global Observing/Predictive Strategies
Moderator Doreen Neil; Rapporteur - Jacquelyn Witte.

DAY 3 Thurs, 9 May 2002 CHAIR - Dickerson

- 0830 Other Regional/Urban Perspectives
Russ Dickerson, UMCP: “Atmospheric Chemistry over the Indian Ocean: Lessons from INDOEX”
Roseanne Diab, U Natal, Durban/UMCP/ESSIC: “Perspectives on regional and local ozone pollution over southern Africa”
- 0910 Regional-Global Connections
Prasad Kasibhatla, Duke: “Inverse modeling estimates of regional CO emissions”
Jim Crawford, NASA/LaRC: “Clouds and trace gas trends from TRACE-P”
- 950 Break
- 1020 FIFTH PLENARY TALK - WRAP-UP PERSPECTIVE
Bill Brune
- 1120 Action Items/Closing Remarks - Gleason, Thompson, Newman
- 1150 Adjourn