

## EXTERNAL SEMINAR

AARHUS UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL SCIENCE

FREDERIKSBORGVEJ 399, 4000 ROSKILDE

# 9 NOVEMBER 2015, 13.00-15.00

Venue: D1.46 at Department of Environmental Science

Title:

**Use of CAMx Source Apportionment Modeling to Identify Contributions of Regional Transport and Wildfires to Ozone and Particulate Matter Concentrations**

Abstract (partly):

The contribution of regional transport to elevated ozone and fine particulate matter (PM<sub>2.5</sub>) concentrations has been well established across many regions in Asia, Europe and North America.

However, control measures for reducing the contributions of regional transport are much more difficult to implement because the downwind areas with the high pollution levels frequently don't have jurisdiction over sources in the upwind areas.

In the United State of America (USA), the 1977 Clean Air Act Amendments (CAAA) included language "to establish an effective mechanism for prevention, control and abatement of interstate air pollution" whose goal was to reduce significant contributions of upwind state emissions to downstate ozone and PM<sub>2.5</sub> nonattainment, the so called "good neighbor" provision.

For the eastern USA, the U.S. Environmental Protection Agency (USEPA) implemented the Cross State Air Pollution Rule (CSAPR) that required emission control measures in upwind states that contribute significantly to nonattainment in a downwind state.

USEPA used ozone and PM<sub>2.5</sub> source apportionment modeling tool within the Comprehensive Air-quality Model with extensions (CAMx) photochemical grid model (PGM) to determine which upwind states had a significant contribution to downwind ozone and PM<sub>2.5</sub> nonattainment and were therefore subject to regional controls.

Speaker: Ralph E. Morris, Managing Principal, Air Science, Ramboll Environ

Host: Ole Hertel, DSc, PhD, Professor, Head of Section of Atm. Chem. & Physics

External guests interested in attending the presentation should email Klaus Christensen, [kcc@envs.au.dk](mailto:kcc@envs.au.dk)