PRESENTATIONS BY OWEN R. COOPER, UNIVERSITY OF COLORADO BOULDER


Cooper, O. R., Benefits to uniformity of atmospheric ozone measurements, Invited Oral Presentation, BIPM Accurate Monitoring of Surface Ozone Virtual Workshop, 5-9 October 2020, held worldwide in virtual format due to the Covid-19 pandemic.

Cooper, O. R., How we know tropospheric ozone is increasing (but not everywhere): New data and statistical approaches, Invited virtual seminar, Data Science of the Natural Environment (DSNE), Lancaster University, UK, October 29, 2020.


Cooper, O. R., The Tropospheric Ozone Assessment Report (TOAR): A community-wide effort to quantify tropospheric ozone in a rapidly changing world, seminar, Dept. of Atmospheric and Oceanic Sciences, Peking University, Beijing, July 2, 2018.

Cooper, O. R., The Tropospheric Ozone Assessment Report (TOAR): A community-wide effort to quantify tropospheric ozone in a rapidly changing world, seminar, State Key Joint Laboratory of Environmental Simulation and Pollution Control, Peking University, Beijing, July 3, 2018.


Cooper, O. R., IGAC’s Tropospheric Ozone Assessment Report (TOAR): Facilitating international research on ozone’s impact on public health, vegetation and climate change, Invited seminar, Innovation Center of the Catholic University, Santiago, Chile, March 17.

Cooper, O. R., Ozone pollution in the United States: The success of emissions controls and new challenges from international and stratospheric ozone sources, Invited seminar, Center for Climate and Resilience Research, Santiago, Chile, March 18.


Cooper, O. R., The Tropospheric Ozone Assessment Report: A community-wide effort to quantify tropospheric ozone in a rapidly changing world, invited seminar, Shandong University, Jinan, China, November 22.

Cooper, O. R., The Tropospheric Ozone Assessment Report: A community-wide effort to quantify tropospheric ozone in a rapidly changing world, invited seminar, Hong Kong Polytechnic University, Hong Kong, China, November 24.
2015  Cooper, O. R., Invited Participant in the Transboundary Ozone Pollution Conference, Tenaya Lodge, Yosemite National Park, March 31 – April 2, 2015. Sponsored by the San Joaquin Valley Air Pollution Control District with participation from the NASA Air Quality Applied Sciences Team

Cooper, O. R., Global distribution and trends of tropospheric ozone: An observation-based review, Invited seminar, University of Virginia, Department of Environmental Sciences, October 29, 2015.


Cooper, O. R., Update on trends in background ozone concentrations, Invited, Modeling Air Quality from the Global to Local Scale, NCAR Center Green, Boulder, May 11-15, 2015.


Cooper, O. R., An Overview of IGAC’s Tropospheric Ozone Assessment Report (TOAR) and an update on North American ozone trends, Poster, SPARC Regional Workshop: Chemical and Physical Processes in the Climate System, 9-10 November 2015, NCAR Foothills Laboratory, Boulder.


Cooper, O. R., Status of IAGOS in the USA Working Group, Invited Oral Presentation at the IAGOS Annual Meeting, San Lorenzo del Escorial, Spain, June 12-14, 2013


Cooper, O. R., Long range transport impacts on ozone air quality in the western United States, Invited Seminar Speaker, Department of Atmospheric and Oceanic Sciences, University of Colorado at Boulder, October 28, 2011.


2007 Cooper, O. R., Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer, Invited Seminar Speaker, Atmospheric Science Department, The University of Alabama in Huntsville.

Cooper, O. R., Tropospheric Ozone: Global distribution and radiative forcing, speaker at the NOAA ESRL Theme Presentation: Radiative Forcing of Climate by non-CO2 Atmospheric Gases, NOAA Earth System Research Laboratory, Boulder.


tropospheric ozone and transport pathways on the east and west coasts of the United States, 2004 IGAC Meeting, Christchurch, New Zealand.

2003 **Cooper, O. R.**, Current understanding of vertical and long-range transport through extratropical cyclones, *invited seminar* at the EGS-AGU-EUG Joint Assembly, Nice, France.


**Cooper, O. R.** and A. Stohl, FLEXPART particle dispersion modeling and forecasting during NENA-2004, oral presentation at the 2004 Climate and Air Quality Meeting, University of New Hampshire, Durham.


**Cooper, O.R., invited seminar**, Trace Gas Composition of Mid-Latitude Cyclones over the Western North Atlantic Ocean: A Conceptual Model, invited seminar at Deutsches Zentrum für Luft- und Raumfahrt, Institut für Physik der Atmosphäre, Oberpfaffenhofen, Germany.

**Cooper, O.R., invited seminar**, Trace Gas Composition of Mid-Latitude Cyclones over the Western North Atlantic Ocean: A Conceptual Model, invited seminar at Rudjer Boskovic Institute, University of Zagreb, Croatia.

2000 **Cooper, O. R.**, Trace gas signatures of the airstreams within North Atlantic cyclones - Case studies from the NARE'97 aircraft intensive, seminar presented at the NOAA Aeronomy Laboratory, Boulder, March.


1996 **Cooper, O. R.**, and J. L. Moody, The effects of atmospheric dynamics on ozone mixing ratio at
an eastern U.S. mountain site, (poster) XVIII Quadrennial Ozone Symposium, L'Aquila, Italy, September.