

## **David.D.Parrish, LLC**

### **Consultant for all atmospheric chemistry issues related to air quality and climate change**

4555 13th St. #2E, Boulder CO 80304  
(303) 517-2963  
David.D.Parrish.LLC@gmail.com  
<http://DavidDParrish.com>



### **PROFESSIONAL EXPERIENCE**

Senior Research Scientist (half-time), Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado 2014-present  
Program Lead, Tropospheric Chemistry Group of the Chemical Sciences Division/National Oceanic and Atmospheric Administration (NOAA)/Earth System Research Laboratory 2009-2014  
Research Chemist, NOAA  
1987-2014 (part-time: 1978-1987)  
Department Chair, Department of Chemistry, Metropolitan State College (Denver)  
1986-1987  
Professor, Department of Chemistry, Metropolitan State College (Denver) and University of Illinois at Chicago 1973-1987  
Postdoctoral Research Fellow, Harvard University, Department of Chemistry  
1970-1973

### **EDUCATION**

Ph.D. in physical chemistry, University of California, Berkeley, California - 1970  
B.S. degree in chemistry, Colorado College, Colorado Springs, Colorado - 1966

### **FIELD STUDY COORDINATOR**

California Air Quality and Climate Study (CalNex 2010)  
Intercontinental Transport and Chemical Transformation (ITCT 2002, ICARTT 2004)  
North Atlantic Regional Experiment (NARE 1991, 1993, 1996, 1997)

### **SCIENTIFIC COMMITTEES**

"Synthesis of Policy Relevant Findings from the CalNex 2010 Field Study" - Lead Author of report to California Air Resources Board  
Independent Technical Advisory Committee of the Texas Air Quality Research Program – Member 2010-present  
IGAC Assessment on Impacts of Mega-cities on Air Quality and Climate - Coordinating Chapter lead author for 2011 Report  
Task Force on Hemispheric Transport of Air Pollutants (HTAP) - Coordinating Chapter lead author for 2010 Report

International Global Atmospheric Chemistry (IGAC) Program, Scientific Steering Committee - 2003-2007  
Texas Air Quality Study (TexAQS) Rapid Science Synthesis Team Coordinator – 2006-2007  
NARSTO Emission Inventory Assessment, Steering Committee – 2004-2005 – Author Chapter 7  
NARSTO Tropospheric Ozone Assessment – 2000 - Coauthored two critical review papers

### **JOURNAL EDITORIAL BOARDS**

Atmospheric Environment - 2009-present  
Journal of Atmospheric Chemistry - 2009-present

### **GUEST EDITOR**

*Atmospheric Chemistry and Physics*, CAREBEIJING special issue, 2012  
*Journal Geophysical Research-Atmospheres*, **109(D23)**, 2004; **111(D23)**, 2006;  
**112(D10)**, 2007; **115(D7)**, 2010  
*Atmospheric Environment*, **29(21)**, 1995; **30(12)**, 1996

### **AWARDS**

Fellow - American Geophysical Union: 2014  
Colorado Governor's Award for High-Impact Research for science team involved with research on impacts of oil and gas activities on the atmosphere- October, 2014.  
Colorado Governor's Award for High-Impact Research for science team involved with the Deepwater Horizon oil spill flights by the NOAA P-3 aircraft - October, 2012.  
OAR Outstanding Scientific Paper Award: 2000, 2003, 2005  
Department of Commerce Silver Medal Award: 2004

### **PROFESSIONAL SOCIETIES**

American Geophysical Union  
American Association for the Advancement of Science

### **PUBLICATIONS**

Included in "The World's Most Influential Researchers" by ISI Thompson Scientific (<http://isihighlycited.com/>), which features the most cited authors in the geosciences  
More than 200 peer-reviewed publications (List available on request).  
h-index: 60

### **SELECTED INVITED PRESENTATIONS (2010-2014)**

"Air Pollution in Developing Mega-Cities - Something Old, Something New - Lessons from Los Angeles" **California Air Resources Board Chair's Lecture Series** in Sacramento, California on August 7, 2014  
"Systematic Comparison Of Long-Term Tropospheric Ozone Changes Between Observations And Models" at the **IGAC/SPARC Chemistry-Climate Model Initiative (CCMI) Workshop** in Lancaster, England on 20-22 May 2014.

*“Air Pollution in Developing Mega-cities: Something Old, Something New”* College of Environmental Sciences and Engineering, Peking University Seminar in Beijing, China on 10 April 2014.

*“Air Pollution in Developing Mega-cities: Something Old, Something New”* at the Monsoon Asia Integrated Regional Study (MAIRS) Open Science Conference in Beijing, China on 7-10 April 2014.

*“Long-Term Baseline Ozone Changes: Disagreement between 3 ACCMIP/CMIP5 Models and Observations”* at the American Geophysical Union Fall Meeting in San Francisco, California on 9-13 December 2013.

*“Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry-climate models and observations at northern mid-latitudes”* ESRL/CSD Seminar in Boulder, Colorado on 16 October 2013.

*“Urban Air Quality Trends in a Global Context”* at the RISUD International Workshop on Regional Air Quality - Linking Science to Policy in Hong Kong, China on 15 June 2013.

*“Decadal Trends of VOC Toxics in the Los Angeles Urban Area”* at the CRC Mobile Source Air Toxics Workshop in Sacramento, California on 4-6 February 2013.

*“Ozone in the Anthropocene: Lessons from urban to remote measurements at northern mid-latitudes”* Keynote speech at the The 12th International Global Atmospheric Chemistry (IGAC) Science Conference: Atmospheric Chemistry in the Anthropocene in Beijing, China on 17-21 September 2012.

*“Megacity air quality: the view from satellites and other platforms”* at the meeting entitled Towards an Integrated Observing System for South America: Air Quality Assessment and Forecasting in Mega Cities in Santiago, Chile on 9-12 January 2012.

*“Early Results from the CalNex 2010 Field Study”* at the CENRS Air Quality Research Subcommittee in Washington DC on 13 October 2011.

*“Urban air quality trends in a global context”* at the Final Symposium of the EU FP7 project MEGAPOLI "Megacities: Emissions, urban, regional and Global Atmospheric POLLution and climate effects, and Integrated tools for assessment and mitigation" in Paris, France on 26-28 September 2011.

*“Transported Background Ozone: Impact on Air Quality at U.S. West Coast”* at the Workshop on Policy Relevant Ozone Background Ozone Concentrations in the United States in Austin, Texas on 30 March 2011.

*“Past, present and future evolution of urban air quality in developed and developing cities of the world”* at The Mainland China-Taiwan-Pacific Rim Conference on Climate and Air Quality in Kona, Hawaii on 14-19 March 2011.

*“Past, present and future evolution of urban air quality in developed and developing cities of the world”* at the 2<sup>nd</sup> Xiamen International Forum on Urban Environment in Xiamen, China on 10-12 December 2010.

*“Understanding Historical Ozone Trends at Northern Mid-Latitudes”* at the 19th International Emission Inventory Conference “Emission Inventories – Informing Emerging Issues” in San Antonio, Texas on 28-30 September 2010.

*“Comparing Chemical Transport Model Results with Measurements: Some Illuminating Approaches”* NCAR/NESL Atmospheric Chemistry Division Seminar on 26 April 2010.