

Steven D. Kohl

Associate Research Scientist
Desert Research Institute
Division of Atmospheric Sciences
2215 Raggio Parkway
Reno, NV 89512-1095

Tel: 775-674-7056
Fax: 775-674-7009
email: steve.kohl@dri.edu

Education

M.S.	1996	University of Nevada, Las Vegas	Environmental Analytical Chemistry
B.S.	1995	University of Nevada, Las Vegas	Chemistry
	1985	Chanute Technical Training Center	Electronics Technician Training
		U.S. Air Force	

Continuing Education

2002 ACS Short Course "Microwave Enhanced Sample Preparation for General, Analytical, and Environmental Applications"
2005 Yucca Mountain Air Quality Program Field Equipment Operations Training

Professional Interest

As an Associate Research Scientist and Laboratory Manager for the Environmental Analysis Facility (EAF) at the Desert Research Institute (DRI), Mr. Kohl's responsibilities include: assisting in proposal development; preparing budget estimates; prioritizing projects for daily analysis; performing chemical analysis of aerosol samples by x-ray fluorescence; conducting data validation; and preparing reports. He maintains the field sampling equipment, conducts training on the operation of different types of aerosol sampling systems, provides instrument trouble-shooting, coordinates sample shipping and receiving, and manages field studies. Mr. Kohl has performed numerous sampling campaigns including ambient sampling, source tests, and stack sampling. Mr. Kohl performs complete system audits for both gas and particle measuring systems and meteorological instruments at field sites. He supervises IMPROVE filter preparation and archiving and has conducted data validation for IMPROVE carbon analysis since 2004.

Before coming to DRI, he developed fluorescence-based immunochemical assays for use in fiber optic biosensors for environmental monitoring applications for the U.S. Environmental Protection Agency. While serving in the U.S. Air Force, Mr. Kohl was responsible for the installation, maintenance, modification, and flight inspection of commercial and Air Force meteorological and navigational systems.

Mr. Kohl has been an instructor for the Chemistry 100 class and laboratory at the Truckee Meadows Community College

Professional Experience

2006 to present	Associate Research Scientist, Desert Research Institute, Division of Atmospheric Sciences, Reno, NV
2000 to 2006	Assistant Research Scientist, Desert Research Institute, Division of Atmospheric Sciences, Reno, NV
1996 to 2000	Staff Analytical Chemist, Desert Research Institute, Division of Atmospheric Sciences, Reno, NV.
1995 to 1996	Research Chemist, U.S. Environmental Protection Agency, Las Vegas, NV.
1993 to 1995	Field Technician, Desert Research Institute, Las Vegas, NV.
1984 to 1993	Electronics Technician, U.S. Air Force.

Honors and Awards

- Best Thesis Award. College of Science and Mathematics, University of Nevada, Las Vegas, 1996.
- Norwalk-Notre Dame Prize in Chemistry. University of Nevada, Las Vegas, 1994.

Publications

- Wang, X., Chow, J. C., Kohl, S. D., Percy, K. E., Legge, A. H., Watson, J. G., 2016: Real-world emission factors for the Caterpillar 797B during mining operations, *Particuology*, In Press
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- Chow, J. C., Yang, X., Wang, X., Kohl, S. D., Hurbain, P. R., Chen, L.-W.A., Watson, J. G., 2015: Characterization of Ambient PM10 Bioaerosols in a California Agricultural Town, *Aerosol Air Qual. Res.*, 15 (4), 1433-1447.
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- Pant, P., Shukla, A., Kohl, S. D., Chow, J. C., Watson, J. G., Harrison, R. M., 2015: Characterization of ambient PM2.5 at a pollution hotspot in New Delhi, India and inference of sources, *Atmos. Environ.*, 109, 178-189.
- Wang, X., Chow, J. C., Kohl, S. D., Percy, K. E., Legge, A. H., Watson, J. G., 2015: Characterization of PM2.5 and PM10 fugitive dust source profiles in the Athabasca Oil Sands Region, *J. Air & Waste Manage. Assoc.*, 65 (12), 1421-1433.
- Wang, X., Chow, J. C., Kohl, S. D., Yatavelli, L., Percy, K. E., Legge, A. H., Watson, J. G., 2015: Wind erosion potential for fugitive dust sources in the Athabasca Oil Sands Region, *Aeolian Research*, 18, 121-134.
- Samburova, V., Hallar, A., Mazzoleni, L. R., Saranjampour, P., Lowenthal, D. H., Kohl, S. D., Zielinska, B. K., 2013: Composition of water-soluble organic carbon in nonurban atmospheric aerosol collected at the Storm Peak Laboratory, *Environ. Chem*, 10, 370-380.
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- Engelbrecht, J. P., Gillies, J. A., Etyemezian, V. R., Kuhns, H. D., Baker, S. E., Zhu, D., Nikolich, G., Kohl, S. D., 2012: Controls on mineral dust emissions at four arid locations in the western USA, *Aeolian Res.*, 6, 41-54.
- Mazzoleni, L. R., Saranjampour, P., Dalbec, M. M., Hallar, A., Zielinska, B. K., Lowenthal, D. H., Kohl, S. D., 2012: Identification of Water-Soluble Organic Carbon in Nonurban Aerosols using Ultrahigh-Resolution FT-ICR Mass Spectrometry: Organic Anions, *Environ. Chem.*, 9 (3), 285-297.
- Wang, X., Watson, J. G., Chow, J. C., Gronstal, S. B., Kohl, S. D., 2012: An Efficient Multipollutant System for Measuring Real-World Emissions from Stationary and Mobile Sources, *Aerosol Air Qual. Res.*, 12 (2), 145-160.
- Watson, J. G., Chow, J. C., Chen, L.-W.A., Kohl, S. D., Casuccio, G. S., Lersch, T. L., Langston, R., 2012: Elemental and morphological analyses of filter tape deposits from a beta attenuation monitor, *Atmos. Res.*, 106, 181-189.
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Books/Chapters

- Watson, J. G., Chow, J. C., Kohl, S. D., Yatavelli, L., Wang, X., 2014: Windblown fugitive dust characterization in the oil sands region, *WBEA@Work*, 7-13.
- Wang, X., Watson, J. G., Chow, J. C., Kohl, S. D., Chen, L.-W.A., Sodeman, D., Legge, A., Percy, K., 2012: Measurement of real-world stack emissions with a dilution sampling system, In *Alberta Oil Sands: Energy, Industry, and the Environment*, 171-192, Elsevier Press: Amsterdam, The Netherlands.
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Reports

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- Wang, X., Kohl, S. D., Chow, J. C., Watson, J. G., 2014: Progress report for Tier II heavy hauler emission measurement, Desert Research Institute: Reno, NV.
- Watson, J. G., Chow, J. C., Wang, X., Kohl, S. D., 2014: Windblown fugitive dust characterization in the Athabasca Oil Sands Region, Desert Research Institute: Reno, NV.
- Watson, J. G., Chow, J. C., Wang, X., Kohl, S. D., 2014: Chemical source profiles for geological dust samples from the Athabasca Oil Sands Region, Desert Research Institute: Reno, NV.
- Green, M. C., Wang, X., Watson, J. G., Chow, J., Kohl, S. D., 2013: Spatial distribution of wintertime PM 2.5 in Sparks, NV: Analysis of air quality and meteorological data, Desert Research Institute: Reno, NV.
- Watson, J. G., Chow, J. C., Wang, X., Kohl, S. D., Gronstal, S. B., Zielinska, B. K., 2013: Measurement of real-world stack emissions in the Athabasca Oil Sands Region with a dilution sampling system during March, 2011, Desert Research Institute: Reno, NV, USA.
- Watson, J. G., Chow, J. C., Wang, X., Kohl, S. D., Sodeman, D., 2013: Measurement of real-world stack emissions in the Athabasca Oil Sands Region with a dilution sampling system during August, 2008, Desert Research Institute: Reno, NV, USA.
- Watson, J. G., Chow, J. C., Wang, X., Lowenthal, D. H., Kohl, S. D., Gronstal, S. B., 2013: Characterization of real-world emissions from nonroad mining trucks in the Athabasca Oil Sands Region during October, 2010, Desert Research Institute: Reno, NV.
- Watson, J. G., Chow, J. C., Wang, X., Lowenthal, D. H., Kohl, S. D., Gronstal, S. B., 2013: Characterization of real-world emissions from nonroad mining trucks in the Athabasca Oil Sands Region during October, 2010, Wood Buffalo Environmental Association: Ft. McMurray, AL.
- Watson, J. G., Chow, J. C., Wang, X., Zielinska, B. K., Kohl, S. D., Gronstal, S. B., 2013: Characterization of real-world emissions from nonroad mining trucks in the Athabasca Oil Sands Region during September, 2009, Desert Research Institute: Reno, NV.
- Watson, J. G., Chow, J. C., Chen, L.-W.A., Green, M. C., Kohl, S. D., 2011: Wintertime PM 2.5 source contributions in Reno, NV, Desert Research Institute: Reno, NV.
- Watson, J. G., Chow, J. C., Chen, L.-W.A., Green, M. C., Kohl, S. D., 2011: Wintertime PM_T 2.5 !! source contributions in Reno, NV, Desert Research Institute.
- Watson, J. G., Chow, J. C., Chen, L.-W.A., DuBois, D. W., Kohl, S. D., Trimble, D. L., 2008: Monitoring and data analysis for the Minnesota Particulate Matter 2.5 (PM_{2.5}) Study, Desert Research Institute.
- Watson, J. G., Chow, J. C., Chen, L.-W.A., Kohl, S. D., 2007: Non-destructive XRF and SEM analyses on beta attenuation filters for elemental concentrations at the Craig Road monitor, Desert Research Institute.
- Chow, J.C.; Watson, J.G.; Doraiswamy, P.; Chen, L.-W.A.; Sodeman, D.A.; Ho, S.S.H.; Tropp, R.J.; Kohl, S.D.; Trimble, D.L.; and Fung, K.K. (2006). Climate change - Characterization of black carbon and organic carbon air pollution emissions and evaluation of measurement methods, Phase I, Draft interim progress report. Report No. DRI 04-307. Prepared for California Air Resources Board, Sacramento, CA, by Desert Research Institute, Reno, NV.
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- Chow, J.C.; Zielinska, B.; Watson, J.G.; and Kohl, S.D. (2003). Tong Liang PM_{2.5} Characterization Study: Annual Report. Prepared for Dept. of Environmental Health Sciences, Columbia University, New York, NY, by Desert Research Institute, Reno, NV.
- Tropp, R.J.; Engelbrecht, J.P.; Lowenthal, D.H.; Kohl, S.D.; Dickerson, A.L.; DuBois, D.W.; Chow, J.C.; Watson, J.G.; Countess, R.J.; and Countess, S.J. (2003). Assessment of PM_{2.5} chemical speciation results for Texas: Part 1. Report No. 6470-665-2925.1D1. Prepared for Texas Commission on Environmental Quality, Austin, TX, by Desert Research Institute, Reno, NV.
- Veranth, J.M.; Perry, K.; Pardyjak, E.; Labban, R.; Seshadri, G.; Yin, F.; Veranth, M.; Watson, J.G.; Chow, J.C.; Kohl, S.D.; and Engelbrecht, J.P. (2003). Characterization of PM_{2.5} dust emissions from training/testing range operations - Annual Report 2003. Report No. CP1190. Prepared for Strategic Environmental Research and Development Program, Washington, DC, by University of Utah, Salt Lake City, UT.
- Chow, J.C.; Watson, J.G.; Crow, D.; Kohl, S.D.; Kuhns, H.D.; Etyemezian, V.; and Engelbrecht, J.P. (2002). Source profiles for the Big Bend Regional Aerosol Visibility and Observational (BRAVO) Source Characterization Study, Draft report. Prepared for CIASTA, NOAA, Las Vegas, NV, by Desert Research Institute, Reno, NV.
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- Etyemezian, V.; Kuhns, H.D.; Gillies, J.A.; Green, M.C.; Chow, J.C.; Kohl, S.D.; and Watson, J.G. (2002). Treasure Valley road dust study, Final report. Prepared for Idaho Dept. of Environmental Quality, Boise, ID, by Desert Research Institute, Las Vegas, NV.
- Veranth, J.M.; Pardyjak, E.; Seshadri, G.; Labban, R.; Watson, J.G.; Chow, J.C.; Etyemezian, V.; and Kohl, S. (2002). Characterization of PM_{2.5} dust emissions from training/testing range operations, Annual report. Report No. CP1190. Prepared for U.S. Department of Defense Strategic Environmental Research and Development Program, Washington, DC, by University of Utah, Salt Lake City, UT.

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Conferences and Presentations

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- Chow, J. C., Watson, J. G., Wang, X., Trimble, D. L., Kohl, S. D., 2015: Update of IMPROVE Carbon Analysis, 2015 IMPROVE Steering Committee Meeting: Grand Canyon, AZ, November 3, 2015.
- Kohl, S. D., Chow, J. C., Watson, J. G., Wang, X., 2015: Energy Dispersive XRF Analysis of Ambient and Industrial Source Air Filters, 64th Annual Denver X-Ray Conference: Denver, CO, August 7, 2015.
- Wang, X., Kohl, S. D., Gronstal, S. B., Chow, J. C., Watson, J. G., 2015: Emission and Chemical Characterization of Fugitive Dust in the Athabasca Oil Sands Region, Invited talk at University of Macau: Macau, China, February 6, 2015.
- Wang, X., Watson, J. G., Chow, J. C., Kohl, S. D., Percy, K., Legge, A., 2015: Emission and Chemical Characterization of Fugitive Dust in the Athabasca Oil Sands Region, Joint Industry-AEMERA Workshop on Fugitive Emissions: Canada, June 2, 2015.
- Watson, J. G., Chow, J. C., Wang, X., Kohl, S. D., 2015: Windblown Dust Suspension Potential for Different Surfaces, Institute of Environmental Engineering, National Sun Yat-sen University: Kaohsiung, Taiwan, May 4, 2015.
- Watson, J. G., Chow, J. C., Wang, X., Trimble, D. L., Kohl, S. D., 2015: Temperature Calibration of Thermal/Optical Carbon Analyzer, IMPROVE Steering Committee Meeting: Grand Canyon, AZ
- Watson, J. G., Wang, X., Kohl, S. D., Yatavelli, L., 2015: Dust Source Characterization, Oil Sands Monitoring Symposium: Edmonton, Alberta, Canada, February 24, 2015.
- Chow, J. C., Watson, J. G., Wang, X., Kohl, S. D., Sumlin, B. J., Gronstal, S. B., Mayorga, S. R., Chen, L.-W.A., 2014: Equivalence in OC and EC between Single- and Multi-wavelength Carbon Analyzers, Desert Research Institute Science Talks: Reno, NV, October 27, 2014

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- Wang, X., Watson, J. G., Chow, J. C., Kohl, S. D., 2014: Fugitive Dust Characterization in the Athabasca Oil Sands Region, Presented at Beijing Municipal Research Institute of Environmental Protection: Beijing, China, November 18, 2014.
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