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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 U.S. Air Force	Electronics Technician Training

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 supervisor 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 blank subtraction, error propagation, and 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. 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. 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 until he was honorably discharged with the rank of Staff Sergeant and a Top Secret security clearance.

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

- Chow, J.C.; Watson, J.G.; DuBois, D.W.; Green, M.C.; Lowenthal, D.H.; Kohl, S.D.; Egami, R.T.; Gillies, J.A.; Rogers, C.F.; Frazier, C.A.; and Cates, W. (1998). Middle- and neighborhood-scale variations of PM₁₀ source contributions in Las Vegas, Nevada. In *Proceedings, Health Effects of Particulate Matter in Ambient Air*, J.J. Vostal, Ed. Air and Waste Management Association, Pittsburgh, PA, pp. 443-460.
- Chow, J.C.; Watson, J.G.; Green, M.C.; Lowenthal, D.H.; DuBois, D.W.; Kohl, S.D.; Egami, R.T.; Gillies, J.A.; Rogers, C.F.; Frazier, C.A.; and Cates, W. (1999). Middle- and neighborhood-scale variations of PM₁₀ source contributions in Las Vegas, Nevada. *J. Air Waste Manage. Assoc.*, **49**(6):641-654.
- Chow, J.C.; Lowenthal, D.H.; Watson, J.G.; Kohl, S.D.; Hingsvark, B.A.; Hackett, E.I.; and McCormack, J.K. (2000). Light absorption by black sand dust. *Appl. Opt.*, **39**(27):4232-4236.
- Kuhns, H.D.; Bohdan, V.; Chow, J.C.; Etyemezian, V.; Green, M.C.; Herlocker, D.; Kohl, S.D.; McGown, M.R.; Ramsdell, J.; Stockwell, W.R.; Toole, M.; and Watson, J.G. (2003). The Treasure Valley Secondary Aerosol Study I: Measurements and equilibrium modeling of inorganic secondary aerosols and precursors for southwestern Idaho. *Atmos. Environ.*, **37**(4):511-524.
- Fraser, M.P.; Yue, Z.W.; Tropp, R.J.; Kohl, S.D.; and Chow, J.C. (2002). Molecular composition of organic fine particulate matter in Houston, TX. *Atmos. Environ.*, **36**(38):5751-5758.
- Chow, J.C.; Watson, J.G.; Kuhns, H.D.; Etyemezian, V.; Lowenthal, D.H.; Crow, D.J.; Kohl, S.D.; Engelbrecht, J.P.; and Green, M.C. (2004). Source profiles for industrial, mobile, and area sources in the Big Bend Regional Aerosol Visibility and Observational (BRAVO) Study. *Chemosphere*, **54**(2):185-208.

Reports

- Watson, J.G.; Chow, J.C.; Rogers, C.F.; Green, M.C.; Kohl, S.D.; Frazier, C.A.; Robinson, N.F.; and DuBois, D.W. (1997). Annual report for the Robbins Particulate Study - October 1995 through September 1996. Report No. 7100.3F2. Prepared for VERSAR Inc., Lombard, IL, by Desert Research Institute, Reno, NV.
- Tropp, R.J.; Kohl, S.D.; Chow, J.C.; and Frazier, C.A. (1998). Final report for the Texas PM_{2.5} sampling and analysis study. Report No. 6570-685-7770.1F. Prepared for City of Houston, Bureau of Air Quality Control, Houston, TX, by Desert Research Institute, Reno, NV.

- Watson, J.G.; Chow, J.C.; Kohl, S.D.; Kuhns, H.D.; Robinson, N.F.; Frazier, C.A.; and Etyemezian, V. (1999). Annual report for the Robbins Particulate Study: October 1996 through September 1997. Report No. 7100.4F3. Prepared for VERSAR, Inc., Lombard, IL, by Desert Research Institute, Reno, NV.
- Kuhns, H.D.; Etyemezian, V.; Stockwell, W.R.; Kohl, S.D.; Green, M.C.; Watson, J.G.; and Chow, J.C. (2000). Treasure Valley secondary aerosol study - final report. Prepared for Idaho Division of Environmental Quality, Boise, ID, by Desert Research Institute, Las Vegas, NV.
- Watson, J.G.; Chow, J.C.; Kohl, S.D.; Kuhns, H.D.; Robinson, N.F.; Frazier, C.A.; and Etyemezian, V. (2000). Annual report for the Robbins Particulate Study - October 1997 through September 1998. Prepared for Versar Inc., Lombard, IL, by Desert Research Institute, Reno, NV.
- 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.
- Chow, J.C.; Watson, J.G.; Kohl, S.D.; Gonzi, M.P.; and Chen, L.-W.A. (2002). Measurements and validation for the twelve month particulate matter study in Hong Kong. Prepared for Hong Kong Environmental Protection Department, Wan Chai, Hong Kong, by Desert Research Institute, Reno, NV.
- 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.
- 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.
- Kuhns, H.D.; Chang, M.C.; Chow, J.C.; Etyemezian, V.; Chen, L.-W.A.; Nussbaum, N.J.; Nathagoundenpalayam, S.K.; Trimble, T.C.; Kohl, S.D.; MacLaren, M.; Abu-Allaban, M.; Gillies, J.A.; and Gertler, A.W. (2004). DRI Lake Tahoe Source Characterization Study. Prepared for California Air Resources Board, Sacramento, CA, by Desert Research Institute, Reno, NV.
- Veranth, J.M.; Perry, K.; Pardyjak, E.; Labban, R.; Yin, F.; Veranth, M.; Watson, J.G.; Chow, J.C.; Etyemezian, V.; Kohl, S.; and Engelbrecht, J. (2004). Characterization of PM_{2.5} dust emissions from training/testing range operations - Annual report. Report No. CP1190. Prepared for Strategic Environmental Research and Development Program, Washington DC, by University of Utah, Salt Lake City, UT.
- Chang, M.C.; Chow, J.C.; Kohl, S.; Voepel, H.; and Watson, J.G. (2005). Sampling and analysis for the Lake Tahoe atmospheric deposition study. Final report. Prepared for California Air Resources Board, Sacramento, CA, by Desert Research Institute, Reno, NV.
- Chow, J.C.; Chen, L.-W.A.; Lowenthal, D.H.; Doraiswamy, P.; Park, K.; Kohl, S.; Trimble, D.L.; and Watson, J.G. (2005). California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS) - Initial data analysis of field program measurements, draft final report. Report No. 2497. Prepared for California Air Resources Board, Sacramento, CA, by Desert Research Institute, Reno, NV.
- Kohl, S.D. (2005). CRPAQS filter measurements field program. Prepared for California Air Resources Board, Sacramento, CA, by Desert Research Institute, Reno, NV.
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- 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.