

## KEVIN D. PERRY

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### EDUCATION

1995 Ph.D., University of Washington, Atmospheric Sciences  
1990 B.S., Iowa State University of Science and Technology, Meteorology (Honors)

### CURRENT POSITION

2008 – present Associate Professor, Department of Atmospheric Sciences, University of Utah

### PREVIOUS PROFESSIONAL EXPERIENCE

2011 – 2018 Chair, Department of Atmospheric Sciences, University of Utah  
2002 – 2008 Assistant Professor, Department of Atmospheric Sciences, University of Utah  
1999 – 2001 Assistant Professor, Meteorology Department, San José State University  
1997 – 2008 Co-Director, Determination of Extinction and Long-range Transport of Aerosols (DELTA) Research Group, Department of Chemical Engineering, University of California, Davis  
1995 – 1998 Postdoctoral Researcher, Crocker Nuclear Laboratory, University of California, Davis  
1990 – 1994 Research/Teaching Assistant, Department of Atmospheric Sciences, University of Washington  
1989 – 1990 Student President, College of Sciences and Humanities, Iowa State University of Science and Technology  
1988 – 1989 Undergraduate Research Assistant, Department of Geologic and Atmospheric Sciences, Iowa State University of Science and Technology

### RESEARCH AND SCHOLARLY INTERESTS

Air Pollution and Atmospheric Chemistry: identification of the sources, sinks, transport, optical properties, climatic impacts, and health effects of atmospheric particulate matter; transport and deposition of atmospheric mercury to aquatic ecosystems; intercontinental bacterial transport on mineral dust particles; development of instrumentation and analytical techniques to measure the size- and time-resolved elemental composition of airborne particulate matter

### HONORS AND AWARDS

*Career & Professional Development Center Faculty Recognition Award*, University of Utah, 2018  
*Utah Medical Association Environmental Health Award*, 2015  
*University Early Career Teaching Award*, University of Utah, 2006  
*Outstanding Student Paper Award*, American Geophysical Union Spring Conference, 1994  
*Outstanding Leadership Award*, College of Sciences and Humanities, Iowa State University of Science and Technology, 1990

**SUMMARY OF TEACHING EXPERIENCE****Courses Taught at the University of Utah (2002 – present)**

<b>Course</b>	<b>Title</b>	<b>Semesters Taught</b>
ATMOS 1010	Severe and Unusual Weather	Sp10, F10, Sp11, F11, Sp12, Sp13, F13, F15, Sp16, F16, Sp17
ATMOS 3000	Professional Development in the Atmospheric Sciences	F13
ATMOS 3100*	Atmospheric Chemistry and Air Pollution	Sp03, Sp04, Sp05, Sp06, Sp07, Sp08, F10, F12
ATMOS 3410	Meteorological Instrumentation and Computing	F03, F04, F05, F06, F07, F08, F09
HONOR 2750*	Energy, Water, Air, and Metals: Sustainable Use and Development	Sp18, Sp20
HONOR 3700*	Air Quality, Health, and Society Praxis Lab	F14, Sp15
ATMOS 3910*	Special Topics: Ute Weather Center Interns	Sp15, F15, Sp16, F16, Sp17
ATMOS 5000	Introduction to Atmospheric Science	F03, F04, F06, F08, F12, F15, F17, F19
ATMOS 5210	Physical Meteorology	Sp02
ATMOS 5900	Capstone Experience	F14, Sp15, F15
ATMOS 6020	Fundamentals of Physical Meteorology	F02, F05
ATMOS 7980	Graduate Seminar	Sp11, Sp14, Sp15

\* Denotes the development of a new course

**SUMMARY OF STUDENT TEACHING EVALUATIONS (2005 - present)**

<b>Semester /Yr</b>	<b>Course Number/Title</b>	<b># Students</b>	<b>Overall Course Effectiveness Rating (Max = 6.0)</b>	<b>Overall Instructor Effectiveness Rating (Max = 6.0)</b>
F19	ATMOS 5000: Introduction to Atmospheric Sciences (Flipped)	21	5.30	5.79
Sp18	Honors 2750: Energy, Water, Air, and Metals: Sustainable Use and Development	30	4.91	5.46
F17	ATMOS 5000: Introduction to Atmospheric Sciences (Flipped)	12	5.83	5.90
Sp17	ATMOS 1010: Severe and Unusual Weather	38	5.50	5.54
F16	ATMOS 1010: Severe and Unusual Weather (FlexU Schedule)	19	5.23	5.77
F16	ATMOS 1010: Severe and Unusual Weather	58	5.31	5.61
Sp16	ATMOS 1010: Severe and Unusual Weather	49	5.35	5.62
F15	ATMOS 1010: Severe and Unusual Weather	49	5.51	5.63
F15	ATMOS 5000: Introduction to Atmospheric Science (Flipped)	13	5.41	5.61
Sp15	Honors 3700: Air Quality, Health, and Society Praxis Lab	10	5.88	6.00
F14	Honors 3700: Air Quality, Health, and Society Praxis Lab	10	5.69	5.76
F13	ATMOS 3000: Professional Development	19	5.11	5.11
F13	ATMOS 1010: Severe and Unusual Weather	60	5.44	5.55
Sp13	ATMOS 1010: Severe and Unusual Weather	54	5.22	5.56
F12	ATMOS 3100: Atmospheric Chemistry and Air Pollution	19	5.30	5.50
F12	ATMOS 5000: Introduction to Atmospheric Science	10	5.50	5.88
Sp12	ATMOS 1010: Severe and Unusual Weather	29	5.12	5.35
F11	ATMOS 1010: Severe and Unusual Weather	50	5.30	5.62
Sp11	ATMOS 1010: Severe and Unusual Weather	29	5.14	5.41
F10	ATMOS 3100: Atmospheric Chemistry and Air Pollution	22	5.33	5.22
F10	ATMOS 1010: Severe and Unusual Weather	57	4.52	4.92
Sp10	ATMOS 1010: Severe and Unusual Weather	43	4.64	4.80
F09	ATMOS 3410: Meteorological Instrumentation and Computing	6	5.60	6.00
Sp09	METEO 3100: Atmospheric Chemistry and Air Pollution	10	5.33	6.00
F08	METEO 3110: Introduction to Atmospheric Science	11	5.89	5.89
F08	METEO 3410: Meteorological Instrumentation and Computing	11	5.50	5.80
Sp08	METEO 3100: Atmospheric Chemistry and Air Pollution	<5	NA	NA
F07	METEO 3410: Meteorological Instrumentation and Computing	9	5.78	6.00
Sp07	METEO 3100: Atmospheric Chemistry and Air Pollution	13	5.85	5.92
F06	METEO 3110: Introduction to Atmospheric Science	15	5.42	5.75
F06	METEO 3410: Meteorological Instrumentation and Computing	16	5.29	5.57
Sp06	METEO 3100: Atmospheric Chemistry and Air Pollution	18	5.29	5.82
F05	METEO 3410: Meteorological Instrumentation and Computing	21	4.78	5.33
F05	METEO 6020: Fundamentals of Physical Meteorology	11	5.78	5.89
			<b>Avg = 5.37</b> <b>Stdev = 0.34</b>	<b>Avg = 5.62</b> <b>Stdev = 0.30</b>

Prior to Fall 2005, the Department of Atmospheric Sciences did not use the standard university student teaching evaluation forms. As a result, the results for 2002-2005 are on a 7 point scale as opposed to the 6 point scale used subsequently.

### SUMMARY OF STUDENT TEACHING EVALUATIONS (2002 – 2005)

Semester	Course Number	Title of Course	# Students	SAC Overall Score (Max = 7.0)
Sp05	METEO 3100	Atmospheric Chemistry and Air Pollution	22	6.64
F04	METEO 3410	Meteorological Instrumentation and Computing	10	6.25
F04	METEO 3110	Introduction to Atmospheric Science	11	6.67
Sp04	METEO 3100	Atmospheric Chemistry and Air Pollution	9	6.78
F03	METEO 3410	Meteorological Instrumentation and Computing	10	6.67
F03	METEO 3110	Introduction to Atmospheric Science	11	6.33
Sp03	METEO 3100	Atmospheric Chemistry and Air Pollution	11	6.45
F02	METEO 6020	Fundamentals of Physical Meteorology	5	7.00
Sp02	METEO 5210	Physical Meteorology	7	6.71
				<b>Avg = 6.61</b>

### GRADUATE STUDENT SUPERVISION HISTORY

Luca Delle Monache, M.S., Meteorology, 2002  
 Jennifer Esker, M.S., Meteorology, 2007  
 Scott Robertson, M.S., Meteorology, 2010  
 Lance Richards, M.S., Meteorology, 2010  
 Joel Lisonbee, M.S., Atmospheric Sciences, 2010  
 Melissa Maestas, M.S., Atmospheric Sciences, 2011  
 Maura Hahnenberger, Ph.D. Atmospheric Sciences, 2014  
 Melissa Maestas, Ph.D., Atmospheric Sciences, 2016

### GRADUATE STUDENT SUPERVISORY COMMITTEE SERVICE

Luca Delle Monache, M.S., Meteorology, 2002  
 Daniel Zumpfe, M.S., Meteorology, 2004  
 Raed Labban, Ph.D., **Pharmacology and Toxicology**, 2005  
 Ruiyu Sun, Ph.D., Meteorology, 2006  
 Chuanfeng Zhao, Ph.D., Meteorology, 2007  
 Lance Avey, M.S., Meteorology, 2008  
 Heather Holmes, Ph.D., **Mechanical Engineering**, 2010  
 Kyle Tietze, M.S., Atmospheric Sciences, 2011  
 Vasu Gangrade, M.S., **Mining Engineering**, 2014  
 William Farr, PMST, **Environmental Science**, 2014  
 Michael Peterson, Ph.D., Atmospheric Sciences, 2014  
 Lacey Holland, Ph.D., Atmospheric Sciences, 2016  
 Shixuan Zhang, Ph.D., Atmospheric Sciences, 2017  
 Ross Petersen, M.S., Atmospheric Sciences, 2018  
 Kevin Craft, M.S., Atmospheric Sciences, 2018  
 Naomi Riches, Ph.D., **Occupational and Environmental Health**, 2019  
 Dien Wu, Ph.D., Atmospheric Sciences, 2020  
 Molly Blakowski, Ph.D., **Department of Watershed Sciences**, Utah State University, anticipated 2023

## UNIVERSITY ADMINISTRATIVE AND COMMITTEE EXPERIENCE

Chair, Department of Atmospheric Sciences (2011 – 2018): Provided leadership for a department with 12 tenure-line faculty, 10 career-line faculty, 18 staff members, 44 graduate students, and 71 undergraduate students (including minors). Major accomplishments include:

- Initiated and led a new recruiting initiative which increased the number of undergraduate majors by 33%.
- Completed a comprehensive overhaul of the undergraduate and graduate curricula to be more responsive to student needs and those of the department.
- Assessed the impacts of the curricula changes on both students and faculty and published the results in the *Bulletin of the American Meteorological Society*.
- Revised the Graduate Student Guide for the department.
- Trained a new academic coordinator and established procedures to better track the progress of both undergraduate and graduate students.
- Provided conservative fiscal oversight of more than \$5 million in combined research expenditures and state appropriations.
- Completely updated and redesigned the Departmental website to make it mobile friendly and ADA compliant.
- Undertook a significant remodeling project of Departmental-controlled space to upgrade furniture infrastructure and improve efficiency of space utilization.
- Worked through the Transformative Excellence Program to secure a new tenure-track faculty position for the Department.
- Reestablished a triannual newsletter to increase the visibility of the Department, reconnect with alumni, and inform potential donors.
- Helped organize a Departmental Alumni and Friends Reception to be held each year at the American Meteorological Society Annual Meeting to reconnect with alumni and donors.
- Created a student-run, Ute Weather Center to provide undergraduate students with a high-impact, hands-on, learning experience in the spirit of the “My Utah Signature Experience” (MUSE) program. More than 1/3 of the atmospheric science majors voluntarily chose to participate in the Ute Weather Center in Academic Year 2016-17.

Credits and Admissions Committee (2002-present; Chair 2005 – present): Provide leadership for the University with regards to undergraduate admission policies and procedures. Major accomplishments include:

- Served as lead author and presenter of Policy 6-404 (Undergraduate Admissions) which was unanimously approved by the Academic Senate and the Board of Trustees in February 2013. Policy 6-404 was crafted over a 2 year period and included input from the Dean of Students Office, Institutional Policy Committee, Office of Admissions, Office for Equity and Diversity, Office of General Counsel, Office of the Registrar, Office of Undergraduate Studies, Undergraduate Council, and University College.
- Key provisions of Policy 6-404 include holistic admissions for all undergraduate students, a deferred admission policy, a leave of absence policy, and a clear definition of the authority and function of the Credits and Admissions Committee.
- Reviewed student success data provided by the Office of Budget and Institutional Analysis (OBIA) to set English language proficiency test minimum scores for both the main campus and the Utah Asia Campus. These recommendations were subsequently adopted by the Graduate School.

- Reviewed student success data provided by the OBIA to reweight the admissions index and put more emphasis on high school performance and less weight on standardized test scores in the admissions process.
- The committee is currently reviewing the articulation of Advanced Placement exam scores and International Baccalaureate diplomas.
- The committee reports annually to both the Academic Senate and the Sr. VP for Academic Affairs.

Educational Futures & Student Success Taskforce (2019 – present): Special committee convened by the Sr. VP for Academic Affairs (Dr. Dan Reed). I am serving as the co-chair of the Enrollment and Marketing subgroup. The charge of the subgroup is to evaluate current application/enrollment data, identify strategies for increasing the number of incoming undergraduate students, while simultaneously continuing to increase overall diversity and student quality.

Strategic Enrollment and Retention Task Force (2016 – 2018): Special committee convened by the Sr. VP for Academic Affairs (Dr. Ruth Watkins) and the Sr. VP for Student Affairs (Dr. Barbara Snyder). SERT is a high-level, campus-wide effort to identify and articulate strategic undergraduate enrollment goals for the University and to synthesize and monitor information related to undergraduate retention and completion.

Shorelight Academic Quality Committee (2017 – Present): Special committee convened by the Sr. VP for Academic Affairs (Dr. Ruth Watkins) and the VP for Enrollment Management (Mary Parker) to design and approve the academic program and progression procedures for international undergraduate students recruited through the UGlobal Initiative.

Comprehensive Retention and Completion (CRC) Task Force (2013 – 2015): Special committee convened by the Sr. VP for Academic Affairs (Dr. Ruth Watkins) to identify institutional barriers that adversely impact student success. The CRC task force generated a comprehensive report that identified and prioritized actionable items that will promote student retention, diversity, and success.

- Served as the chair of the Admissions subgroup of the CRC Task Force.

Transfer Process Working Group Task Force (2014 – 2015): Special committee convened by the Sr. VP for Academic Affairs (Dr. Ruth Watkins) to understanding the process of transfer to the University of Utah, with the general aim of facilitating the success of our transfer students. The effort included an analysis of current practices in recruiting, admitting, articulating credit, orienting, enrolling and graduating transfer students. The task force provided recommendations for how we might improve our processes to better serve and support this important student population.

Orientation Task Force (2014 – 2015): Special committee convened by the Sr. VP for Academic Affairs (Dr. Ruth Watkins) to evaluate the entire process by which incoming freshmen and transfer students are introduced to the University. The task force provided recommendations to streamline and reinvigorate the orientation programs to make them more effective for the students and the departments/programs/colleges that serve them.

General Education Curriculum Committee (Co-Chair 2013, 2014, and 2015): This committee was established by the Dean of Undergraduate Studies (Dr. Martha Bradley) to be responsible for the initial approval and periodic review of all courses that seek or hold a general education and/or baccalaureate requirement designation at the University. The GECC also initiated the first assessment of the expected learning outcomes for general education courses at the University and created/administered the Faculty Teaching Award for Excellence in General Education and the Faculty Teaching Award for Innovation in General Education.

Society, Water, and Climate Transformative Excellence Program Search Committee Member (2014 – 2017): This search committee was tasked with reviewing 481 applications for five interdisciplinary

faculty hires drawn from the following areas: hydrological modeling, climatology, ecohydrology, snow hydrology, air quality modeling, and sociology.

5% Rule Committee (2013 – 2014): Special committee convened by the Associate VP for Enrollment Management (Mary Parker) to perform a comprehensive review of how the admission of undergraduate students on an exception basis (i.e., the 5% Rule) has been impacted by the new holistic admission policy (Policy 6-404).

- Reviewed data on existing sponsorship programs at the University of Utah to determine the effectiveness of the various sponsoring departments/programs
- Identified the best practices of current sponsorship programs
- Worked with sponsoring departments/programs to identify their most pressing needs
- Made procedural and budgetary recommendations to the Sr. VP for Academic Affairs through the CRC Task Force

Strategic Enrollment Management Committee: Student Recruitment (2012 – 2013): Special committee convened by President Pershing to perform a comprehensive review of all student recruitment procedures. The committee identified three actionable items that could simultaneously improve the diversity, quality, and size of the undergraduate applicant pool.

Strategic Enrollment Management Committee: Student Success (2012 – 2013): Special committee convened by President Pershing to identify existing barriers to student success. The committee identified three actionable items that would significantly improve both student retention and graduation rates.

Undergraduate Council Representative (2010 – 2013): The Undergraduate Council is responsible for coordinating and encouraging the development of undergraduate studies across the University and overseeing all university-wide undergraduate requirements. It is charged with maintaining a program of general education and other graduation requirements in cooperation with the academic departments and colleges. The Council reviews and evaluates proposals for new certificates, degrees and undergraduate programs not located in or associated with graduate programs and collaborates with the Graduate Council in reviewing undergraduate programs based in departments that award graduate degrees.

Undergraduate Advisor, Department of Atmospheric Sciences (2002 – 2017): I have shared the advising duties with other faculty and staff members since my arrival at the University. My duties include all aspects of student recruitment, academic advising, and career counseling. I have continued to serve as the backup advisor throughout my time as Department Chair.

Director of Graduate Studies, Department of Atmospheric Sciences (2011 – 2018): I took over the graduate advising duties when I became chair of the Department of Atmospheric Sciences. I instituted several new procedures designed to empower the graduate students and reduce the time required to receive graduate degrees. I rewrote the Graduate Student Guide to explicitly articulate the Departmental policies and procedures pertaining to the graduate program. To transmit this information to the graduate students I instituted a mandatory new student departmental orientation. I also began tracking all of the graduate students to make sure that they set up their supervisory committee and complete their comprehensive exam in a timely manner. These duties have since been transferred to the academic coordinator.

University Curriculum Policy Review Board (2005 – 2017): The chairpersons of the various college curriculum committees, as well as the Dean of the Graduate School and the University Registrar, will be convened as a University Curriculum Policy Review Board to review curriculum policies and procedures, coordinate curriculum planning and intercollege consultations, and promulgate modifications in guidelines for processing curricular proposals

Academic Policy Advisory Committee (2010 – 2011, **Chair 2011**): Considers any matter relating to academic policy which may be suggested by members of the committee, members of the faculty, administrative officers, or students; submits reports and recommendations to the Academic Senate.

Academic Senate Representative (2006 – 2009): I represented the College of Mines and Earth Sciences for a three-year term. As a member of the Academic Senate, I learned a great deal about faculty governance and the significant issues facing the University.

Intellectual Exploration Physical, Life, and Applied Sciences Area Committee (2006 – 2009): Reviewed course syllabi seeking the Physical and Life Sciences (SF) and Applied Sciences (AS) general education designations.

Financial Aid and Scholarships Committee (2005 – 2008): Advises and assists the Director of Financial Aid and Scholarships and the VP of Student Affairs and Services in the development of strategic direction and policies relative to the various elements of student financial assistance, essential to attracting and retaining the highest quality students; analyzes information to make decisions; assists in the development and administration of an equitable approach for allocating University financial aid resources among academic units, and other matters that impact the effective management of a comprehensive program of financial assistance for students.

Search Committee for the Director of Admissions (2006, 2012, 2016, 2017): I served on four search committees charged with the task of vetting candidates for the position of Director of the Office of Admissions.

Graduation Committee (2002 -2004; **Chair in 2004**): Considers and rules on students' petitions to the Registrar for permission to receive baccalaureate degrees by exception to established University requirements for graduation; reviews and approves or disapproves exceptions to baccalaureate degree requirements if such exceptions are recommended by departments and/or colleges; considers and rules on students' petitions to the Registrar relating to graduation with honors.

University Studies Committee (2002 – 2004; **Chair in 2003 and 2004**): Reviews for approval baccalaureate programs of study individually designed by students under the supervision of a faculty advisor, leading to the Bachelor of University Studies degree.



**GRANT SUPPORT HISTORY**  
**(\$1.13M as PI; an additional \$1.36M as Co-PI)**

**Pending Research Projects**

Collaborative Research: Network Cluster: Dust in the critical zone from the Great Basin to the Rocky Mountains

National Science Foundation – Critical-Zone Collaborative Network

01/01/2021-12/31/2025

\$2,439,110 (PI)

Particulate Chloride in the Urban Environment

Utah Division of Air Quality

07/01/2020-12/31/2021

\$76,429 (PI)

Cumulative and Acute Effects of Air Pollution on Eosinophilic Esophagitis

National Institutes of Health - National Institute of Allergy and Infectious Diseases

01/01/2020-12/31/2022

\$250,000 (Co-PI)

**Current Research Projects**

Characterizing Future Dust and Heavy Metal Emissions from the GSL Lakebed

Utah Department of Natural Resources

07/01/2019 – 06/30/2020

\$41,495 (PI)

**Completed Research Projects**

Quantifying the Impact of Great Salt Lake Dust Plumes on Local Air Quality

Utah Department of Natural Resources

07/2016 – 12/2018

\$75,000 (PI)

Potential Impacts of Local Dust Plumes on the Proposed Prison Site

Utah Division of Facilities and Construction Management

06/2016 – 08/2017

\$99,636 (PI)

Air Quality Impacts on Autoimmune Diseases

University of Utah Office of the Vice President for Research

01/2013 – 12/2013

\$28,000 (PI)

A Quantitative Assessment of Mercury Influx to the Great Salt Lake

US Environmental Protection Agency (Region 8)

08/2010 – 07/2012

\$200,000 (PI)

Observing Snow and Wind: Using the Environment to Engage Students in Science and Engineering

National Science Foundation

07/2010 – 06/2012

\$135,000 (Co-PI)

Atmospheric Mercury Monitoring in Utah  
US Environmental Protection Agency  
07/2009 – 06/2011  
\$176,908 (PI)

Transport and Deposition of Mercury to Salmon Falls Creek Reservoir, Idaho  
U.S. Environmental Protection Agency  
11/2007 – 10/2009  
\$180,000 (PI)

Lake Tahoe Deposition Study  
University of California, Davis  
12/2007 – 09/2010  
\$5,000 (PI)

SUPRECIP-2  
University of California, Davis  
1/2006 – 10/2007  
\$5,000 (PI)

Exposure to Particulate Matter  
University of Utah Office of the Vice President for Research  
01/2006 – 10/2007  
\$22,000 (PI)

Analysis of Air Resources Board Filters #2  
University of California, Davis  
05/2005 – 08/2005  
\$5,000 (PI)

Analysis of Air Resources Board Filters #1  
University of California, Davis  
09/2004 – 08/2005  
\$5,000 (PI)

Sonoma Tech  
University of California, Davis  
12/2003 – 08/2006  
\$5,454 (PI)

Greenland Aerosol Analysis  
University of California, Davis  
09/2003 – 08/2006  
\$4,848 (PI)

Intercontinental Transport of Particulate Matter from Asia to the United States  
NOAA Office of Global Programs  
09/2002 – 08/2005  
\$450,000 (Co-PI)

Particulate Matter Analysis  
University of California, Davis  
05/2002 – 04/2005  
\$34,947 (PI)

Characterization of PM<sub>2.5</sub> Dust Emissions from Training/Testing Range Operations  
 Department of Defense (DOD) Strategic Environmental Research and Development Project  
 10/2001 – 09/2005  
 \$425,000 (Co-PI)

Collaborative Research: Asian Aerosol Source Identification, Chemical Transformation and Long Range Transport, Spring and Summer, 2001  
 National Science Foundation (Atmospheric Chemistry)  
 07/2000 – 06/2003  
 \$350,000 (Co-PI)

Research at Undergraduate Institutions: Acquisition of Air Pollution Sampling Equipment  
 National Science Foundation (Atmospheric Chemistry)  
 09/2000 – 08/2001  
 \$130,900 (PI)

Atmospheric Radiation Measurement (ARM) Program  
 Department of Energy (DOE) Lawrence Livermore National Laboratory  
 10/1999 – 06/2002  
 \$116,412 (PI)

## REFEREED PUBLICATIONS

(N=38; h-index = 23; Citations = 2192)

### Published

- 1) Maestas M. M., K. D. Perry, K. Smith, R. Firszt, K. Allen-Brady, J. Robson, E. Joy, and K. Peterson, Food impactions in eosinophilic esophagitis and acute exposures to fine particulate pollution, *Allergy*, doi: 10.1111/all.13932, 2019.
- 2) Asher, E. C., J. N. Christensen, A. Post, K. D. Perry, S. S. Cliff, Y. Zhao, J. Trousdell, and I. Faloon, The transport of Asian dust and combustion aerosols and associated ozone to North America as observed from a mountaintop monitoring site in the California Coast Range, *J. Geophys. Res. Atmos.*, doi: 10.1029/2017JD028075, 2018.
- 3) Reid, J. S., N. D. Lagrosas, H. H. Jonsson, E. A. Reid, S. A. Atwood, T. J. Boyd, V. P. Ghate, P. Lynch, D. J. Posselt, J. B. Simpas, S. N. Uy, K. Zaiger, D. R. Blake, A. Bucholtz, J. R. Campbell, B. N. Chew, S. S. Cliff, B. N. Holben, R. E. Holz, E. J. Hyer, S. M. Kreidenweis, A. P. Kuciauskas, S. Lolli, M. Oo, K. D. Perry, S. V. Salinas, W. R. Sessions, A. Smirnov, A. L. Walker, Q. Wang, L. Yu, J. Zhang, and Y. Zhao, Aerosol meteorology of Maritime Continent for the 2012 7SEAS southwest monsoon intensive study: Part II Philippine receptor observations of fine scale aerosol behavior, *Atmos. Chem. Phys.*, 16 (22), 14057-14078, 2016.
- 4) Wai, K. M., S. Wu, X. Li, D. A. Jaffe, and K. D. Perry, Global atmospheric transport and source receptor relationships for arsenic. *Environ. Sci. & Technol.*, 50 (7), 3714-3720, 2016.
- 5) Kaku, K. C., J. S. Reid, E. A. Reid, K. Ross-Langerman, S. Piketh, S. Cliff, A. Al Mandoos, S. Broccardo, Y. Zhao, J. Zhang, and K. D. Perry, Investigation of the relative fine and coarse mode aerosol loadings and properties in the Southern Arabian Gulf region, *Atmos Res.*, v 169, p 171-182, 2016.
- 6) Hahnenberger, M., and K. D. Perry, Chemical comparison of dust and soil from the Sevier Dry Lake, UT, USA. *Atmos. Environ.*, doi: 10.1016/j.atmosenv.2015.04.054, 2015.

- 7) Zhao, Y., S. S. Cliff, A.S. Wexler, W. Javed, K. D. Perry, Y. Pan, and F. M. Mitloehner, Measurement of size- and time-resolved elemental concentrations at a California dairy farm. *Atmos. Environ.*, doi: 10.1016/j.atmosenv.2014.06.011, 2014.
- 8) Smith, D. J., H. J. Timonen, D. A. Jaffe, D. W. Griffin, M. N. Birmele, K. D. Perry, P. D. Ward, and M. S. Roberts, Intercontinental dispersal of bacteria and archaea by transpacific winds, *Applied and Environ. Microbiology*, doi:10.1128/AEM.03029-12, 2013.
- 9) Horel, J. D., D. Ziegenfuss, and K. D. Perry, Transforming an atmospheric science curriculum to meet students' needs, *Bull. Amer. Meteor. Soc.*, doi: <http://dx.doi.org/10.1175/BAMS-D-12-00115.1>, 2013.
- 10) Lan, X., R. Talbot, M. Castro, K. D. Perry, and W. Luke, Seasonal and diurnal variations of atmospheric mercury across the US determined from AMNet monitoring data, *Atmos. Chem. Phys.*, 12, 10569-10582, 2012.
- 11) VanCuren, R. A., T. A. Cahill, J. Burkhart, D. Barnes, Y. Zhao, K. D. Perry, S. S. Cliff, and J. McConnell, Aerosols and their sources at Summit Greenland – First results of continuous size- and time-resolved sampling, *Atmos. Environ.*, 52, 82-97, 2012.
- 12) Zhang, Y., L. Jaeglé, L. A. van Donkelaar, R. V. Martin, C. D. Holmes, H. M. Amos, Q. Wang, R. Talbot, R. Artz, S. Brooks, W. Luke, T. M. Holsen, D. Felton, E. K. Miller, K. D. Perry, D. Schmeltz, A. Steffen, R. Tordon, P. Weiss-Penzias, and R. Zsolway, Nested-grid simulation of mercury over North America, *Atmos. Chem. Phys. Discuss.*, 12, 2603-2646, [www.atmos-chem-phys-discuss.net/12/2603/2012/doi:10.5194/acpd-12-2603-2012](http://www.atmos-chem-phys-discuss.net/12/2603/2012/doi:10.5194/acpd-12-2603-2012), 2012.
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## CONFERENCE PRESENTATIONS

Details on a total of 79 conference presentations are available upon request.

## INVITED TALKS

(N=34)

- 2020 “Results of the Great Salt Lake Dust Plume Study”, Department of Geology, University of Texas El Paso, TX
- 2020 “Results of the Great Salt Lake Dust Plume Study”, Salt Lake Oasis, Salt Lake City, UT
- 2019 “Results of the Great Salt Lake Dust Plume Study”, Northern Wasatch Oasis, Layton, UT
- 2019 “Linkages Between the Great Salt Lake and Air Quality”, Salt Lake County Watershed Symposium, West Valley City, UT
- 2019 “Results of the Great Salt Lake Dust Plume Study”, Rotary Club of Salt Lake City, Salt Lake City, UT
- 2018 “Results of the Great Salt Lake Dust Plume Study”, Utah Legislative Clean Air Caucus, Salt Lake City, UT
- 2018 “Source Regions and Elemental Composition of PM<sub>10</sub> Mineral Dust Originating from the Exposed Lakebed of the Great Salt Lake”, Great Salt Lake Issues Forum, Salt Lake City, UT
- 2017 “Source Regions and Elemental Composition of PM<sub>10</sub> Mineral Dust Originating from the Exposed Lakebed of the Great Salt Lake”, Air Quality: Science for Solutions Conference
- 2015 “Clearing the Air: What is an Inversion and How Does it Impact Health”, University of Utah Health Sciences Library Seminar Series, Salt Lake City, UT
- 2013 “What We Know and Don’t Know About Weather – Air Quality Linkages”, Air Quality, Society, and Health Program Retreat, Salt Lake City, UT.
- 2012 “Transforming an Atmospheric Sciences Curriculum to Meet Students’ Needs”, University Corporation for Atmospheric Sciences Heads and Chairs Biannual Meeting, Boulder, CO.
- 2012 “Mercury in Air”, Friends of the Great Salt Lake Conference, Salt Lake City, UT
- 2011 “History of Air Quality in Utah”, Department of Atmospheric Sciences Graduate Seminar Series, Salt Lake City, UT.

- 2010 "Preliminary Results from the UT96 AMNet Site (Year 1)", Utah Department of Environmental Quality, Salt Lake City, UT.
- 2010 "Preliminary Results from the UT96 AMNet Site (Year 1)", US Environmental Protection Agency, Denver, CO.
- 2010 "UT96 AMNet Site Hg Source Identification (Proof of Principle)", Utah Department of Environmental Quality, Salt Lake City, UT.
- 2008 "Identifying an Atmospheric Chemical Fingerprint of Gold Mining Activities in Nevada", Department of Atmospheric Sciences Graduate Seminar Series, Salt Lake City, UT.
- 2008 "An Introduction to the Weather Derivative Industry", Department of Atmospheric Sciences Graduate Seminar Series, Salt Lake City, UT.
- 2006 "A Proposed Method to Determine the Transport and Deposition of Hg to Water Bodies in the Intermountain West", Utah Department of Air Quality, Salt Lake City, UT.
- 2004 "Climatic Effects of Aeolian Dust in the Atmosphere", Geology and Geophysics Distinguished Lecture Series, Salt Lake City, UT.
- 2004 "Are Ground-Based Aerosol Measurements Relevant to Direct Radiative Forcing Calculations?", University of Utah, Salt Lake City, UT.
- 2003 "Summary of Size-Resolved Mineral Dust Measurements from the ACE-Asia (2001) and ITCT (2002) Experiments", Second Workshop on Mineral Dust, Paris, France.
- 2002 "Delta-Group Size Resolved Aerosol Mass & Elemental Concentration Measurements During Ace-Asia", Project Asian Brown Cloud (ABC) Science Team Meeting, Scripps Institution of Oceanography (SIO), University of California, San Diego, La Jolla, CA.
- 2002 "Recent Advances in Atmospheric Aerosol Science and Technology", Sandia National Laboratories, Livermore, CA.
- 2001 "Size- and Time-Resolved Aerosol Chemical Composition Measurements: A Powerful Tool for Atmospheric Research", University of Utah, Salt Lake City, UT.
- 2000 "Asian Particulate Transport in Dust and Non-Dust Events", First International Conference on the Trans-Pacific Transport of Atmospheric Contaminants, Seattle, WA.
- 2000 "Transport of Asia Dust and Pollution to the United States", NASA Ames Research Center, Moffett Field, CA.
- 1998 "Particulate Matter in the Atmosphere", U.S. Department of Agriculture, Air Quality Seminar Series, Davis, CA.
- 1998 "Transport of Anthropogenic Aerosols from Asia to Mauna Loa Observatory, Hawaii", Department of Atmospheric Sciences, University of California, Los Angeles, CA.
- 1998 "Re-Evaluating the Climatic Significance of Mineral Dust", Department of Atmospheric Sciences, University of California, Los Angeles, CA.
- 1998 "Quantifying the Effect of Aerosols in Climate", Meteorology Department, San Jose State University, San Jose, CA.
- 1997 "Long-Range Transport of North African Dust to the Eastern United States", U.S. Environmental Protection Agency FACA Subcommittee for Ozone, Particulate Matter & Regional Haze Implementation Programs, Portland, OR.
- 1997 "Long-Range Transport of North African Dust to the Eastern United States", National Oceanic and Atmospheric Administration/Climate Modeling Diagnostic Laboratory, Boulder, CO.

- 1997 "Long-Range Transport of North African Dust to the Eastern United States", Department of Land, Air, and Water Resources, University of California, Davis, CA.
- 1997 "Anthropogenic aerosol influences at Mauna Loa Observatory during spring, 1996", National Oceanic and Atmospheric Administration/Climate Monitoring and Diagnostics Laboratory Annual Meeting, Boulder, CO.
- 1996 "Source apportionment of PM<sub>2.5</sub> aerosols in the Puget Sound region", Cloud Physics Seminar Series, Department of Atmospheric Sciences, University of Washington, Seattle, WA.
- 1994 "Some effects of cumulus clouds on their surroundings", presented at the Center for Clouds, Chemistry, and Climate at Scripps Institute of Oceanography, La Jolla, CA.

### **MEMBERSHIPS AND AFFILIATIONS**

American Geophysical Union (1994-present)  
American Meteorological Society (1986-present)  
Aeronautics Education Advisory Board (2012-present)

### **EXPERT WITNESS EXPERIENCE**

Blackrock Owners Association vs West Hills LLC et al. (Case No: 100500990 MI) Fifth District Court – Cedar, Iron County, UT (2014)  
SkyWest Airlines vs Federal Aviation Administration (FAA Case No. 2012NM060025/DMS No.: FAA-2013-0292) (2014)