

## KEVIN D. PERRY

Department of Atmospheric Sciences, University of Utah,  
135 S 1460 E, Rm 819, Salt Lake City, UT 84112-0110  
Tel: (801) 581-6138 (Work); (801) 414-9083 (Cell)  
E-mail: [kevin.perry@utah.edu](mailto:kevin.perry@utah.edu)

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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/APPOINTMENTS

2024 – present Presidential Societal Impact Scholar, University of Utah  
2022 – present Professor, Department of Atmospheric Sciences, University of Utah  
2021 – present Member, Great Salt Lake Strike Team  
2021 – present Steering Committee Member, Dust Alliance for North America

### PREVIOUS PROFESSIONAL EXPERIENCE

2011 – 2018 Chair, Department of Atmospheric Sciences, University of Utah  
2008 – 2022 Associate Professor, 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

*Presidential Societal Impact Scholar Award*, University of Utah, 2024  
*Career & Professional Development Center Faculty Recognition Award*, University of Utah, 2018  
*Utah Medical Association Environmental 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

## 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 (2002-2022; Chair 2005 – 2022): 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.
- Reviewed the articulation of Advanced Placement exam scores and International Baccalaureate diplomas.

Honors Academic Advisor (2019-present): I serve as the academic advisor for all Honors students in the College of Mines & Earth Sciences. As an advisor, I assist students in all aspects of completing their Honors Thesis. Specific tasks include: finding faculty mentors, approving thesis proposals, explaining procedures and expectations, providing counsel regarding conference presentation venues, and signing off on all completed theses.

UPSTEM Faculty Mentor (2023-present): As a Utah Pathways to STEM faculty mentor, I am working to help develop a culture of peer mentoring for faculty within the departments of the College of Science. Specifically, the UPSTEM committee is developing a best practices document that can be utilized by and for tenure-line and career-line faculty members of all ranks.

Educational Futures & Student Success Taskforce (2019 – 2020): Special committee convened by the Sr. VP for Academic Affairs (Dr. Dan Reed). I served as the co-chair of the Enrollment and Marketing subgroup. The charge of the subgroup was 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 – 2018): 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 understand 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 shared the advising duties with other faculty and staff members since my arrival at the University. My duties included all aspects of student recruitment, academic advising, and career counseling. I 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 completed 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 & 2023 – 2026): I was elected to serve as the Academic Senate representative for the College of Mines and Earth Sciences for two 3-year terms. 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.

**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 2750*	Energy, Water, Air, and Metals: Sustainable Use and Development (online)	Sp20, Sp21, Sp22, Sp23, Sp24
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
HONORS 2750*	Energy, Water, Air, and Metals: Sustainable Use and Development	Sp18, Sp19, Sp20, Sp21, Sp22, Sp23, Sp24
HONORS 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 Sciences	F03, F04, F06, F08, F12, F15, F17, F19, F20, F21, F22, F23
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 – 2021\*)**

<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>
Sp24	HONOR 2750: Energy, Water, Air, and Metals: Sustainable Use and Development	21	NA	NA
Sp24	HONOR 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (Online)	14	NA	NA
Sp24	ATMOS 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (Online)	38	NA	NA
F23	ATMOS 5000: Introduction to Atmospheric Sciences (Flipped)	28	NA	NA
Sp23	ATMOS 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (Online)	43	NA	NA
Sp23	HONOR 2750: Energy, Water, Air, and Metals: Sustainable Use and Development	29	NA	NA
F22	ATMOS 5000: Introduction to Atmospheric Sciences (Flipped, hybrid-IVC)	22	NA	NA
Sp22	ATMOS 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (Online)	30	NA	NA
Sp22	HONOR 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (IVC)	27	NA	NA
F21	ATMOS 5000: Introduction to Atmospheric Sciences (Flipped, hybrid-IVC)	31	NA	NA
Sp21	ATMOS 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (Online)	34	NA	NA
Sp21	HONOR 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (IVC)	27	NA	NA
F20	ATMOS 5000: Introduction to Atmospheric Sciences (Flipped, hybrid-IVC)	25	5.36	5.68
Sp20	HONOR 2750: Energy, Water, Air, and Metals: Sustainable Use and Development (IVC)	30	5.69	5.71
F19	ATMOS 5000: Introduction to Atmospheric Sciences (Flipped)	21	5.30	5.79
Sp18	HONOR 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 Sciences	13	5.41	5.61
Sp15	HONOR 3700: Air Quality, Health, and Society Praxis Lab	10	5.88	6.00
F14	HONOR 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 Sciences	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 Sciences	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 Sciences	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 = 0.33</b>	<b>Avg = 5.63</b> <b>Stdev = 0.30</b>

\*Note: The student teaching evaluation forms were dramatically changed in 2021 and numeric scores are no longer available.

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.

### 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 Sciences	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  
Thorn Merrill, M.S. Atmospheric Sciences, 2023  
Zac Claerhout, M.S., Atmospheric Sciences, anticipated 2025

## 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  
Dien Wu, Ph.D., Atmospheric Sciences, 2018  
Kevin Craft, M.S., Atmospheric Sciences, 2018  
Naomi Riches, Ph.D., **Occupational and Environmental Health**, 2019  
Taylor Wilmot, Ph.D., Atmospheric Sciences, 2022  
Aaron McCutcheon, MS, Atmospheric Sciences, 2023  
Molly Blakowski, Ph.D., **Department of Watershed Sciences**, Utah State University, anticipated 2023  
Szczerbinski, Ryan, MS, Atmospheric Sciences, anticipated 2024  
Otto Lang, Ph.D., **Department of Geography**, anticipated 2025  
Reuban Attah, Ph.D., **Department of Chemical Engineering**, anticipated 2025  
Shuying Zhao, M.S., Atmospheric Sciences, anticipated 2025  
Misha, Galant, M.S., Atmospheric Sciences, anticipated 2025

**GRANT SUPPORT HISTORY**  
**(\$2.41M as PI; an additional \$5.32M as Co-PI)**

**Pending Research Projects**

<b>PI Status</b>	<b>Amount</b>	<b>Agency</b>	<b>Title</b>	<b>Years</b>
Co-PI	\$2,625,000	NIH (CCHRC)	Impact of climate change-driven events on the health of communities in the Great Basin.	2024-2027
Co-PI	\$375,000	Burroughs Wellcome Fund	Impact of climate change on the risk of Valley fever infection along the invasion front.	2024-2027
Co-PI	\$85,643	Utah Division of Air Quality	Projecting the impacts of a shrinking Great Salt Lake on dust exposure along the Wasatch Front	2024-2025
PI	\$92,500	Utah Division of Water Resources	Options and costs for Great Salt Lake Dust Control – Component of Great Salt Lake Basin Integrated Plan	2024-2025

**Current Research Projects**

<b>PI Status</b>	<b>Amount</b>	<b>Agency</b>	<b>Title</b>	<b>Years</b>
PI	\$1,197,866	NSF (Critical Zone Thematic Cluster)	Dust in the Critical Zone from the Great Basin to the Rocky Mountains	2020-2025
Co-PI	\$4,236,134			
Co-PI	\$49,820	Wilkes Center for Climate Science and Policy	Understanding the Oxidative Potential and Bioavailability of Dust from the Great Salt Lake	2023-2024
Co-PI	\$50,000	Wilkes Center for Climate Science and Policy	Mapping Current and Future Risk of Valley Fever across Utah	2023-2024
Co-PI	\$30,000	Vice President for Research – IU4U	The Pathogenic Potential of Great Salt Lake Dust	2023-2024

**Completed Research Projects**

<b>PI Status</b>	<b>Amount</b>	<b>Agency</b>	<b>Title</b>	<b>Years</b>
PI	\$77,235	Utah Division of Air Quality	Particulate Chloride in the Urban Environment	2021-2022
PI	\$41,495	Utah Department of Natural Resources	Characterizing Future Dust and Heavy Metal Emissions from the GSL Lakebed	2019-2020
PI	\$75,000	Utah Department of Natural Resources	Quantifying the Impact of Great Salt Lake Dust Plumes on Local Air Quality	2016-2018
PI	\$99,636	Utah Division of Facilities and Construction Management	Potential Impacts of Local Dust Plumes on the Proposed Prison Site	2016-2017
PI	\$28,000	UofU Office of the Vice President for Research	Air Quality Impacts on Autoimmune Diseases	2013

PI	\$200,000	US Environmental Protection Agency	A Quantitative Assessment of Mercury Influx to the Great Salt Lake	2010-2012
Co-PI	\$135,000	NSF	Observing Snow and Wind: Using the Environment to Engage Students in Science and Engineering	2010-2012
PI	\$176,908	US Environmental Protection Agency	Atmospheric Mercury Monitoring in Utah	2009-2011
PI	\$180,000	US Environmental Protection Agency	Transport and Deposition of Mercury to Salmon Falls Creek Reservoir, Idaho	2007-2009
PI	\$5,000	University of California - Davis	Lake Tahoe Deposition Study	2007-2010
PI	\$5,000	University of California - Davis	SUPRECIP-2	2006-2007
PI	\$22,000	UofU Office of the Vice President for Research	Exposure to Particulate Matter	2006-2007
PI	\$5,000	University of California - Davis	Analysis of Air Resources Board Filters #2	2005
PI	\$5,000	University of California - Davis	Analysis of Air Resources Board Filters #1	2004-2005
PI	\$5,454	University of California - Davis	Sanoma Tech	2003-2006
PI	\$4,848	University of California - Davis	Greenland Aerosol Analysis	2003-2006
Co-PI	\$450,000	NOAA Office of Global Programs	Intercontinental Transport of Particulate Matter from Asia to the United States	2002-2005
PI	\$34,947	University of California - Davis	Particulate Matter Analysis	2002-2005
Co-PI	\$425,000	DOD SERDP	Characterization of PM2.5 Dust Emissions from Training/Testing Range Operations	2001-2005
Co-PI	\$350,000	NSF (Atmospheric Chemistry)	Asian Aerosol Source Identification, Chemical Transformation and Long-Range Transport	2000-2003
PI	\$130,900	NSF (Atmospheric Chemistry)	REU: Acquisition of Air Pollution Sampling Equipment	2000-2001
PI	\$116,412	DOE Lawrence Livermore National Laboratory	Atmospheric Radiation Measurement Program	1999-2002

## SUBMITTED MANUSCRIPTS

- 1) Grineski, S. E., D. Mallia, T. W. Collins, M. Araos, J. C. Lin, W. R. L. Anderegg, and K. D. Perry, Harmful dust from drying lakes: Health and equity implications of adaptation pathways for the Great Salt Lake, USA, *One Earth*, (under revision)

## REFEREED PUBLICATIONS & BOOKS

(N=39; h-index = 25; Citations = 3458)

- 1) Perry, K D., Framing the Problem: Causes and Consequences of a Shrinking Great Salt Lake (Monograph), *University of Utah Press*, 2024
- 2) 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.

- 3) 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.
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## CONFERENCE PRESENTATIONS

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- Mallia, D.V., O. Lang, S.M. Skiles, J.C. Lin, and K.D. Perry, "Projecting the Impacts of a Shrinking Great Salt Lake on Dust Along the Wasatch Front", 1st Annual Symposium on Dust Storms in the Western US, La Jolla, CA, April 17, 2023
- Perry, K.D., "Linkages Between the Shrinking Great Salt Lake and Air Quality/Human Health", Red Rock CME Conference (Utah Academy of Physician Assistants), St. George, UT, March 31, 2023.
- Mallia, D.V., K. Wilmot, J.C. Lin, G.A. Hallar, O. Lang, S.M. Skiles, and K.D. Perry, 2023: "Warm Season PM<sub>2.5</sub> Trends Along the Wasatch Front: A Lagrangian Modeling Perspective", 7<sup>th</sup> Annual Air Quality: Science for Solutions Conference, Salt Lake City, UT, March 30, 2023.
- Perry, K.D., "Particulate Chloride in the Urban Environment", 7<sup>th</sup> Annual Air Quality: Science for Solutions Conference, Salt Lake City, UT, March 30, 2023.
- Merrill, T.K., and K.D. Perry, "A New Method for Assessing the Effects of Soil Moisture on Dust Emission: Evidence from Great Salt Lake Playa", 7<sup>th</sup> Annual Air Quality: Science for Solutions Conference, Salt Lake City, UT, March 30, 2023.

- Hoch, S., and K.D. Perry, "Observations of Dust Emission on the Drying Lake Bed of the Great Salt Lake", 7th Annual Air Quality: Science for Solutions Conference, Salt Lake City, UT, March 30, 2023.
- Merrill, T., K.D. Perry, and M. Sweeney, "How Dry Must the Great Salt Lake be to Produce Hazardous Dust?", Salt Lake County Watershed Symposium, Salt Lake City, UT, Nov. 16-17, 2022.
- Christie, J.A., S. O'Connell-Lopez, K.D. Perry, K.A. Pratt, and C.J. Gaston, "Laboratory Investigation of ClNO<sub>2</sub> Production from Environmental Samples Collected Near the Great Salt Lake", American Association for Aerosol Research Annual Conference, Oct. 3-7, 2022.
- Perry, K.D., "Spatial Variability of Surface/Subsurface Geochemistry of the Exposed Playa of the Great Salt Lake, Utah (United States)", American Geophysical Union Annual Conference, New Orleans, Dec. 16, 2021.
- Munroe, J., J. Brahney, G. Carling, M. Hahnenberger, K.D. Perry, and M. Skiles, "The DUST<sup>2</sup> Project: A Source-to-Sink Investigation of the Modern Dust System in Southwestern North America", European Geophysical Union General Assembly, (virtual) April 19-30, 2021.
- Perry, K.D. and J. Carter, "Linkages Between the Great Salt Lake and Air Quality", Salt Lake County Watershed Symposium, Salt Lake City, UT, Nov. 20-21, 2019.
- Perry, K.D., "Elemental Composition of the Respirable Fraction of Mineral Dust from the Exposed Playa of the Great Salt Lake, USA, Salt Lake County Watershed Symposium, Salt Lake City, UT, Nov. 20-21, 2019.
- Perry, K.D., "Identification of Dust Source "Hot Spots" on the Exposed Playa of the Great Salt Lake, USA", Salt Lake County Watershed Symposium, Salt Lake City, UT, Nov. 20-21, 2019.
- Perry, K.D. and J. Carter, "Identification of Dust Source "Hot Spots" on the Exposed Playa of the Great Salt Lake, USA", AQUARIUS (Air Quality in the Western US) Workshop, Salt Lake City, UT, Sept. 25-26, 2019.
- Perry, K.D., "Elemental Composition of the Respirable Fraction of Mineral Dust from the Exposed Playa of the Great Salt Lake, USA, AQUARIUS (Air Quality in the Western US) Workshop, Salt Lake City, UT, Sept. 25-26, 2019.
- Perry, K.D., "Source Regions and Elemental Composition of PM<sub>10</sub> Mineral Dust Originating from the Exposed Lakebed of the GSL", GSL Issues Forum, Salt Lake City, UT, May 9-11, 2018.
- Maestas, M.M., K. D. Perry, K. R. Smith, R. Firszt, and K.A. Peterson, "Emergency Department Visits Among Patients with Eosinophilic Esophagitis and Acute Exposures to Particulate Pollution (PM<sub>2.5</sub>)", ISES-ISEE Conference, Ottawa, Canada, Aug. 26-30, 2018.
- Riches, N., M. Schreiber, J. Ramsay, and K. D. Perry, "Modeling Transport of Windblown Soil Using HYSPLIT", ISES-ISEE Conference, Ottawa, Canada, Aug. 26-30, 2018.
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- Hahnenberger, M., K. Nicoll, and K. D. Perry, "Meteorological and Physical Characteristics of Dust Transport Events in the Eastern Great Basin of Utah, U.S.A", American Geophysical Union Fall Conference, San Francisco, Dec. 5-9, 2011.
- Van Curen, R. A., T. A. Cahill, J. F. Burkhart, J. McConnel, D. Barnes, Y. Zhao, K. D. Perry, and S. S. Cliff, "Continental, Volcanic, and Marine Aerosols Arriving at Summit, Greenland as Recorded by

- Continuous Aerosol Monitoring”, American Geophysical Union Fall Conference, San Francisco, Dec. 5-9, 2011.
- Maestas, M. M., and K. D. Perry, “Temporal Patterns of Speciated Atmospheric Mercury Measurements in Utah”, American Geophysical Union Fall Conference, San Francisco, Dec. 5-9, 2011.
- Perry, K. D., J. R. Lisonbee, and E. R. Pardyjak, “Dry Deposition of Atmospheric Mercury to the Great Salt Lake”, 10<sup>th</sup> International Conference on Mercury as a Global Pollutant, Halifax, Nova Scotia, Canada, July 24-29, 2011.
- Maestas, M. M., K. D. Perry, and J. R. Lisonbee, “Temporal Variations of Speciated Atmospheric Mercury Concentrations Measured at the UT96 AMNet Site”, 10<sup>th</sup> International Conference on Mercury as a Global Pollutant, Halifax, Nova Scotia, Canada, July 24-29, 2011.
- Fischer, E. V., K. D. Perry, and D. A. Jaffe, “Always Downwind: The Optical and Chemical Properties of Aerosols Transported to Mount Bachelor from Across the Pacific and from California”, American Geophysical Union Fall Conference, San Francisco, Dec. 13-17, 2010.
- Cahill, T. A., T. E. Gill, N. E. Pignatelli, H. A. Olvera, J. W. Clague, D. E. Barnes, and K. D. Perry, “Size-Time-Composition Resolved Study of Aerosols Across El Paso, Texas in Fall 2008”, American Geophysical Union Fall Conference, San Francisco, Dec. 14-18, 2009.
- Van Curen, R. A., S. S. Cliff, K. D. Perry, and Y. Zhao, “Sources of Light Absorbing Aerosols Deposited to the Sierra Nevada Snowpack”, American Geophysical Union Fall Conference, San Francisco, Dec. 14-18, 2009.
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- VanCuren, R. A., S. S. Cliff, and K. D. Perry, “Mixing of Continental and Marine Air in TransPacific Transport of Asian Dust and Pollution - A Quasi-Lagrangian Analysis of a Single Transport Event”, American Geophysical Union Fall Conference, San Francisco, Dec. 11-15, 2006.
- VanCuren, R. A., S. S. Cliff, and K. D. Perry, “Transport Model Validation Using Long-Term and High Resolution Aerosol Measurements”, Workshop on Emissions Inventories and Projections for Assessing Intercontinental Transport, Task Force on Hemispheric Transport of Air Pollution, Beijing, China, Oct 18-20, 2006.
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- Cahill, T. A., S. S. Cliff, and K. D. Perry, “Phosphorus in Aerosols: Difficult to Measure, but Worth the Effort”, 7<sup>th</sup> International Aerosol Conference, St. Paul, MN, Sept 10-15, 2006.
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- International Global Atmospheric Chemistry (IGAC) Project, Christchurch, New Zealand, Sept. 4-9, 2004.
- Patris, N., S. S. Cliff, K. D. Perry, and M. H. Thiemens, "Oxygen Isotopic Anomaly in  $\text{SO}_4^{2-}$  and  $\text{NO}_3^-$  Aerosol as a Tracer of Chemistry During Trans-Pacific Pollution Transport", American Geophysical Union Fall Conference, San Francisco, CA, December 8-13, 2003.
- VanCuren, R. A., S. S. Cliff, K. D. Perry, and M. P. Jimenez-Cruz, "The Asian Continental Aerosol Plume Dominates Background Tropospheric Aerosol Over North America", 22<sup>nd</sup> Annual American Association for Aerosol Research Conference, Anaheim, CA, October 20-24, 2003.
- Cahill, T. A., S. S. Cliff, K. D. Perry, and R. Leifer, "Very Fine Particles From the WTC Collapse Piles: Anaerobic Incineration?", 226th American Chemical Society National Meeting, New York, September 7-11, 2003.
- Perry, K. D., "Summary of Size-Resolved Mineral Dust Measurements from the ACE-Asia (2001) and ITCT (2002) Experiments", 2nd Workshop on Mineral Dust, Paris, France, September 10 – 12, 2003.
- Cliff, S. S., T. A. Cahill, M. Jimenez-Cruz, and K. D. Perry, "Synchrotron X-ray Fluorescence Analysis of Atmospheric Aerosols Using ALS Beamline 10.3.1: Application to Atmospheric Pollution Evolution and Transport", 225th American Chemical Society National Meeting, New Orleans, LA, March 23 – 27, 2003.
- Perry, K. D., S. S. Cliff, M. P. Jimenez-Cruz, and T. A. Cahill, "Comparison of Size-Resolved Aerosol Chemical Composition Measurements Made Under Ambient and Low Relative Humidity Conditions at Trinidad Head During the ITCT 2K2 Experiment", American Geophysical Union Fall Conference, San Francisco, CA, December 6-10, 2002.
- Cliff, S. S., M. P. Jimenez-Cruz, and K. D. Perry, "Continuous Aerosol Elemental Analysis at 5 Sites During the 2002 Intercontinental Transport and Chemical Transformation Experiment (ITCT-2K2)", American Geophysical Union Fall Conference, San Francisco, CA, December 6-10, 2002.
- Johnson, K. S., V. A. Elrod, S. E. Fitzwater, J. N. Plant, F. P. Chavez, S. J. Tanner, R. M. Gordon, D. L. Westphal, K. D. Perry, and D. M. Karl, "Iron and Ecosystem Response to Surface Ocean-Lower Atmosphere Interactions in the North Pacific Ocean Gyre", American Geophysical Union Fall Conference, San Francisco, CA, December 6-10, 2002.
- Cahill, T. A., S. S. Cliff, M. P. Jimenez-Cruz, and K. D. Perry, "Dust and Non-dust Aerosol Outflow from Asia by Size, Time, and Composition, Spring, and Summer, 2001", American Geophysical Union Fall Conference, San Francisco, CA, December 6-10, 2002.
- Jimenez-Cruz, M. P., T. A. Cahill, K. D. Perry, S. S. Cliff, C. F. Cahill, and R. S. Disselkamp, "Aerosol Transport to the U.S. Receptor Sites During ACE-Asia", American Geophysical Union Fall Conference, San Francisco, CA, December 6-10, 2002.
- Robertson, S. A., K. D. Perry, S. S. Cliff, T. A. Cahill, and M. P. Jimenez-Cruz, "Determination of Chemical and Size-Resolved Mineral Dust Source Profiles During ACE-Asia Using Positive Matrix Factorization", American Geophysical Union Fall Conference, San Francisco, CA, December 6-10, 2002.
- Cliff, S. S., T. A. Cahill, M. P. Jimenez-Cruz, and K. D. Perry, "Dust Storm Evolution and Transport Determined by Time- and Size-Resolved Multi-Elemental Aerosol Composition During ACE-Asia", 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Crete, Greece, September 18-25, 2002.
- Perry, K. D., S. S. Cliff, T. A. Cahill, M. P. Jimenez-Cruz, J. Zhou, Y. Wu, and C. Xie, "Size-Resolved Aerosol Elemental Concentration Measurements From Hefei, China During ACE-ASIA", 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC), Crete, Greece, September 18-25, 2002.
- Perry, K. D., S. S. Cliff, T. A. Cahill, M. P. Jimenez-Cruz, J. Zhou, Y. Wu, and C. Xie, "Size-Resolved Aerosol Elemental Concentration Measurements From Hefei, China During ACE-ASIA", 6<sup>th</sup> International Aerosol Conference, Taipei, Taiwan, Sept. 8-13, 2002.

- Cahill, T. A., S. S. Cliff, M. P. Jimenez-Cruz, and K. D. Perry, "Comparison of Two Dust Storms During ACE-Asia, March and April, 2001, By Site, Size, Time and Composition", 6<sup>th</sup> International Aerosol Conference, Taipei, Taiwan, September 8-13, 2002.
- Cahill, T. A., S. S. Cliff, J. F. Shackelford, P. B. Kelly, G. Bench, and K. D. Perry, "Aerosols from the World Trade Center Collapse Site", 224<sup>th</sup> American Chemical Society National Meeting, Boston, MA, August 14 -22, 2002.
- Cahill, T. A., S. S. Cliff, and K. D. Perry, "Size and Compositionally Resolved Aerosols at Mauna Loa Observatory During ACE-Asia, Spring 2001", National Oceanic and Atmospheric Administration Climate Monitoring and Diagnostics Laboratory Annual Meeting, Boulder, CO, May 21-22, 2002.
- Delle Monache, L., K. D. Perry, and R. T. Cederwall, "Comparison of Aerosol Properties Within and Above the ABL at the ARM Program's SGP Site", 12<sup>th</sup> Joint Conference on the Applications of Air Pollution Meteorology with the Air and Waste Management Association, Norfolk, VA, May 19-23, 2002.
- Perry, K. D., T. A. Cahill, S. S. Cliff, and M. P. Jimenez-Cruz, "A Collaborative Network for Ground-Based Measurements of Size-Resolved Aerosol Chemical Composition in East Asia and Beyond During ACE-Asia", ACE-Asia Data Workshop, Beijing, China, April 4-5, 2002.
- Cahill, T. A., S. S. Cliff, M. P. Jimenez-Cruz, and K. D. Perry, "ACE-Asia: Size, Time, and Compositionally Resolved Aerosols During ACE-Asia Using Continuously Sampling DRUM Technology and Synchrotron-XRF Analysis", American Geophysical Union Fall Conference, San Francisco, CA, December 10 -14, 2001.
- Bench, G., P. Grant, D. Ueda, S. Cliff, K. D. Perry, and T. A. Cahill, "The Use of STIM and PESA to Respectively Measure Profiles of Aerosol Mass and Hydrogen Content Across Mylar Rotating Drum Impactor Samples", American Geophysical Union Fall Conference, San Francisco, CA, December 10 -14, 2001.
- Cahill, C. F., K. D. Perry, S. S. Cliff, M. P. Jimenez-Cruz, and T. A. Cahill, "ACE-Asia: Asian Aerosol Transport Into Alaska", American Geophysical Union Fall Conference, San Francisco, CA, December 10 -14, 2001.
- Cliff, S. S., K. D. Perry, M. P. Jimenez-Cruz, and T. A. Cahill, "Application of Synchrotron-XRF to Quantitative Elemental Aerosol Analysis", American Geophysical Union Fall Conference, San Francisco, CA, December 10 -14, 2001.
- Jimenez-Cruz, M. P., S. S. Cliff, K. D. Perry, T. A. Cahill, and T. S. Bates, "ACE-Asia: Size Resolved Sampling of Aerosols on the Ronald H Brown and US Western Receptor Sites", American Geophysical Union Fall Conference, San Francisco, CA, December 10 -14, 2001.
- Perry, K. D., T. A. Cahill, and S. S. Cliff, "High Sensitivity Measurements of the Size-Resolved Aerosol Chemical Composition from Airborne Samples", Conference on Visibility, Aerosols and Atmospheric Optics, Vienna, Austria, September 11-15, 2000.
- Cliff, S. S., M. P. Jimenez-Cruz, K. D. Perry, P. B. Kelly, and T. A. Cahill, "Highly Time-Resolved Compositional Analysis of Size-Segregated Aerosols", Conference on Visibility, Aerosols and Atmospheric Optics, Vienna, Austria, September 11-15, 2000.
- Cahill, T. A., S. S. Cliff, M. J. Cruz, R. A. VanCuren, and K. D. Perry, "Asian Particulate Transport in Dust and Non-Dust Events", First International Conference on the Trans-Pacific Transport of Atmospheric Contaminants, Seattle, WA, July 27-29, 2000.
- Cahill, T. A., S. S. Cliff, K. D. Perry, M. P. Jimenez-Cruz, and S. A. McHugo, "Size and Time Resolved Anthropogenic Components of Aerosols via Synchrotron X-ray Fluorescence: Application to Asian Aerosol Transport", American Geophysical Union Fall Conference, San Francisco, CA, December 13-17, 1999.
- Pryor, S. C., R. J. Barthelmie, L. L. S. Geernaert, T. Ellermann, and K. D. Perry, "The Role of Aerosols in Dry Deposition to Coastal Waters", 4<sup>th</sup> International Aerosol Symposium, St. Petersburg, Russia, July, 1998.
- Cahill, T. A., K. D. Perry, and D. D. Dutcher, "Comparison of Free-Tropospheric and Marine Boundary Layer Aerosol Mass and Composition in Hawaii", American Geophysical Union Fall Conference, San Francisco, CA, December 6-10, 1998.

- Ezat, U., F. Dulac, W. Guelle, C. Moulin, J. M. Prospero, and K. D. Perry, "Mineral Dust from Africa Over the Caribbean", 6<sup>th</sup> International Symposium of Analytical Sciences, Valencia, Spain, June 22-24, 1998.
- Dutcher, D. D., K. D. Perry, and T. A. Cahill, "Water and Volatile Organic Compound Contributions to Fine Aerosol Gravimetric Mass", A&WMA Specialty Conference on Visual Air Quality, Aerosols and Global Radiation Balance, Bartlett, NH, Sept. 9-12, 1997.
- Cahill, T. A., D. D. Dutcher, K. D. Perry, R. A. Eldred, C. P. Castenada, and R. M. Higashi, "Organic Aerosols at Great Smoky Mountains National Park During SEAVS", A&WMA Specialty Conference on Visual Air Quality, Aerosols and Global Radiation Balance, Bartlett, NH, September 9-12, 1997.
- Cahill, T. A., K. D. Perry, D. D. Dutcher, R. A. Eldred, and D. E. Day, "Size/Compositional Profiles of Aerosols at Great Smoky Mountains National Park During SEAVS", A&WMA Specialty Conference on Visual Air Quality, Aerosols and Global Radiation Balance, Bartlett, NH, September 9-12, 1997.
- Perry, K. D., T. A. Cahill, R. C. Schnell, and J. M. Harris, "Long-Range Transport of Anthropogenic Aerosols to the NOAA Baseline Station at Mauna Loa Observatory, Hawaii", A&WMA Specialty Conference on Visual Air Quality, Aerosols and Global Radiation Balance, Bartlett, NH, September 9-12, 1997.
- Ashbaugh, L. L., R. T. Matsumura, K. D. Perry, O. F. Carvacho, and R. G. Flocchini, "Source profiles of San Joaquin Valley soils", Fifteenth Annual American Association for Aerosol Research Conference, Orlando, FL, October 14-18, 1996.
- Perry, K. D., and T. A. Cahill, "An international collaborative effort to provide sulfate aerosol data for the global climate modeling community", American Geophysical Union Fall Conference, San Francisco, CA, December 11-15, 1995.
- Cahill, T. A., and K. D. Perry, "Asian aerosols at Mauna Loa Observatory, Hawaii", American Geophysical Union Fall Conference, San Francisco, CA, December 11-15, 1995.
- Eldred, R. A., T. A. Cahill, and K. D. Perry, "Saharan dust events in the Eastern USA, Summer, 1993", American Geophysical Union Fall Conference, San Francisco, CA, December 11-15, 1995.
- Perry, K. D., and P. V. Hobbs, "Evidence of new particle production adjacent to marine cumulus clouds", American Geophysical Union Spring Conference, Baltimore, MD, May 23-27, 1994.

## INVITED TALKS

(N=56)

- 2023 "Framing the Problem: Causes and Consequences of a Shrinking Great Salt Lake", Alta Club
- 2023 "Linkages Between the Shrinking Great Salt Lake and Air Quality/Human Health", Northern Utah Resilience and Preparedness Conference, Weber-Morgan Health Department
- 2023 "Framing the Problem: Causes and Consequences of a Shrinking Great Salt Lake", Salt Lake City Mayor's Office
- 2023 "Framing the Problem: Causes and Consequences of a Shrinking Great Salt Lake", Utah Museum of Natural History Copper Club
- 2023 "Framing the Problem: Causes and Consequences of a Shrinking Great Salt Lake", Wasatch Gem Society
- 2023 "Linkages Between the Shrinking Great Salt Lake and Air Quality/Human Health", Utah Public Health Association
- 2023 "Linkages Between the Shrinking Great Salt Lake and Air Quality/Human Health", Utah Academy of Physicians Assistants Conference
- 2023 "Framing the Problem: Causes and Consequences of a Shrinking Great Salt Lake", The Wallace Stegner Center for Land, Resources and the Environment (28<sup>th</sup> Annual Symposium) – Keynote Speaker

- 2023 “Causes and Consequences of a Shrinking Great Salt Lake”, Central Utah Healthcare Coalition
- 2023 “Causes and Consequences of a Shrinking Great Salt Lake”, Geoscience & Society Seminar Series: Natural Hazards, Weber State University
- 2022 “Causes and Consequences of a Shrinking Great Salt Lake”, Salt Lake City Rotary Club
- 2022 “Air Quality Impacts of a Shrinking Great Salt Lake”, Inaugural Great Salt Lake Summit sponsored by the Utah Speaker of the House. Ogden, UT
- 2022 “Dust Across and Urban Summit Transect Research Project Overview”, Utah Department of Environmental Quality, Salt Lake City, UT
- 2022 “GSL Lakebed Exposure Risks”, Clean Air Caucus, Utah State Legislature, Salt Lake City, UT
- 2022 “GSL Lakebed Exposure Risks”, Ogden Rotary Club, Ogden, UT
- 2022 “Linkages Between the Great Salt Lake and Air Quality”, Utah Air Quality Board, Salt Lake City, UT
- 2022 “Linkages Between the Great Salt Lake and Air Quality”, Research Administrative Building Lunch and Learn Seminar Series, University of Utah Office of Research Integrity and Compliance, Salt Lake City, UT
- 2021 “Results of the Great Salt Lake Dust Plume Study”, Salty Science Series, Westminster University, UT (virtual)
- 2020 “Results of the Great Salt Lake Dust Plume Study”, The Nature Conservancy, Arlington, VA (virtual)
- 2020 “Results of the Great Salt Lake Dust Plume Study”, Geological Sciences Department, University of Texas – El Paso
- 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)  
Friends of the Great Salt Lake (2017-present)  
Utah Geological Association (2021-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)



**MEDIA COVERAGE and INTERVIEWS**  
**(Dr. Perry's Great Salt Lake Research: 2019 - present)**

*[My favorites are boxed]*

## Documentary Films (3)

- Downstream: A Backcountry Ski Film About the Shrinking Great Salt Lake (2022): <https://www.youtube.com/watch?v=VyhZrN-nMUA&t=172s>
- Vanishing Oasis (2023): <https://e360.yale.edu/features/2023-film-contest-first-place-great-salt-lake> [*First-Place Winner of the Yale Environment 360 Film Contest*]
- The Last Resort (coming soon 2023): <https://www.youtube.com/watch?v=SHDQrR6xUpI> (trailer)

## International News Outlets (26)

### 2020

- **Associated Press** (01/10/2020) “Rare salt formations appear along the Great Salt Lake”: <https://apnews.com/article/663c091e35a3f6bd7015d643afb49064>

### 2021

- **Associated Press** (07/05/2021) “Wildlife, air quality at risk as Great Salt Lake nears low.”: <https://apnews.com/article/great-salt-lake-air-quality-lakes-wildlife-lifestyle-1adae582035c7f1b03f2a5cb57c0dda8>
  - **The Guardian** (07/06/2021) “Utah’s Great Salt Lake has been shrinking for years. Now it faces a drought.”: <https://www.theguardian.com/us-news/2021/jul/06/utah-great-salt-lake-shrinking-drought>
  - **Independent.co.uk.com** (07/18/2021) “‘We’re on the doorstep of a catastrophe’: America’s ‘Dead Sea’ is drying up and releasing arsenic into the air.”: <https://www.independent.co.uk/climate-change/great-salt-lake-dead-sea-b1886124.html>
  - **DailyMail.UK.com** (07/26/2021) “Great Salt Lake water levels hit lowest level since records began in 1847 as drought grips western US – amid fears exposed lakebed could send arsenic-laced dust into the atmosphere.”: <https://www.dailymail.co.uk/sciencetech/article-9827159/Water-levels-Great-Salt-Lake-hit-historic-low.html>
- **Outside Magazine** (11/08/2021) “The Great Salt Lake is Desolate. It’s Also Divine”: <https://www.outsideonline.com/outdoor-adventure/environment/great-salt-lake-drought-utah-climate-change/>

### 2022

- **Newsweek** (02/03/2022) “Utah’s Shrinking Great Salt Lake Could be Headed for Ecological Disaster.”: <https://www.newsweek.com/utahs-shrinking-great-salt-lake-could-headed-ecological-disaster-1676065>
- **Popular Science** (02/24/2022) “Dust clouds are killing people out West – and the dangers could spread.”: <https://www.popsoci.com/environment/dust-clouds-dangerous-air-pollution/>
- **TF1 – TV** (04/21/2022) “United States: A historic drought in Salt Lake City”: <https://www.tf1.fr/tf1/jt-20h/videos/etats-unis-une-secheresse-historique-a-salt-lake-city-53394745.html>

- **Reuters** (07/14/2022) “Utah’s Great Salt Lake is drying out, threatening ecological, economic disaster.”: <https://www.reuters.com/business/environment/utahs-great-salt-lake-is-drying-out-threatening-ecological-economic-disaster-2022-07-14/>
- **Australian Broadcasting Corporation News** (07/15/2022) “Great Salt Lake in Utah hits record low levels amid two-decade drought, sparking warning of ‘devastating’ impact.”: <https://www.abc.net.au/news/2022-07-16/utah-great-salt-lake-hits-record-low-from-drought/101242292>
- **DiscoverMagazine.com** (07/22/2022) “A Virtual 3D Satellite Fly-Over of Utah’s Once Great Salt Lake Reveals Shocking Shrinkage.”: <https://www.discovermagazine.com/environment/a-virtual-3d-satellite-fly-over-of-utahs-once-great-salt-lake-reveals>
- **BBC News** (07/26/2022) “Utah’s Great Salt Lake is running out of water.”: <https://www.bbc.com/news/av/world-us-canada-62300414>
- **De Standaard** (07/29/2022) “Drying lake in Utah threatens 2.5 million residents.”: [https://www.standaard.be/cnt/dmf20220728\\_97639327](https://www.standaard.be/cnt/dmf20220728_97639327)
- **The Telegraph** (08/19/2022) “Arsenic exposed in drought-hit Great Salt Lake could be an ‘environmental nuclear bomb’”: <https://www.telegraph.co.uk/world-news/2022/08/19/arsenic-exposed-drought-hit-great-salt-lake-could-environmental/>
- **NRC – Nieuws, achtergronden en onderzoeksjournalistiek** (08/29/2022) “Utah sees its famous salt lake drying up.”: <https://www.nrc.nl/nieuws/2022/08/29/utah-ziet-zn-beroemde-zoutmeer-droogvallen-a4140193>
- **Euronews.com** (09/06/2022) “Utah’s Great Salt Lake is disappearing – and it could turn the region into a toxic dust bowl.”: <https://www.euronews.com/green/2022/06/09/utah-s-great-salt-lake-is-disappearing-and-it-could-turn-the-region-into-a-toxic-dust-bowl>
- **Science** (09/09/2022) “At the Great Salt Lake, record salinity and low water imperils millions of birds.”: <https://www.science.org/content/article/great-salt-lake-record-salinity-and-low-water-imperils-millions-birds?cookieSet=1>

## 2023

- **The Guardian** (01/10/2023) “‘Last nail in the coffin’: Utah’s Great Salt Lake on verge of collapse.”: <https://www.theguardian.com/environment/2023/jan/10/utah-great-salt-lake-collapse-imminent>
- **Newsweek** (3/13/2023) “How Great Salt Lake water level stands after drought impacted Utah”: <https://www.newsweek.com/great-salt-lake-utah-drought-snowstorm-1787270>
- **Schweizer Radio und Fernsehen (SRF - Swiss TV)** (03/23/2023) “Great Salt Lake in Utah on the verge of drying out.”: <https://www.srf.ch/play/tv/redirect/detail/b0ba234d-22c9-4234-b2ac-de99bbb94f70>
- **DowntoEarth.org.in** (3/24/2023) “UN 2023 Water Conference: I am hopeful Great Salt Lake won’t go the Aral Sea and Lake Urmia way, says Kevin Perry.”: <https://www.downtoearth.org.in/interviews/water/un-2023-water-conference-i-am-hopeful-great-salt-lake-won-t-go-the-aral-sea-and-lake-urmia-way-says-kevin-perry-88437>
- **ARD German Public Radio** (03/27/2023) “Drought and too much water consumption”: <https://www.ardaudiothek.de/episode/notizen-aus-aller-welt/trockenheit-und-zu-viel-wasserverbrauch/br24/12523981/>
- **CCMA TV3 – Barcelona, Spain** (04/29/2023) “Utah’s Great Salt Lake is Shrinking. What are the Dangers?”: <https://www.ccma.cat/tv3/alacarta/telenoticies/el-gran-llac-salat-de-utah-sencongeix-quins-son-els-perills/video/6217659/>
- **Le Monde** (06/07/2023) “The American West faces a new frontier: Climate change.”: [https://www.lemonde.fr/en/united-states/article/2023/06/17/the-american-west-faces-a-new-frontier-climate-change\\_6033039\\_133.html](https://www.lemonde.fr/en/united-states/article/2023/06/17/the-american-west-faces-a-new-frontier-climate-change_6033039_133.html)

- **Verdens Gang (Norwegian Newspaper)** (06/22/2023) “To the Last Drop.”: <https://www.vg.no/nyheter/utenriks/i/Knber6/til-den-siste-draapen>
- **National Geographic** – coming soon...

## National News Outlets (39)

### 2019

- **Catalyst Magazine** (05/31/2019) “Meet the Dust Doctor.”: <https://catalystmagazine.net/meet-the-dust-doctor/>

### 2021

- **The Forum** (03/06/2021) “Salty Science Series offers insight into potential environmental impacts of Great Salt Lake.”: <https://www.wcforummedia.com/salty-science-series-offers-insight-into-potential-environmental-impacts-of-great-salt-lake/>
- **CNN - The Lead with Jake Tapper** (07/17/2021) “Great Salt Lake is shrinking fast. Scientists demand action before it becomes a toxic dustbin.”: <https://www.cnn.com/2021/07/17/us/great-salt-lake-drought-dying/index.html>
- **The New York Times** (09/07/2021) “Booming Utah’s Weak Link: Surging Air Pollution.”: <https://www.nytimes.com/2021/09/07/us/great-salt-lake-utah-air-quality.html>
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### **Additional GSL Dust-Related Outreach Activities for Kevin Perry (2019-present)**

- **Perry** was invited to speak about the linkages between air quality and the shrinking Great Salt Lake at the following policy-making organizations:
  - Hinckley Institute of Politics
  - Inaugural Great Salt Lake Summit (Utah State Legislature)
  - Salt Lake City Mayor's Office
  - The Wallace Stegner Center for Land, Resources and Environment
  - Utah Air Quality Board
  - Utah Clean Air Caucus (Utah State Legislature)
  - Utah Department of Environmental Quality
- **Perry** was invited to speak about the health implications of blowing dust at the following healthcare organizations:
  - Central Utah Healthcare Coalition
  - Grand Medical Rounds, University of Utah Medical School
  - Neurobiology Department, University of Utah
  - Utah Academy of Physicians Assistants
  - Utah Public Health Association
  - Weber-Morgan County Health Department
- **Perry** participated in the following educational outreach activities related to Great Salt Lake dust:
  - Alta High School (lecture)
  - Challenger Middle School (Sandy) (science fair project)
  - Davis High School (lecture)
  - Horizonte Instruction and Training Center (HS lecture and field trip)
  - Intermountain Christian School (lecture)
  - University of Texas – El Paso undergraduate students (field trip)
  - Weber State University Geoscience & Society Seminar Series
- **Perry** was invited to speak about dust from the Great Salt Lake playa at the following public organizations:
  - Alta Club
  - Northern Wasatch Oasis
  - Ogden Rotary Club
  - Salt Lake City Rotary Club
  - Salt Lake Collaborative (Foothill Public Library)
  - Salt Lake Oasis
  - The Nature Conservancy
  - University of Utah Office of Research Integrity and Compliance
  - Utah Museum of Natural History Copper Club
  - Wasatch Gem Society