

JUDITH C. CHOW

Nazir and Mary Ansari Chair in Entrepreneurialism and Science and Research Professor
Division of Atmospheric Sciences, Desert Research Institute, Nevada System of Higher
Education

<http://www.dri.edu/judith-chow>

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Education

Sc.D.	Environmental Science and Physiology	1985	Harvard University, Cambridge, MA
M.S.	Environmental Health Sciences	1983	Harvard University, Cambridge, MA
B.S.	Biology/Chemistry	1974	Fu-Jen Catholic University, Taiwan

Background

Dr. Judith C. Chow, Nazir and Mary Ansari Chair in Entrepreneurialism and Science and Research Professor in the Division of Atmospheric Sciences (DAS) at the Desert Research Institute (DRI; <http://www.dri.edu>), has more than 40 years of experience in atmospheric, air quality, and environmental health research and education. Dr. Chow is a member of the graduate faculty in the Department of Environmental Science and Atmospheric Sciences Program at the University of Nevada, Reno (UNR), where she advises graduate students working on Master and Doctoral degrees. As founder and leader of DRI's Environmental Analysis Facility (EAF), she heads a group of research scientists and technicians in developing and applying advanced analytical methods to characterize suspended atmospheric particles for source attribution and their effects on health, climate, visibility, ecosystems, and cultural artifacts. Her current strategic priorities include expansion of EAF capabilities to obtain more information from archived samples of existing monitoring networks using thermal and mass spectrometric technologies; improving detection of brown carbon in speciation network samples; applying microsensors to human exposure estimates and fugitive dust control; and simulating source profile changes using a photochemical flow tube reactor. Current and recent projects include assessment of contributions from seaport operations to adverse air quality in southern California; measuring real-world emissions in Canada's Oil Sands Region; designing air quality networks in developing countries for the World Bank; and evaluating effects of photochemical aging on biomass burning emissions. She has been principal investigator or a major collaborator on more than 50 large atmospheric studies and many smaller ones. During her career at DRI, Dr. Chow has established cooperative agreements and collaborative research projects with environmental scientists in Hong Kong Special Administrative Region, mainland China, Taiwan, Japan, Korea, India, Canada, Mexico, El Salvador, Chile, Brazil, New Zealand, Australia, Austria, Germany, Slovenia, Croatia, Italy, South Africa, and Antarctica. Her research leadership crosses traditional university departmental lines – involving chemists, physicists, biologists, engineers, biostatisticians, toxicologists, epidemiologists, and physicians. Dr. Chow is the principal author or co-author of >590 journal articles, book chapters, and printed conference papers and >260 technical reports. She has been recognized by ISI HighlyCited.com in ecology and environment, with more than 28,000 citations and an h-index of 83, and is one of Stanford University's "Top 2% of the Worlds' Most Cited Scientists."

Professional Experience

2010–Present Adjunct Professor, Xi'an Jiaotong University, Xi'an, Shaanxi Province,
China.

- 2007–Present Nazir and Mary Ansari Chair in Entrepreneurialism and Science, Division of Atmospheric Sciences, Desert Research Institute, Reno, NV.
- 2007–Present Adjunct Professor, Nankai University, Tianjin, China.
- 2005–Present Adjunct Professor, Institute of Earth Environment, Chinese Academy of Sciences, Xi’an, China.
- 2004–Present Graduate Faculty, Department of Environmental Sciences, University of Nevada, Reno, NV.
- 1992–Present Research Professor, Division of Atmospheric Sciences, Desert Research Institute, Reno, NV.
- 1992–Present Graduate Faculty, Atmospheric Sciences Program, Department of Physics, University of Nevada, Reno, NV.
- 1989–1992 Associate Research Professor, Energy and Environmental Engineering Center, Desert Research Institute, Reno, NV.
- 1985–Present Director, Environmental Analysis Facility, Desert Research Institute, Reno, NV.
- 1985–1989 Assistant Research Professor, Energy and Environmental Engineering Center, Desert Research Institute, Reno, NV.
- 1982–1985 Environmental Consultant, Environmental Research and Technology, Inc., Concord, MA.
- 1982–1985 Technical Interpreter, Environmental Research and Technology, Inc., Concord, MA; Harvard University, Cambridge, MA.
- 1982–1985 Research Fellow, Harvard University, School of Public Health, Boston, MA.
- 1982–1984 Research Assistant, Energy and Environmental Policy Center, Kennedy School of Government, Harvard University, Cambridge, MA.
- 1977–1982 Environmental Scientist and Technician, Environmental Research and Technology, Inc., Concord, MA.
- 1976–1977 Chemistry Technician, Soil Science Department, North Carolina State University, Raleigh, NC.
- 1974–1976 Biology and Health Science Teacher, Dominican High School and Chin-Ching Junior High School, Kaohsiung, Taiwan.

Honors and Awards

- Chartered Member of U.S. EPA’s Clean Air Science Advisory Committee, 2021-2024.
- Desert Research Institute 35-Year Distinguished Service Award, 2021.
- Listed in the 2021 Stanford University’s “Top 2% of Most-Cited Scientists” (<https://data.mendeley.com/datasets/btchxktzyw/2>).
- Atmospheric Environment 2019 Haagen-Smit Prize for Best Paper for “Chow, J.C., Watson, J.G., Pritchett, L.C., Pierson, W.R., Frazier, C.A., Purcell, R.G., (1993). Chow, J.C., Watson, J.G., Pritchett, L.C., Pierson, W.R., Frazier, C.A., Purcell, R.G., (1993). The DRI Thermal/Optical Reflectance carbon analysis system: Description, evaluation and applications in U.S. air quality studies. *Atmospheric Environment*, 27A, 1185-1201.”
- Arthur C. Stern 2016 Distinguished Paper Award for “Cao, J.J., Shen, Z.X., Chow, J.C., Lee, S.C., Watson, J.G., Tie, X.X., Ho, K.F., Wang, G.H., Han, Y.M., (2012). Winter and summer PM_{2.5} chemical compositions in 14 Chinese cities. *Journal of the Air & Waste Management Association*, 62, 1214-1226. 10.1080/10962247.2012.701193”
- Invited co-author of 2017 A&WMA Critical Review “Hidy, G.M., Mueller, P.K., Altshuler, S.L., Chow, J.C., Watson, J.G., (2017). Critical review: Air quality measurements—From rubber bands to tapping the rainbow. *Journal of the Air & Waste Management Association*, 67, 637-668.”
- Desert Research Institute 30-Year Distinguished Service Award, 2016.
- Chinese Society of Particuology’s Outstanding Contribution Award, 2016.

Arthur C. Stern 2016 Distinguished Paper Award for “The IMPROVE_A temperature protocol for thermal/optical carbon analysis: Maintaining consistency with a long-term database”, JAWMA, vol. 57, p.1014.

Air & Waste Management Association’s 2014 Charles W. Gruber Association Leadership Award.

Invited Keynote Presentation, The 7th World Congress on Particle Technology, Chinese Society of Particuology, May 2014.

Haagen-Smit 2011 Clean Air Award for Air Quality Research, California Air Resources Board, Sacramento, CA, May 2012.

Sanqin Friendship Award, The People’s Government of Shaanxi Province, China, November 2011 (Presented March 2012).

Frontiers of Environmental Science & Engineering (FESE)’s 2011 Best Paper Award for “Wang, X.L.; Robbins, C.; Hoekman, S.K.; Chow, J.C.; Watson, J.G.; Schuetzle, D. (2011). Dilution sampling and analysis of particulate matter in biomass-derived syngas. *Frontiers of Environmental Science and Engineering in China*, 5(3):320-330.”

Certificate of Appreciation for service as Chair of the Publication Committee, 2006–2011, Air & Waste Management Association, Pittsburgh, PA, June 2011.

Senatorial Recognition Award, John Ensign, U.S. Senator, Washington, DC, January 2011.

Certificate of Appreciation for service on the Board of Directors, 2007–2010, Air & Waste Management Association, Pittsburgh, PA, June 2010.

Certificate of Appreciation for organization of the International Specialty Conference on “Leapfrogging Opportunities for Air Quality Improvement,” Air & Waste Management Association, Xi’an, China, May 2010.

Certificate of Appreciation for contribution to the success of the International Specialty Conference on “Aerosol & Atmospheric Optics: Visual Air Quality and Radiation,” Air & Waste Management Association, Moab, UT, May 2008.

Certificate of Appreciation for commitment and dedication to the Science Board of the Atmospheric Radiation Measurement (ARM) Climate Research Facility (ACRF)d, Department of Energy, Washington, DC, 2004-2007.

Certificate of Appreciation for leadership and dedication as Chair of the Critical Review Committee, 2001–2007, Air & Waste Management Association, Pittsburgh, PA, June 2007.

Guest Professorship in recognition of honor and achievement plus acknowledgement of the esteem of Nankai University, Tianjin, China, July 2007.

Nazir and Mary Ansari Chair in Entrepreneurialism and Science Award, Nazir and Mary Ansari Foundation, Reno, NV, May 2007.

Certificate of Visitation, The Legislature of the State of Nevada, upon the request of Senator William J. Raggio, Dr. Judith Chow was extended the privilege of the floor of the Senate, Carson City, NV, March 2007.

Certificate of Appreciation, 9th China Aerosol Conference and 3rd Cross-Strait Aerosol Technical Conference on “Air Pollution: Science and Policy,” Guangzhou, China, January 2007.

Certificate of Recognition, Technical Council: Air Group Coordinator, 2001–2006, Air & Waste Management Association, Pittsburgh, PA, June 2006.

Certificate of Appreciation for outstanding efforts as Chair of the Editorial Review Board, 2001–2006, Air & Waste Management Association, Pittsburgh, PA, June 2006.

Outstanding Mega Poster Session Award, the 99th Annual Air & Waste Management Association Annual Conference and Exhibition, New Orleans, LA, June 2006.

Air Quality Expert Award for her contributions to the improvement of air quality science in Taiwan, Environmental Protection Administration, Executive Yuan, and the National Central University, Jhongli, Taiwan, June 2006.

Certificate of Appreciation for service and contributions as a member of the EM Editorial Advisory Committee, 2002–2006, Air & Waste Management Association, June 2006.

Certificate of Appreciation for outstanding service to the Board of Environmental Studies and Toxicology, 2002–2005, National Research Council, Washington, DC, 2005.

Certificate of Appreciation from the 4th Asian Aerosol Conference–AAC-2005, Indian Aerosol Science and Technology Association, Mumbai, India, December 2005.

Certificate of Educational Credit for completing “Managing Today’s IT and Technical Professionals,” American Management Association, New York, NY, 2004.

Certificate of Appreciation for invaluable contribution to the International Conference on “High-Tech Industry, Best Air Pollution Control Technology,” Environmental Protection Bureau, Taoyuan County Government, Taoyuan, Taiwan, May 2004.

Certificate of Appreciation for contribution to the Workshop on “Emission Source Characterization,” Air & Waste Management Association, Hong Kong Section, Hong Kong Polytechnic University, Hong Kong University of

Science and Technology, and Shenzhen Graduate School, Peking University, Hong Kong Special Administrative Region, November 2004.

Certificate of Appreciation for outstanding service to the Committee on “Research Priorities for Airborne Particulate Matter,” 1997–2004, National Research Center, Washington, DC, 2004.

Certificate of Recognition as the Technical Council Measurement (AM) Division Chair, 1998–2002, Air & Waste Management Association, Pittsburgh, PA, June 2002.

Frank A. Chambers Excellence in Air Pollution Control Award, Air & Waste Management Association, Pittsburgh, PA, June 2002.

Fellow Member Award, Air & Waste Management Association, Pittsburgh, PA, June 2001.

Regents’ Researcher Award, Board of Regents, Nevada System of Higher Education, Reno, NV, May 2001.

Award of Recognition for organizing the International Specialty Conference on “PM_{2.5}: A Fine Particle Standard,” Air & Waste Management Association, Eastern Sierra Chapter, Reno, NV, June 1999.

Certificate of Recognition for Excellence in “Achievement in Science, Math, and Engineering,” Women in Science and Engineering Program, University and Community College System of Nevada, Reno, NV, October 1998.

Certificate of Appreciation for serving as Technical Program Chair for the International Specialty Conference on “PM_{2.5}: A Fine Particle Standard,” Air & Waste Management Association, Long Beach, CA, January 1998.

Distinguished Fellow, Institute of Environmental Engineering, National Sun Yat-Sen University, Kaohsiung, Taiwan, September 1998.

Outstanding Faculty Member Award, Board of Regents, University and Community College System of Nevada, Reno, NV, 1997–1998.

Certificate of Appreciation for Commitment and Support in providing the Environmental Lecturers for the Symposium on “Air Pollution-Recent Issues and Development,” Air & Waste Management Hong Kong Section, Hong Kong Special Administrative Region, December 1997.

Alessandro Dandini Medal of Science, Desert Research Institute, Reno, NV, 1997.

Invited Environmental Lecturer, Hong Kong Section, Air & Waste Management Association, Hong Kong Special Administrative Region, November 1997.

Environmental Fellow, Nankai University, Tianjin, China, October 1996.

Outstanding Faculty Member Award, Board of Regents, University and Community College System of Nevada, Reno, NV, 1995–1996.

Certificate of Appreciation for valuable contributions as an author of *Particulate Matter Science for Policy Makers: A NARSTO Assessment*, NARSTO, February 1995.

Invited author of the A&WMA 1995 Critical Review: “Chow, J.C., (1995). Critical review: Measurement methods to determine compliance with ambient air quality standards for suspended particles. *Journal of the Air & Waste Management Association*, 45, 320-382.”

Woman of Achievement Award. Nevada Women’s Fund, Reno, NV, October 1995.

Distinguished Environmental Scientist Award, Taiwan Power Company and Taiwan University, Taipei, Taiwan, October 1995.

Honorary Research Associate. Schonland Research Centre for Nuclear Sciences, University of the Witwatersrand, Johannesburg, South Africa, January 1993.

Certificate of Appreciation for serving as Technical Program Chair for the International Specialty conference on “PM₁₀ Standards and Nontraditional Particulate Source Controls,” Air & Waste Management Association, San Francisco, CA, January 1992.

Outstanding Achievement Recognition Award, Board of Regents, University of Nevada, Reno, NV, October 1990.

Memberships

Air & Waste Management Association (A&WMA), 1980-present.

American Association of Aerosol Research (AAAR), 2000-present.

Earth Team (E-Team, an international volunteer association of environmental advisors helping developing nations address pollution issues).

Committees and Offices

Journal Review/Editorial

Guest Associate Editor, *GeoHealth* and *JGR-Atmospheres* on special collections: *Atmospheric PM_{2.5} in China: Indoor, Outdoor, and Health Effects* and *Atmospheric PM_{2.5} in China: Physics, Chemistry, Measurements, and Modeling*. May 2019–May 2020.

Co-Guest Editor, Special Issue “Recent Advances for Aerosol and Environment Study in Asia”, *Particuology*, February 2013.

Member, American Meteorological Society, Biometeorology Award Committee, 2012 – 2016.

Co-Guest Editor, Special Issue “Leapfrogging Opportunities for Air Quality Improvement,” *Journal of the Air & Waste Management Association*, November 2011.

Associate Editor, *Atmospheric Research*, 2010–2012.

Member, Editorial Board, *Journal of Earth Environment*, 2010– present.

Thematic Editor, *Particuology*, 2010–present.

Member, Editorial Advisory Board, *Atmospheric Pollution Research*, 2009–present.

Member, Editorial Board, *Journal of Environmental and Public Health*, 2009–2014.

Editor, *Aerosol and Air Quality Research (AAQR)*, an international journal, 2008–2014.

Chair, Publications Committee for the *Journal of the Air & Waste Management Association* and *EM*, 2006–2011.

Member, Editorial Board, *Journal of Environmental Science and Health, Part A*, 2006–2010.

Member, Board of Editors, *Journal of the Chinese Institute of Environmental Engineering*, 2006–present.

Member, Editorial Board, *Air Quality, Atmosphere and Health*, 2006–2021.

Guest Editor-in-Chief, special aerosol issue in 2006, *China Particuology*.

Member, Technical Committee, International Specialty Conference on “Particulate Matter Supersites Program and Related Studies,” American Association for Aerosol Research (AAAR), Atlanta, GA, 2005.

Co-Editor-in-Chief, *Aerosol and Air Quality Research (AAQR)*, an international journal, 2003–2008.

Member, Editorial Advisory Committee, *EM*, 2002–2006.

Member, Editorial Review Board, *The Scientific World* electronic journal, 2001—present.

Chair, Editorial Review Board, *Journal of the Air & Waste Management Association*, 2001–2005.

Chair, Air & Waste Management Association Critical Review sub-committee, 2000–2007 and 2010.

Member, A&WMA Editorial Review Board, 1999–present.

Member, A&WMA Publications Committee, 1999–present.

Member, Air & Waste Management Association Critical Review sub-committee, 1995–present.

Member, Editorial Review Board, *Aerosol and Air Quality Research (AAQR)*, an international journal, 2002–present.

External reviewer for the National Science Foundation, National Research Council, Department of Defense (DOD) Strategic Environmental Research and Development Program (SERDP), Health Effects Institute, Mickey Leland National Urban Air Toxics Research Center, Southwest Center for Environmental Research and Policy, Department of Energy (DOE) Atmospheric Radiation Measurement (ARM) Program, Environmental Protection Agency (EPA), and various journals (e.g., *Inhalation Toxicology*, *Journal of Geophysical Research*, *Energy & Fuels*, *Advances in Environmental Research*, *Environmental Monitoring and Assessment*, *Atmospheric Environment*, *Aerosol Science and Technology*, *Journal of Aerosol Science*, *Journal of the Air & Waste Management Association*, *Atmospheric Chemistry and Physics*, *Atmospheric Measurements and Techniques*, *Aerosol Science and Engineering*, *Analytical and Bioanalytical Chemistry*, *Environmental Science and Technology*, *Science of the Total Environment*, *Chemosphere*, *Atmospheric Research*, *Atmospheric Pollution Research*, *Air Quality, Atmosphere, and Health*, *Advances in Environmental Research*, *Journal of Environmental Engineering*, *Journal of Exposure Analysis and Environmental Epidemiology*, *Environmental Pollution*, *Circulation*, *Particuology*, and *Aerosol and Air Quality Research*.)

Conference/Workshop Committee Memberships

Invited Plenary Presenter at the Air Pollution Conference Brazil and 4th Annual CMAS South America, Belo Horizonte, Brazil, 24 July 2019.

Invited Plenary Presenter at the 1st International Symposium on Aerosol Characterization and Therapies, National Sun-Yat-Sen University, Kaohsiung, Taiwan, 29 October 2019.

Invited Plenary Presenter at the 16th Cross-Strait Aerosol Technology Symposium, Luoyang, China, 16 November 2019.

International Advisory Committee Member, 18th World Clean Air Congress Conference, Istanbul, Turkey, 23-27 September 2019.

Scientific Committee Member, Air Quality in Megacities, 2017-present.

Member, Technical Steering Committee, A&WMA Visibility Special Conference “Aerosol and Atmospheric Optics: Visibility and Air Pollution,” Bryce Canyon, Utah, 2017-present.

Co-Chair, Scientific Steering Committee, Plenary Presenter, and Keynote Address Speaker at the Conference on “Atmospheric PM_{2.5} in China: Change, Impact, Mitigation, and Global Perspective”, American Geophysical Union (AGU) and Chinese Academy of Science (CAS), Xi’an, China, 16-20 October 2018.

Member, International Scientific and Advisory Committee, 11th International Conference on “Air Quality – Science and Applications” Barcelona, Spain, 12-16 March 2018.

Member, Scientific Committee, The Fifth International Symposium on Regional Air Quality Improvement in Rapidly Developing Economic Regions, Guangzhou, China, 16-19 November 2017.

Member, Technical Steering Committee for A&WMA Visibility Special Conference “Aerosol and Atmospheric Optics: Visibility and Air Pollution,” Jackson Hole, WY, 26-30 September 2016.

Member, International Advisory Committee, World Clean Air Congress and Better Air Quality Conference, Ulsan, South Korea, August 29-September 2, 2016.

Member and Plenary Speaker, International Committee for the 8th International Workshop on Sand/Duststorms and Associated Dustfall, Lisbon, Portugal, 1-4 May 2016.

Member, International Scientific and Advisory Committee for the 10th International Conference on Air Quality – Science and Application, Milan, Italy, 14-18 March 2016.

Invited Speaker at the 12th National Aerosol Conference and 13th Cross Strait Workshop for Aerosol Science & Technology in Chongqing, China, 23 October 2015.

Invited Speaker at the Workshop on Receptor Modeling of Particulate Air Pollutants, New Delhi, India, 8 January 2015.

Invited Speaker at the Second Sino-U.S. Workshop on Sustainability Issues at the Nexus of Energy, Water, Climate, and Air Pollution (NEWCAP), Pasadena, CA, 9 September 2014.

Invited Speaker at the Second International Symposium on Environmental Solutions for Industrial Cities, Ulsan, South Korea, 2 September 2014.

Invited Speaker at The 7th World Congress on Particle Technology/Cross-Strait Workshop, Beijing, China, 19 May 2014.

Invited Expert Panel Speaker at the FAIRMODE Technical Meeting – WG3 Source Apportionment Workshop, Kjeller, Norway, 28 April 2014.

Invited Speaker at The 9th International Conference on Air Quality-Science and Application, Garmish-Partenkirchen, Germany, 28 March 2014.

Invited Plenary Lecturer at the 12th Cross-Strait Technical Seminar and 3rd Aerosol Air Pollution Technology Seminar, Beijing, China, 19 May 2014.

Member, International Scientific and Advisory Committee, 9th International Conference on Air Quality–Science and Application, Garmisch-Partenkirchen, Germany, 23-28 March 2014.

Invited Plenary Lecturer at the 9th International Conference on Air Quality–Science and Application, Garmisch-Partenkirchen, Germany, 28 March 2014.

Member, Academic Committee, The 4th International Workshop on Regional Air Quality Management in Rapidly Developing Economic Regions, Hong Kong, China, January 2014.

Invited Plenary Lecturer at the 4th International Workshop on Regional Air Quality Improvement, Hong Kong, China, 14 January 2014.

Invited Speaker at the A&WMA Eastern Sierra Chapter on “Effects of Black and Organic Carbon and Emission Inventory Development”, Desert Research Institute, Reno, NV, 5 April 2013.

Invited Speaker at the Terra Cotta General Dedication. Desert Research Institute, Reno, NV, 8 February 2013.

Invited Academic Committee Member, The 3rd International Workshop on Regional Air Quality Improvement in Rapidly Developing Economic Regions *Environment, Climate, and Energy*, Guangzhou, China.

Invited Speaker at the Better Air Quality 2012 Symposium on Improving Air Quality Monitoring Systems in Asia, 4 December 2012.

Invited Speaker at the “Promise and Problems of Advanced Particulate Monitoring and Analysis Methods for Routine Networks” panel at the Air & Waste Management Association Aerosol and Atmospheric Optics: Visibility and Pollution Specialty Conference, 28 September 2012.

Invited Speaker at the “PM_{2.5} Sampling and Analysis for Extinction Calculation” for the Air & Waste Management Association’s “Aerosol and Atmospheric Optics: Visibility and Pollution Specialty Conference,” 24 September 2012.

Invited Lecturer at the two-day workshop on “Air Quality and Multipollutant Measurements at the Institute of Earth Environment,” Chinese Academy of Sciences, Xi’an, China, 20-21 September 2012.

Invited Lecturer at the “Symposium on Microscopic Applications to Ultrafine Particle/PM_{2.5}/PM₁₀ and Source Apportionment,” Xi’an, China, 18 July 2012.

Invited Speaker at the “Special Symposium: Meeting Tomorrow’s Challenges in Air Resources,” University of Florida, Gainesville, Florida, 27 April 2012.

Invited Lecturer at the “Workshop on Novel Approaches for PM_{2.5} and Visibility Measurements for Source Apportionment,” 3 March 2012.

Member of the International Scientific and Advisory Committee, 8th International Conference on Air Quality – Science and Application, (Athens, Greece), March 2012.

Member, Conference Committee, Air & Waste Management Association Aerosol and Atmospheric Optics: Visibility and Pollution Specialty Conference, 2011–2012.

Invited Plenary Lecturer, The Third International Workshop on “Regional Air Quality Improvement in Rapidly Developing Regions,” Guangzhou, China, November 2011.

Invited Plenary Lecturer, International Conference on “Aerosol Science and Technology,” Tainan, Taiwan, October 2011.

Invited Plenary Lecturer and Member of the Organizing Committee, 2nd International Conference on “Air Pollution and Control,” Antalya, Turkey, September 2011.

Invited Plenary Lecturer on “Managing Multiple Pollutants and Multiple Effects,” Clean Air Society of Australia and New Zealand (CASANZ) Conference, Auckland, New Zealand, July 2011.

Member, Organizing Committee, The Mainland-China-Taiwan-Pacific Rim Conference on “Climate and Air Quality,” Waikoloa, Kona, HI, March 2011.

Technical Program Chair, International Specialty Conference on “Leapfrogging Opportunities for Air Quality Improvement,” Air & Waste Management Association, Xi’an, China, May 2010.

Member, International Scientific Committee (ISC), International Conference on “Sustainable Urbanization,” Hung Hom, Kowloon, Hong Kong Special Administrative Region, November 2010.

Member, International Scientific and Advisory Committee (ISAC), International Conference on “Urban Air Quality” (UAQ), co-sponsored by the Air & Waste Management Association, Istanbul, Turkey, March 2009.

Member, Scientific Advisory Committee, 11th International Conference on “Atmospheric Sciences and Applications for Air Quality,” Jinan, China, April 2009.

Member, Technical Program Committee, International Specialty Conference on “Aerosol and Atmospheric Optics: Visual Air Quality and Radiation,” Air & Waste Management Association, Moab, UT, May 2008.

Member, Technical Program Committee, 4th Asian Aerosol Conference (AAC-2005), Mumbai, India, December 2005.

Member, General Technical Program Committee, International Specialty Conference on “Particulate Matter Supersites Program and Related Studies,” American Association for Aerosol Research, Atlanta, GA, February 2005.

Member, Conference Committee, International Specialty Conference on “Regional and Global Perspectives on Haze: Causes, Consequences and Controversies,” Air & Waste Management Association, Asheville, NC, October 2004.

Letter of Appointment, Health Effects/Impacts Work Group, American Academy of Environmental Engineers’ Air Quality Compliance Workshop, Annapolis, MD, May 1999.

Chair, Technical Steering Committee, NARSTO Technical Conference on “Tropospheric Aerosols: Science and Decisions in an International Community,” co-sponsored by the Air & Waste Management Association and the U.S. Department of Energy, Querétaro, Mexico, October 2000.

Chair, Atmospheric Sciences Topic, International Specialty Conference on “PM₂₀₀₀: Particulate Matter and Health—The Scientific Basis for Regulatory Decision Making,” Air & Waste Management Association, Charleston, SC, January 2000.

Chair, Technical Program Committee, International Specialty Conference on “PM_{2.5}: A Fine Particle Standard,” Air & Waste Management Association/U.S. Environmental Protection Agency, Long Beach, CA, January 1998.

Member, Technical Program Committee, Air & Waste Management Association’s 91st Annual Meeting, San Diego, CA, June 1998.

Member, Technical Program Committee, Air & Waste Management Association’s 90th Annual Meeting in Toronto, Canada, June 1997.

Member, Technical Program Committee, International Symposium on “Acid Rain & Electric Utilities II,” Air & Waste Management Association, Scottsdale, AZ, January 1997.

Member, Technical Program Committee, International Symposium on “Acid Rain & Electric Utilities,” Air & Waste Management Association, Tempe, AZ, January 1995.

Member, Technical Program Committee, International Specialty Conference on “Aerosol and Atmospheric Optics: Radiation Balance and Visual Air Quality,” Air & Waste Management Association/American Geophysical Union, Snowbird, UT, September 1994.

Member, Technical Program Committee, International Specialty Conference on “Regional Photochemical Measurement and Modeling Studies,” Air & Waste Management Association/U.S. Environmental Protection Agency, San Diego, CA, November 1993.

Chair, Technical Program Committee, International Specialty Conference on “PM₁₀ Standards and Nontraditional Particulate Source Controls,” Air & Waste Management Association/U.S. Environmental Protection Agency, Scottsdale, AZ, January 1992.

Expert Panels

International Expert and Steering Committee Member, World Bank’s Pollution Management and Environmental Health Program (PMEH) Steering Committee, 2016 – 2019.

Member, Science Advisory Committee for the EPA Air, Climate, and Energy (ACE) Center at Harvard University, 2016 – 2021.

Member, Particulate Matter Review Panel, Clean Air Scientific Advisory Committee (CASAC), U.S. Environmental Protection Agency, 2016 – 2019.

Member, National Resource Council (NRC) Committee on Sources of Lead Contamination at or near Superfund Sites, 2016 – 2017.

Advisory Council Member, South Coast Air Quality Management District (SCAQMD), 2016-present.

Chartered Member of Clean Air Scientific Advisory Committee (CASAC), U.S. Environmental Protection Agency, 2015 – 2018.

Member, Sulfur Oxides Panel Review Panel for the U.S. EPA Clean Air Scientific Advisory Committee (CASAC), 2015 – 2018.

Member, Oxides of Nitrogen Review Panel, U.S. EPA Clean Air Scientific Advisory Committee (CASAC), 2015 – 2018.

Member, Secondary NAAQS for Oxides of Nitrogen and Sulfur Review Panel, U.S. EPA Clean Air Scientific Advisory Committee (CASAC), 2015 – 2018.

Reviewer, Peer Reviewed Medical Research Program Investigator-Initiated Research Award, U.S. Army Medical Research and Materiel Command, video- and tele-conference, 17-22 July and 3 December 2015.

Reviewer, Science to Achieve Results (STAR) Graduate Fellowship, U.S. Environmental Protection Agency, 8-11 September 2015.

Reviewer, National Science Foundation (NSF) Environmental Chemical Sciences (ECS) Panel A – FY13, via WebEx (online), 28–29 March 2013.

Reviewer, Small Business Innovation Research Air Quality Panel, U.S. Environmental Protection Agency, 2012.

Member, Technical Advisory Group, Multiple Air Toxics Study (MATES II, III, IV, V), South Coast Air Quality Management District, 2012 – present.

Member, Scientific and Technological Achievement Awards (STAA) Committee, Scientific Advisory Board (SAB), U.S. Environmental Protection Agency, 2012 – 2017.

Member, External Advisory Board, University of Arizona Superfund Program, 2010 – present.

Member, Peer Review Panel for Particulate Matter, National Center for Environmental Assessment’s Integrated Science Assessment, U.S. Environmental Protection Agency, 2008.

Member, Three-year Research Plan Steering Committee, South Coast Air Quality Management District, 2007–2010.

Science Advisor, The Chinese National Key 863 project “The Establishment of Pearl River Delta Regional Air Pollution Complex Monitoring Network,” 2007 – 2010.

Expert Panel Member, U.S. Environmental Protection Agency, “Outdoor Air Quality Indicators Relevant to EPA’s Report on the Environment,” 2007 – 2008.

Member, Science Advisory Board (SAB) Workgroup on Air Monitoring Plan for Hurricane Katrina, U.S. Environmental Protection Agency, September 2005.

Member, Committee on Energy Futures and Air Pollution in Urban China and the United States, National Academy of Engineering, 2005 – 2007.

Member, Ambient Air Monitoring and Measurements Subcommittee (AAMM), U.S. EPA Clean Air Scientific Advisory Committee’s (CASAC), 2004-2017.

Member, Science Board, Atmospheric Radiation Measurement (ARM) Climate Research Facility, U.S. Department of Energy, 2004 – 2007.

Member, Technical Advisory Panel, Multiple Air Toxics Exposure Study (MATES) II and III, South Coast Air Quality Management District, 2003 – 2008.

Member, Board of Environmental Studies and Toxicology (BEST), National Research Council (NRC), 2002–2005.

Member, Steering Committee, Advanced Air Pollution Research Plan, South Coast Air Quality Management District, 2002 – 2005.

Member, External Scientific Advisory Committee (ESAC), National Environmental Respiratory Center (NERC), Lovelace Respiratory Research Institute, 2001 – present.

Member, Researcher Award Selection Committee, University and Community College System of Nevada's Board of Regents, 2001.

Member and Technical Expert, PM_{2.5} Chemical Speciation Workgroup Peer Review Panel, U.S. Environmental Protection Agency, 1998–2000.

Member, Committee on Research Priorities for Airborne Particulate Matter, National Research Council, 1998 – 2003.

Stakeholder, Air and Water Stakeholder Advisory Committee for the Advanced Monitoring Systems Pilot, Environmental Technology Verification Program, U.S. Environmental Protection Agency, 1998 – 2009.

Member, Pollution Control Working Group Panel, China Council for International Cooperation on Environment and Development, China, 2000 – 2008.

Member, Science Advisory Board, Strategic Environmental Research & Development Program (SERDP), Department of Defense (DOD), 2000 – 2007.

Member, Science Advisory Board, Environmental Chemistry Program, Carlsbad Environmental Monitoring and Research Center, New Mexico State University, 2000 – 2001.

Member, Technical Committee, the Center for Environmental Resource Management, University of Texas at El Paso, 1998 – 2009.

Member, Air Toxics Study Technical Review Group, South Coast Air Quality Management District, 2000–2005.

Member, Fine Particulate Matter Science Assessment Task Force, NARSTO, 2000 – 2006.

Member, Ambient Air Monitoring and Methods (AAMM) Subcommittee, Clean Air Scientific Advisory Committee (CASAC), U.S. Environmental Protection Agency, 2004 – 2010.

Member, External Advisory Board, Fresno Asthmatic Children's Environment Study (FACES), California Air Resources Board, 2000 – 2008.

Professional Society Boards and Committees

Member, Chinese Academy of Science Key Laboratory of Aerosol Chemistry and Physics Academic Committee, 2016 – present.

Review Committee Member, “Marion Milligan Mason Award for Women in the Chemical Sciences,” American Association for the Advancement of Science (AAAS) , 2015-present.

Member, Excellence in Environmental Education Award Committee, A&WMA Sierra Chapter, 2011 – present.

Member, Membership Committee, Air & Waste Management Association, 2010 – present.

Board Member, Atmospheric Biogeosciences, American Meteorological Society, 2010–2013.

Member, Board of Directors, Air & Waste Management Association, 2007 – 2010.

Member, Nominating Committee, American Association for Aerosol Research (AAAR), 2007 – 2008.

Chair, Subcommittee #6 (Metals I), Intersociety Committee for Methods of Air Sampling and Analysis, 1993 – present.

Coordinator, Air Group, Technical Council, Air & Waste Management Association, 2001 – 2004.

Member, Board of Directors, Air & Waste Management Association Eastern Sierra Chapter, 1999 – 2005.

Chair, Measurement Division, Technical Council, Air & Waste Management Association, 1999 – 2002

Chair, AM-2 Receptor Modeling Source Apportionment Technical Committee, Air & Waste Management Association, 1996 – 1997.

Member, International Affairs Committee, Air & Waste Management Association, 1990–Present.

Member, AB-6 Visibility and Radiative Balance Technical Coordinating Committee, Air & Waste Management Association, 1990 – present.

Member, AB-1 Particulate Matter Technical Coordinating Committee, Air & Waste Management Association, 1990 – present.

Lecturer on technology transfer workshops (e.g., aerosol sampling, chemical analysis, and receptor modeling) in the U.S. (Portland, OR; Las Vegas, NV; San Francisco, Sacramento, Los Angeles, San Diego, and El Centro, CA; Pocatello, ID; Whitefish, MT; Denver, CO; Phoenix and Tucson, AZ; Research Triangle Park, NC; Pittsburgh, PA; Austin, TX; and Chicago, IL); Canada (Vancouver, B.C.); Mexico (Mexico City, Querétaro, and Cuernavaca); Central America (San Salvador, El Salvador); South America (Santiago, Chile; Vitória, and Belo Horizonte, Brazil); Europe (Milan, Italy; Zagreb, and Croatia); South Africa (Johannesburg, Durban, Cape Town, and Pretoria); Taiwan (Kaohsiung, Tainan, Taichung, Taiyuan, and Taipei); Hong Kong Special Administrative Region; China (Beijing, Chongqing, Guangzhou, Hainan Island, Shanghai, Tianjin, Tongliang, and Xi'an); Korea (Seoul and Jeju Island); India (Mumbai, Pune, New Delhi, Hyderabad, and Raipur); Vietnam (Hanoi); Thailand (Bangkok); New Zealand (Auckland and Christchurch); and Australia (Melbourne and Sydney).

Journal Publications and Book Chapters (ISI citations=27,725, h=82)

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- Chen, L.-W.A., Chow, J.C., Wang, X.L., Cao, J.J., Mao, J.Q., Watson, J.G., (2021). Brownness of organic aerosol over the United States: Evidence for seasonal biomass burning and photobleaching effects. *Environmental Science and Technology*, online.
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- Shen, M.X., Xu, H.M., Liu, S.X., Zhang, Y., Zhang, N.N., Zhou, J.M., Chow, J.C., Watson, J.G., Cao, J.J., (2021). Spatial distribution of PM_{2.5}-bound elements in eighteen cities over China: policy implication and health risk assessment. *Environmental Geochemistry and Health*, 10.1007/s10653-021-00913-2.
- Vega, E., Lopez-Veneroni, D., Ramirez, O., Chow, J.C., Watson, J.G., (2021). Particle-bound PAHs and chemical composition, sources, and health risk of PM_{2.5} in a highly industrialized corridor in Central Mexico. *Aerosol and Air Quality Research*, accepted.
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