

# DENISE L. MAUZERALL

PRINCETON UNIVERSITY  
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## EDUCATION

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### Harvard University

Ph.D., Atmospheric Chemistry, Earth and Planetary Science Department, 1996  
Dissertation: Influence of fossil fuel combustion and biomass burning on tropospheric ozone.  
Advisor: Daniel J. Jacob  
M.A., Atmospheric Chemistry, Earth and Planetary Science Department, 1992

### Stanford University

M.S., Environmental Engineering, 1988

### Brown University

Sc.B., with honors, Chemistry, 1985

## PROFESSIONAL EXPERIENCE

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### Princeton University

Associate Professor of Public and International Affairs (with tenure),  
Woodrow Wilson School of Public and International Affairs (2006 - present)  
Assistant Professor of Public and International Affairs, Woodrow Wilson School (1999 - 2006)  
Affiliate faculty, Geosciences Department (1999 - present)  
Affiliate faculty, Princeton Environmental Institute (1999 - present)  
Affiliate faculty, Civil and Environmental Engineering Department (2003 - present)

### National Center for Atmospheric Research, Boulder, CO

Visiting Scientist, Atmospheric Chemistry Division (Summer 1999)  
Post-doctoral Fellow, Advanced Study Program (1996-1998)

### United States Environmental Protection Agency, Washington D.C.

Program Manager, Global Change Division (1989-1990)

### Environmental Consulting

Chief Environmental Engineer, Bruce Company, Washington D.C. (1988-1989)  
Chemist, ICF Technology Inc., Washington D.C. (1985-1987)

## GRANTS (principal investigator)

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*Regional Contributions to the Global Tropospheric Ozone Budget – Global Modeling and Data Analysis*, NASA Atmospheric Chemistry Modeling and Analysis Program,  
(July 2000 – July 2004)

*Inter-annual Variability in Trans-Pacific Transport of Pollution*, NASA New Investigators Program,  
(September 2002 – August 2007)

*Air Pollution Damages in the United States*, Glaser Progress Foundation  
via collaborative contract award with Yale University  
(June 2003 – July 2006)

**HONORS**

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- Intergovernmental Panel on Climate Change (IPCC) contributing author.  
The IPCC shared the Nobel Peace Prize with Vice President Al Gore (2007)
- Executive Committee, Cooperative Institute for Climate Science, Princeton University and NOAA  
Geophysical Fluid Dynamics Laboratory (2006 - )
- National Research Council / National Academy of Science, Committee on Air Quality Management  
in the United States. (2/2001- 4/2004)
- Science Steering Committee, International Geosphere Biosphere Program (IGBP), Analysis,  
Integration and Modeling of the Earth System (including human impacts) (2005 - )
- NASA New Investigators Program grant (2002-2006)
- Advanced Study Program Postdoctoral Fellowship, NCAR. (1996-1998)  
Provided 2 years of unconstrained research funding.
- AAAS Congressional Science Fellowship (declined) (1996)
- NASA Graduate Student Fellowship in Global Change Research (1993 - 1996)  
Provided stipend, research and travel funds for 3 years of doctoral research.
- Invited participant, Atmospheric Chemistry Conference for Emerging Senior Scientists (ACCESS)  
and Gordon Conference in Atmospheric Chemistry (June 1995)
- Harvard University Certificate of Distinction in Teaching (1992 - 1993)
- Harvard University Levinson Teaching Award nomination (1993)
- Graduate Student Fellowship, U.S. Dept. of Education, tuition and stipend (1991 - 1993)
- Stanford University School of Engineering Fellowship, tuition. (1987 - 1988)
- Elected to Sigma Xi (1985)
- Sc.B. awarded with departmental honors, Brown University (1985)

**TEACHING****Princeton University, Woodrow Wilson School of Public and International Affairs**

- WWS 402d *Development of Policy Initiatives for the Sustainable Use of Energy  
at Princeton University* (Spring 2007)
- WWS 402e *Sustainable Development – Can We Do It?* (Spring 2003)
- WWS402e *Air Pollution, Climate Change and Energy: How China Matters* (Spring 2001)
- WWS402f *Air Pollution in India and China: Thinking Globally, Acting Locally* (Spring 2000)
- WWS475 *Global Environmental Issues* (Spring 2003, Spring 2005, Fall 2005)
- WWS584 *The Use of Science in Environmental Policy* (Fall 2004)
- WWS586e *Global Environmental Issues: Science and Policy* (Spring 2005)
- WWS588 *Issues in Science, Technology and Environmental Policy* (Spring 1999)
- WWS589 *Methods in Science, Technology and Environmental Policy* (Fall 1999, 2000 & 2002)
- WWS 591a *Policy Workshop: Climate Change, State Initiatives, and Coastal Hazards:  
Mitigation and Adaptation Strategies for New Jersey* (Fall 2006)
- WWS591d *Environmental Diplomacy* (with Mr. Daniel Reifsnyder) (Fall 1999)

**Doctoral Students (primary adviser)**

- Xiaoping Wang (Ph.D. 2004);  
Junfeng Liu, G5;  
Eri Saikawa, G1.

**Harvard University, Harvard College, Teaching Fellow**

*Environmental Science and Public Policy*, Profs. M.B. McElroy and W. Clark (Fall and Spring 1993)  
*Atmospheric Chemistry*, Department of Earth and Planetary Science, Prof. D.J. Jacob (Spring 1992)  
*The Atmosphere*, Undergraduate core program, Professor M.B. McElroy (Fall 1991)

**Brown University, Department of Chemistry, Teaching Assistant**

*Honors Chemistry*. First year honors course, Professor P. Rieger (Fall 1983)

**ADMINISTRATIVE RESPONSIBILITIES AT PRINCETON**

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Chair, Science, Technology and Environmental Policy program	(1999 - 2000)
Chair, STEP Doctoral Program	(1999 - 2001)
Woodrow Wilson School Senior Thesis Prize Committee	(1999, 2000)
Masters of Public Policy, Admissions Committee, WWS	(1999, 2000)
Masters of Public Affairs Admissions Committee, WWS	(2002, 2003, 2005, 2006)
University Committee on Libraries and Computing	(2002 - 2005)
Woodrow Wilson School undergraduate committee	(2006, 2007)
Faculty fellow, Mathey College	(2003 - present)

**PROFESSIONAL ACTIVITIES**

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**Journal Referee**

*Science*;  
*Journal of Geophysical Research - Atmospheres*;  
*Geophysical Research Letters*;  
*Atmospheric Environment*;  
*Environmental Science and Technology*;  
*Annual Review of Energy and the Environment*;  
*Environmental Management*;  
*Journal of Atmospheric Science*;  
*Journal of Atmospheric Chemistry*;  
*Atmospheric Chemistry and Physics*.

**Grant Reviewer**

*National Aeronautic and Space Association (NASA)*;  
*National Science Foundation (NSF)*;  
*Research Grants Council of Hong Kong*.

**Book Reviewer**

*Prentice-Hall*;  
*Princeton University Press*.

**Media Mentions**

Washington Post, Link from Weather to Pollution, May 9, 2005  
 CESifo Press Service, Taxing the ObNOXious, May 23, 2005  
 Highlights 2005, Bringing Science to Bear on Pollution Policy, UCAR.

**Conference Session Chair**

Megacities, Air Pollution over Asia, International Association of Meteorology and Atmospheric Sciences, Beijing, China, (August 2005)  
 Controlling Emissions of Non-CO2 Greenhouse Gases: Scientific and Policy Challenges, Joint Assembly meeting, New Orleans, LA, (May 2005)

- Integrated Assessment, Air Pollution as a Climate Forcing: a second workshop, Honolulu, Hawaii  
(April 2005)
- Atmospheric Modeling and Dynamics session, Spring American Geophysical Union meeting,  
Boston, MA  
(May 2001)
- Air Quality and Climate Change Working Group, Aspen Global Change Institute, Aspen, CO  
(August 2000)
- Tropospheric Photochemistry and Ozone Budget session, International Symposium on  
Atmospheric Chemistry and the Future Global Environment, Nagoya, Japan  
(November, 1997)

## **PUBLICATIONS (Peer Reviewed)**

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- Liu, J. and **D. L. Mauzerall**, Evaluating the potential influence of inter-continental transport of sulfate aerosols on air quality, *Environmental Research Letters*, in press July 2007.
- Liu, J., **D. L. Mauzerall**, L. W. Horowitz, Source-Receptor Relationships of Trans-Pacific Transport of East Asian Sulfate, *Geophys. Res. Lett.*, submitted 2007.
- Naik, V., **D. L. Mauzerall**, L. W. Horowitz, M. D. Schwarzkopf, V. Ramaswamy, M. Oppenheimer, "Sensitivity of Radiative Forcing from Biomass Burning Aerosols and Ozone to Emission Location," *Geophys. Res. Lett.*, VOL. 34, L03818, doi:10.1029/2006GL028149, 2007.
- West, J.J., A.M. Fiore, V. Naik, L.W. Horowitz, M.D. Schwarzkopf, **D.L. Mauzerall**, Ozone Air Quality and Radiative Forcing Consequences of Changes in Ozone Precursor Emissions, *Geophys. Res. Lett.*, 34, L06806, doi:10.1029/2006GL029173, 2007.
- Xu, S., Jaffe, P., **Mauzerall, D. L.**, "A Process-based Model for Methane Emission from Flooded Rice Paddy Systems," *Ecological Modeling*, vol. 205, pp. 475-491, 2007.
- West, J.J., A. F. Fiore, L. W. Horowitz, **D. L. Mauzerall**, Mitigating Ozone Pollution with Methane Emission Controls: Global Health Benefits, *Proceedings of the National Academy of Science*, vol. 103, no. 11, March 14, 2006.
- Wang, X. and **D. L. Mauzerall**, Evaluating Impacts of Air Pollution in China on Public Health: Implications for Future Air Pollution and Energy Policies, *Atmospheric Environment*, Volume 40, Issue 9, Pages 1706-1721, 2006.
- Tong, D. Q. and **D.L. Mauzerall**, Spatial Variability of Summertime Tropospheric Ozone over the Continental United States: Implications of an evaluation of the CMAQ model, *Atmospheric Environment*, 40, 3041-3056, 2006.
- Tong, D.Q., N.Z. Muller, **D.L. Mauzerall**, R.O. Mendelsohn, "Integrated Assessment of the Spatial Variability of Ozone Impacts from Emissions of Nitrogen Oxides," *Environmental Science and Technology*, 40:5, 1395-1400, 2006.
- Tong, D. Q. and **D.L. Mauzerall**, Technical Note: Numerical instability in the Community Multi-scale Air Quality model and its impacts on aerosol and ozone simulations, *Atmospheric Environment*, submitted November 2005.

**Mauzerall, D.L.** and D. Q. Tong, Premature Mortalities Caused by U.S. Air Pollution, *Science*, to be submitted 2005.

Naik, V., **D. L. Mauzerall**, L. W. Horowitz, D. Schwarzkopf, V. Ramaswamy, and M. Oppenheimer, Net Radiative Forcing Due to Changes in Regional Emissions of Tropospheric Ozone Precursors, *J. Geophys. Res.*, Vol. 110, D24306, doi:10.1029/2005JD005908, December 2005.

Wang, X, **D. L. Mauzerall**, Y. Hu, A. G. Russell, E. D. Larson, J-H. Woo, D. G. Streets, A. Guenther, A High-Resolution Emission Inventory for Eastern China in 2000 and Three Scenarios for 2020, *Atmospheric Environment*, Volume 39: No. 32, 5917-5933, October 2005.

**Mauzerall, D. L.**, B. Sultan, N. Kim, D. F. Bradford, NO<sub>x</sub> Emissions: Variability in Ozone Production, Resulting Health Damages and Economic Costs, *Atmospheric Environment*, Volume 39: No. 16, 2851-2866, May 2005.

Liu, J. and **D. L. Mauzerall**, Estimating the Average Time for Inter-continental Transport of Air Pollutants, *Geophysical Research Letters*, vol 32, doi:10.1029/2005GL022619, 2005.

Liu, J., **D. L. Mauzerall**, L.W. Horowitz, Analysis of Seasonal and Inter-annual Variability in Trans-Pacific Transport, *Journal of Geophysical Research*, 110, D04302, doi: 0.1029/2004JD005207, 2005.

National Research Council/National Academies of Science, "Air Quality Management in the United States," (with Chameides, W. L, Greenbaum, D., et al.) National Academy Press, 2004.

Wang, X. and **D.L. Mauzerall**, Characterizing distributions of surface ozone and its impact on grain production in China, Japan and south Korea: 1990 and 2020, *Atmospheric Environment*, Vol. 38, pp. 4383-4402, 2004.

Hale, T. and **D. L. Mauzerall**, Thinking Globally and Acting Locally: Can the Johannesburg Partnerships Coordinate Action on Sustainable Development?, *Journal of Environment and Development*, September 2004.

Horowitz, L.W., Walters, S., **Mauzerall, D.L.**, Emmons, L.K., Rasch, P.J., Granier, C., Tie, X., Lamarque, J.F., Schultz, M.G., Tyndall, G.S., Orlando, J.J., Brasseur, G.P., A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2, *Journal of Geophysical Research*, 108 (D24), 4784, doi:10.1029/2002JD002853, 2003.

**Mauzerall, D.L.** and Wang, X., Protecting Agricultural Crops from the Effects of Tropospheric Ozone Exposure: Reconciling Science and Standard Setting in the United States, Europe and Asia, *Annual Review of Energy and Environment*, 2001.

Contributing author to Climate Change: The Scientific Basis -- Contribution of Working Group I to the Third Assessment Report of the Intergovernmental Panel on Climate Change, Chapter 4, Atmospheric Chemistry, Cambridge University Press, 2001.

Contributing author to Climate Change: Impacts, Adaptation, and Vulnerability -- Contribution of Working Group III to the Third Assessment Report of the Intergovernmental Panel on

Climate Change, Chapter 9, Sector Costs and Co-benefits of Mitigation, Cambridge University Press, 2001.

**Mauzerall, D.L.**, D. Narita, H. Akimoto, L. Horowitz, S. Walters, D. Hauglustaine, G. Brasseur, Seasonal characteristics of tropospheric ozone production and mixing ratios over East Asia: A global three-dimensional chemical transport model analysis, *Journal of Geophysical Research*, 105, 17,895-17,910, 2000.

**Mauzerall, D.L.**, J.A. Logan, D.J. Jacob, B.E. Anderson, A.S. Bachmeier, G.W. Sachse, D.R. Blake, J.D. Bradshaw, H. Fuelberg, B.G. Heikes. Photochemistry in Biomass Burning Plumes and Implications for Tropospheric Ozone over the Tropical South Atlantic, *Journal of Geophysical Research*, 103, 8401-8423, 1998.

**Mauzerall, D.L.**, D.J. Jacob, S.-M. Fan, J.D. Bradshaw, G.L. Gregory, G.W. Sachse, D.R. Blake. Origin of Tropospheric Ozone at Remote High Northern Latitudes in Summer, *Journal of Geophysical Research*, 101, 4175-4188, 1996.

Jacob, D.J., B.G. Heikes, S.-M. Fan, J.A. Logan, **D.L. Mauzerall**, J.D. Bradshaw, H.B. Singh, G.L. Gregory, R.W. Talbot, D.R. Blake, G.W. Sachse. Origin of Ozone and NO<sub>x</sub> in the Tropical Troposphere: a Photochemical Analysis of Aircraft Observations over the South Atlantic Basin, *Journal of Geophysical Research*, 101, 24235-24250, 1996.

Fan, S.-M., D.J. Jacob, **D.L. Mauzerall**, J.D. Bradshaw, S.T. Sandholm, D.R. Blake, H.B. Singh, R.W. Talbot, G.L. Gregory, G.W. Sachse. Origin of Tropospheric NO<sub>x</sub> over Subarctic Eastern Canada in Summer, *Journal of Geophysical Research*, 99, 16867-16877, 1994.

**Mauzerall, D.L.** Protecting the Ozone Layer: Phasing out Halon by 2000. *Fire Journal*. Sept./Oct. 1990.

## INVITED LECTURES AND CONFERENCE PRESENTATIONS

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*Air Quality and Climate Change: Opportunities for "Co-benefits" for Health*, National Academies, Institute of Medicine, San Francisco (September 2007)

*Air Quality and Climate Change: Opportunities for "Co-benefits"*, Gordon Research Conference, Atmospheric Chemistry, Big Sky, MT. (August 2007)

*Potential Contributions of Emerging Mid-Infrared Detection Technologies to Air Quality Modeling and Policy*, Center for Mid-Infrared Technologies for Health and the Environment (MIRTHE), Princeton University (August 2007)

*Air Quality and Climate Change: Options for "Co-benefits"*, World Bank, Washington D.C., (May 2007)

*Surface Ozone Distributions and Their Impact on Grain Production in China, Japan and South Korea: 1990 and 2020*, University of Tokyo, Tokyo, Japan. (March 2007)

*Surface Ozone and its Impact on Grain Yields*, Institute of Soil Science, Chinese Academy of Sciences, Nanjing, China (March 2007)

- It's Not Just about Climate Change: How Reducing Methane Emissions Can Improve Air Quality and Global Public Health*, Congressional briefing, Rayburn building, Washington D.C.  
(May 2006)
- Health Implications of Regional and Long-Range Transport of Air Pollutants*, Health Effects Institute annual meeting, San Francisco, CA  
(April 2006)
- Evaluating the Impact of Air Pollution on Agriculture and Human Health in China*, Project Asian Brown Cloud (ABC): The First Workshop on the Impact Assessment Program,  
Bangkok, Thailand  
(December 2005)
- Local and regional air pollution and its impacts on human health and crops – and its linkages to GHG abatement*, Mitigation of air pollution and climate change in China: A policy workshop on co-benefits and co-control, Beijing, China  
(invited November 2005)
- Air Pollution: Science, Impacts and Policy*, Department of Atmospheric and Oceanic Science, University of Maryland, College Park, MD  
(October 2005)
- Air Pollution: Science, Impacts and Policy*, Bradford Seminars in Science, Technology and Environmental Policy, Princeton University, Princeton, NJ  
(September 2005)
- Evaluating Impacts of Air Pollution in China on Public Health: Implications for Future Air Pollution and Energy Policies*, International Association of Meteorology and Atmospheric Sciences, Beijing, China  
(August 2005)
- Assessing Global Radiative Forcing due to Regional Emissions of Tropospheric Ozone Precursors: A Step Towards Climate Credit for Ozone Precursor Emissions*, International Association of Meteorology and Atmospheric Sciences, Beijing, China  
(August 2005c)
- Air Pollution and International Climate Change Policy – To Credit or Not to Credit?* Joint Assembly conference, New Orleans, LA.  
(May 2005)
- Regional Attribution of Ozone Production and Associated Radiative Forcing: A Step towards climate credit for reductions in emissions of ozone precursors*, Joint Assembly conference, New Orleans, LA.  
(May 2005c)
- An Integrated Assessment of the Impacts of Air Pollution on Health in Eastern China: A valuation with implications for future air pollution and energy policies*, Air Pollution as a Climate Forcing workshop, East-West Center, Honolulu, Hawaii.  
(April 2005)
- An Integrated Assessment of the Impacts of Air Pollution on Health in Eastern China: Implications for future air pollution and energy policies*, Asian Brown Cloud science team meeting, Shanghai, China (declined due to prior commitment)  
(April 2005)
- Charging NO<sub>x</sub> Emitters for Health Damages: An Exploratory Analysis*, National Bureau of Economic Research, Environmental Economics working group, Cambridge, MA.  
(April 2005)
- NO<sub>x</sub> Emissions: Variability in Ozone Production, Resulting Health Damages and Economic Costs*, American Geophysical Union Fall Meeting, San Francisco, CA.  
(December 2004)

- Regional Attribution of Ozone Production and Associated Radiative Forcing: A Step Towards Climate Credits for Ozone Reductions*, Intercontinental and Climatic Effects of Air Pollutants Workshop, Chapel Hill, NC. (October 2004)
- Air Pollution in Asia: From local impacts on agriculture and health to inter-annual variability in trans-Pacific transport*, Atmospheric Chemistry Division, National Center for Atmospheric Research, Boulder, CO. (June 2004)
- Air Pollution Impacts: From Effects on Agriculture and Health in China to a New Proposal for U.S. NO<sub>x</sub> Emission Control*, Environmental and Societal Impacts Group, National Center for Atmospheric Research, Boulder, CO. (June 2004)
- U.S. Air Quality: A New Proposal for Domestic NO<sub>x</sub> Emission Control and an Examination of Inter-Annual Variability in Trans-Pacific Transport*, [National Oceanic and Atmospheric Administration](#) Aeronomy Lab, Boulder CO. (June 2004)
- Analysis of Seasonal and Inter-Annual Variability in Trans-Pacific Transport*, Vertical and long-range transport of trace gases and aerosols session, European Geosciences Union 1st General Assembly, Nice, France. (April 2004)
- The Cost of Dirty Air: Using Atmospheric Models to Quantify the Impact of Air Pollution on Agriculture and Human Health in China*, Harvard University Center for Environment: China project, Harvard University, Cambridge, MA. (April 2004)
- From regional to global: Using science to develop sound air quality policy*, Princeton Environmental Institute Associated Faculty Forum, Princeton, NJ. (April 2004)
- Linking Air Pollution to Health and Agricultural Damages: U.S. and China*, Sustainability Seminar Series, New Jersey Department of Environmental Protection, Trenton, NJ (April 2004)
- Nitrogen Oxide Emissions from Power Plants – How Damage Varies in Space and Time: Should Emission Charges Vary with Damage?*, Woodrow Wilson School Washington Seminar Series, Washington D.C. (March 2004)
- Air Pollution in Asia: Assessing Impacts on Agricultural and Forest Productivity*, Bangkok, Thailand. (declined due to prior commitment) (November 2003)
- MOZART-2 Applications*, GEOS-CHEM meeting, Harvard University, Cambridge, MA (June 2003)
- Factors Regulating the Seasonal Cycle of Intercontinental Air Pollution Transport between Asia, the United States and Europe*, Hemispheric Air Pollution conference, Bad Breisig, Germany. (October 2002)
- Factors Regulating the Seasonal Cycle of Inter-Continental Pollution Transport*, Telluride Atmospheric Chemistry workshop, Telluride, Colorado. (August 2002)
- The Adverse Impact of Surface Ozone on Agricultural Crops*, Air Pollution as a Climate Forcing workshop, Honolulu, Hawaii. (April 2002)
- Transport of Ozone and Related Air Pollutants in the Boundary Layer over East Asia: A global modeling analysis*, Center for Environmental Sciences, Beijing University, Beijing, China (October 2001)

- Transport of Ozone and Related Air Pollutants in the Boundary Layer over East Asia: A global modeling analysis*, Workshop on local and regional contribution to air pollution and local radiative balance in Asian developing countries, Guangzhou, China (September 2001)
- Transport of Ozone and Related Air Pollutants in the Boundary Layer over East Asia: A global modeling analysis*, Joint Sino-US workshop on China-MAP, Hong Kong (September 2001)
- Intercontinental Transport of CO, NO<sub>x</sub>, and PAN from Fossil Fuel and Biomass Burning Emissions*, Photooxidants, Particles, and Haze across the Arctic and North Atlantic: Transport Observations and Models Workshop, Columbia University Lamont-Doherty Earth Observatory, Palisades, New York. (June 2001)
- Escalating Interconnections between Regional and Global Air Pollution: Science and International Policy*, Energy and Resources Group Colloquium, University of California, Berkeley, CA. (April 2001)
- Linkages Between Regional and Global Air Pollution: Reconciling Science and Policy*, Princeton Environmental Institute Associated Faculty Seminar Series, Princeton University, Princeton, NJ. (April 2001)
- Photochemical Budgets and Fluxes of O<sub>3</sub>, CO, HNO<sub>3</sub> and PAN over East Asia*, International Institute for Applied System Analysis, Laxenburg, Austria. (September 2000)
- Comparison of Boundary Layer Regional Photochemical Budgets: East Asia, United States and Europe*, Aspen Global Change Institute, Aspen, CO. (August 2000)
- The Interconnections between Local, Regional and Global Air Pollution*, Center for Energy and Environmental Studies, Princeton University, Princeton, NJ. (April 1999)
- The Potential Impact of Asian Development on Global Air Quality*, Woodrow Wilson School, Princeton University, Princeton, NJ. (March 1999)
- Preliminary Analysis of Regional Tropospheric Ozone Budgets using MOZART-2, a global photochemical tracer model*, International Symposium on Tropospheric Ozone in East Asia and its Potential Impacts on Vegetation, Tokyo, Japan, 1998. (December 1998)
- Influence of Fossil Fuel Combustion and Biomass Burning on Tropospheric Ozone - Data Analysis and Modeling*, Atmospheric Chemistry Division / National Center for Atmospheric Research, Boulder, CO. (March 1997)
- Protecting Stratospheric Ozone: the EPA's Domestic and International Role*, School of Engineering, University of Colorado, Boulder, CO. (February 1997)
- Origin of Tropospheric Ozone at Remote Northern Latitudes in Summer*, Atmospheric Chemistry Conference for Emerging Senior Scientists (ACCESS) (June 1995)
- Panel member, Education, Training and Environmental Careers*, Harvard University Committee on Environment, Cambridge, MA (December 1993)

*Plenary talk, The Science of Stratospheric Ozone Depletion*, International Conference on Halon Alternatives, Hongzhou, China (September 1990)

### **PUBLICATIONS (Working papers and other Selected Unrefereed)**

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**Mauzerall, D.L.**, Sultan, B., Kim, N., Bradford, D.F., “Charging  $\text{NO}_x$  Emitters for Health Damages: An Exploratory Analysis”, Center for Economic Studies ifo Working Paper 1442, Munich, Germany, April 2005.

**Mauzerall, D.L.**, Sultan, B., Kim, N., Bradford, D.F., “ $\text{NO}_x$  Emissions from Large Point Sources: Variability in Ozone Production, Resulting Health Damages and Economic Costs”, *Eos Trans. AGU* 85(47), Fall Meeting Suppl., Abstract A22A-04-INVITED, 2004.

Wang, X., **Mauzerall, D.L.**, “Impacts of Air Pollution on Health in Eastern China: Implications for Future Air Pollution and Energy Policies”, *Eos Trans. AGU* 85(47), Fall Meeting Suppl., Abstract A31D-03, 2004.

Tong, D.Q., **Mauzerall, D.L.**, “Quantifying Source-Receptor Relationships between  $\text{NO}_x$  Emissions and  $\text{O}_3$  Concentrations in Downwind States in the Continental U.S.”, *Eos Trans. AGU* 85(47), Fall Meeting Suppl., Abstract A23A-0775, 2004.

Naik, V. **Mauzerall, D.L.**, Horowitz, L., Schwarzkopf, D. Ramaswamy, V., Oppenheimer, M., “Regional Attribution of Ozone Production and Associated Radiative Forcing: A Step to Crediting  $\text{NO}_x$  Emission Reductions”, *Eos Trans. AGU* 85(47), Fall Meeting Suppl., Abstract A23A-0762, 2004.

**Mauzerall, D.L.**, Tong, Q. “A Preliminary Estimate of the total Impact of Ozone and  $\text{PM}_{2.5}$  Air Pollution on Premature Mortalities in the United States”, 27<sup>th</sup> NATO/CCMS International Technical Meeting on Air Pollution Modeling and its Application, Conference papers, October 2004.

Tong, Q., **Mauzerall, D.L.**, Mendelsohn, R., “Modeling Source-Receptor Relationships and Health Impacts of Air Pollution in the United States”, 27<sup>th</sup> NATO/CCMS International Technical Meeting on Air Pollution Modeling and its Application, Conference papers, October 2004.

**Mauzerall, D.L.**, Sultan, B., Kim, N., Bradford, D.F. “Charging  $\text{NO}_x$  Emitters for Health Damages: An Exploratory Analysis”, National Bureau of Economic Research, Inc., Working Paper 10824, October 2004.

**Mauzerall, D.L.**, Babar Sultan, Namsoug Kim, and David F. Bradford, “Charging  $\text{NO}_x$  Emitters for Health Damages: An Exploratory Analysis”, Princeton Center for Economic Policy Studies, CEPS Working Paper No. 103, September 2004

**Mauzerall, D.L.**, Liu, J., Analysis of Seasonal and Inter-annual Variability in Trans-Pacific Transport, *Geophysical Research Abstracts*, Vol. 6, 04552, 2004 SRef-ID: 1607-7962/gra/EGU04-A-04552, 2004

- Mauzerall, D.L.**, B. Sultan, N. Kim, D. Bradford, An Alternative to NO<sub>x</sub> Cap-and-Trade Programs: An Exploratory Analysis of Charging NO<sub>x</sub> Emitters for Health Damages. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract U31D-03, 2003.
- Wang, X., **D. L. Mauzerall**, Y. Hu, A.G. Russell, J. Woo, D.G. Streets. Evaluating the Impact of Air Pollution on Human Health in China: the Price of Clean Air. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract U31D-03, 2003.
- Mauzerall, D.L.**, X. Wang, Q. Tong, D. Bradford, R. Mendelsohn. Integrated Assessments: Using Regional Models to Evaluate Health Impacts of Air Pollution in the United States and China, One Atmosphere, One Community, One Modeling System: Models-3 Users' Workshop, October 27-29, 2003, Research Triangle Park, North Carolina, 2003.
- Kobayashi, K., **D.L. Mauzerall**, X. Wang. Possible impact of increasing atmospheric ozone on rice production in China, Japan-China Atmospheric Environmental Science Symposium, Shanghai, China, December 2002.
- Mauzerall, D.L.**, The Use of Atmospheric Science to Determine Optimal Air Quality Management Regions, *Eos. Trans. AGU* 83(19), Spring Meet. Suppl., Abstract A42C-04 Invited, 2002.
- Mauzerall, D.L.**, L. Horowitz, G. Brasseur, Preliminary analysis of regional tropospheric ozone budgets using MOZART-2, a global photochemical tracer model, Proceedings of the International Symposium on Tropospheric Ozone in East Asia and its Potential Impacts on Vegetation, Tokyo, Japan, 1998.
- Mauzerall, D.L.**, D. Hauglustaine, G. Brasseur, Production and Export of Tropospheric Ozone from Asia - Global Modeling and Analysis of PEM-West B Data, International Symposium on Atmospheric Chemistry and the Future Global Environment, Extended abstracts, Nagoya, Japan, 1997.
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- Andersen, S.O., **Mauzerall, D.L.** The Future of CFCs in Electronic Cleaning - A Regulatory Update. Proceedings of the Technical Program of the National Electronic Packaging and Production Conference, NEPCON West. 1990.
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