

## Sasha Madronich - CURRICULUM VITAE

Address: Atmospheric Chemistry Division  
National Center for Atmospheric Research  
Boulder, Colorado 80307  
Phone: (303) 497-1430  
Fax: (303) 497-1400  
e-mail: [sasha@ucar.edu](mailto:sasha@ucar.edu)  
url: <http://acd.ucar.edu/~sasha/>

### EDUCATION:

1982 Ph. D. (Physical Chemistry) York University. Thesis: "Photolysis of Nitrogen Dioxide in the Stratosphere."  
1978 M. S. (Electrical Engineering) Cornell University. Thesis: "Electronic to Vibrational Energy Transfer from O<sub>2</sub>\* to HF(v)."  
1975 M. Engr. (Engineering Physics) Cornell University.  
1974 B. S. (Engineering Physics) Cornell University.

### EMPLOYMENT:

1997 - Senior Scientist, National Center for Atmospheric Research (NCAR), Boulder, Colorado.  
1988 - 1997 Scientist II and III, NCAR.  
1987 - 1988 Senior Research Associate, Atmospheric Sciences Research Center, State University of New York, Albany, New York, and Visiting Scientist, NCAR.  
1985 - 1987 Scientist I, NCAR.  
1981 - 1985 Chemical Physicist, AeroChem Research Labs., Princeton, New Jersey.

### RESEARCH INTERESTS:

Atmospheric chemical, physical and radiative processes related to tropospheric air quality, regional and global climate, and stratospheric ozone. Modeling and interpretation of atmospheric observations. Lifecycles of atmospheric chemical compounds, including sources, transformations, and removal processes. Non-linear photochemistry of tropospheric Ox, HOx, NOx and hydrocarbons. Detailed chemical mechanisms and kinetics for the atmospheric oxidation of hydrocarbons. Gas-aerosol-radiation interactions. Ultraviolet radiation in the atmosphere and its effect on the biosphere. Impacts of the export of urban pollution to regional and global scales. Development and evaluation of regional and global chemistry-transport models.

### PUBLICATIONS:

See [http://acd.ucar.edu/~sasha/Madronich\\_publications.pdf](http://acd.ucar.edu/~sasha/Madronich_publications.pdf)

### PERSONAL:

Home: 3670 Larkwood Ct., Boulder, Colorado 80304 (tel. 303 494-8993).  
Born: 30 January 1953 in Maribor, Slovenia.  
Citizenship: U.S.  
Languages: Fluent in English, Italian, Slovene. Written and oral comprehension of Spanish. Some training in Russian and German.

## **SELECTED PROFESSIONAL ACTIVITIES:**

Guest editor, Atmospheric Chemistry and Physics, special issue on MILAGRO [2006-2008]. Steering Committee of Scientific Research on Climate and Chemical Composition in the Yangtze River Delta Region [2006-]. Advisory committee, DOE Aerosol and Climate Initiative [2006-]. Convenor, First MILAGRO Science Meeting [2006]. Lead scientist, MIRAGE-Mex field campaign [2006]. EPA review panel on Tropospheric Air Quality [2006]. Guest editor, Atmospheric Environment, special issue on Transport and Air Pollution [2005-2006]. Convenor, joint MILAGRO/INTEX-B workshop, Boulder [2005]. Science steering committee, DOE Atmospheric Sciences Program [since 2005]. Co-chair, Megacity Impacts on Local and Global Scales, Research Observations (MILAGRO) [since 2005]. Coordinating lead author, Intergovernmental Panel on Climate Change (IPCC) Special Report on Ozone and Climate [2003-2005]. Organizer, 13<sup>th</sup> International Symposium on Transport and Air Pollution, Boulder [2004]. Scientific advisory group on UV monitoring, World Meteorological Organization (WMO) [1994-2003]. Scientific organizing committee, 11<sup>th</sup> - 14<sup>th</sup> International Symposia on Transport and Air Pollution [2001-2005]. Convenor, 1<sup>st</sup> workshop on MIRAGE, Boulder [2002]. Chair, scientific steering committee for Megacities Impacts on Regional and Global Environments (MIRAGE) [since 2002]. Panel on Effects of Ozone Depletion, United Nations Environment Programme (UNEP) [1989-2001]. Peer review panel, USDA/UV Monitoring Program [2001]. Co-convenor, workshop on Modeling Chemistry in Cloud and Mesoscale Models, Boulder [2000]. Co-convenor, workshop on Mixing and Reactive Turbulence, Boulder [1999]. Convenor, session on UV Radiation Measurements and Modeling, International Radiation Symposium, Fairbanks [1996]. Peer review panel (chair), EPA/UV Monitoring Program [1996]. Scientific consultant, ICF Consulting [since 1994]. Steering committee, UV Issues, Department of Energy (DOE) [1992-1993]. Technical advisory panel on UV Monitoring, EPA [since 1992]. Steering committee for UV Monitoring, U.S. Department of Agriculture (USDA) [since 1990]. Peer review panel, Environmental Protection Agency (EPA) International Rice Research Plan [1990]. Convenor, Global Tropospheric Chemistry Program (GTCP) International Workshop, Boulder, Colorado [1989].

### **within NCAR/UCAR:**

Appointments Review Group [2007-2009; vice chair 2008; chair-elect 2009]. Assistant to the NCAR Director for Scientific Liaison [2002-2003]. Human Resources Advisory Council [2002]. Jury for Distinguished Achievement/Outstanding Performance Award [1999-2001]. Appointments Review Group [1999-2001; chair, 2001]. Geophysical Turbulence Program [since 1996; chair, 2000]. Head, Theoretical Studies and Modeling Section of the Atmospheric Chemistry Division [1997-2008]. Acting director, ACD [occasionally since 2000]. Atmospheric Chemistry Division (ACD) management committee [since 1990].

### **HONORS:**

ISI Highly Cited [Geosciences, 1986-2006]. NCAR Special Recognition Award [2003]. Distinguished Visiting Professor, Academia Mexicana de Ciencias [2001]. NCAR Outstanding Publication Award Nomination [2000]. NOAA Outstanding Publication Award [1998]. Citations for Excellence for Contributions to the Protection of the Ozone Layer, United Nations Environment Programme [1990; 1995; 1998]. The Donnel Foster Hewett Lecturer, Lehigh University [1993]. Editor's Citation for Outstanding Refereeing, Journal of Geophysical Research [1993]. Cornell National Scholar [1970-1974].

*updated 5/6/2008*