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EDUCATION:

B.S., 1977 Geology, University of Rochester
M.S., 1983 Rosenstiel School of Marine and Atmospheric Science, University of Miami
Ph.D., 1986 Rosenstiel School of Marine and Atmospheric Science, University of Miami

POSITIONS HELD:

1985-1989 Assistant Professor, Marine and Atmospheric Chemistry, University of Miami
1990-1995 Associate Professor, Marine and Atm. Chemistry, University of Miami
1994-1998 Chairman, Division of Marine and Atm. Chemistry, University of Miami
1995-2000 Professor, Marine and Atmospheric Chemistry, University of Miami
1998-2000 Program Manager for Atmospheric Chemistry, National Science Foundation
2000-present Professor, Earth System Science, University of California, Irvine
2003-2007 Chairman, Department of Earth System Science, Univ. California, Irvine
2013-present Professor, Chemistry (without salary), University of California, Irvine
2014-2016 Section Head, Arctic Sciences, Division of Polar Programs, NSF
2016-2017 Section Head, Antarctic Sciences, Office of Polar Progams, NSF

INTERESTS: Atmospheric Chemistry, Biogeochemical Cycles, Air/Sea Exchange

HONORS

Fellow, American Geophysical Union (elected 2011)

PROFESSIONAL ACTIVITIES:

Principal investigator on grants from NSF, NASA, NOAA, DoD
NSF, NASA Advisory and proposal review panels
U.S. Civilian Research and Defense Fund review panel (96, 99, 2001, 2003-06, 2010)
NSF HAIPER (high altitude research aircraft) Advisory Committee (2000-05)
NAS OSB study on Chemical Reference Materials for Oceanography (2002)
Chair, NSF review of NCAR Atmospheric Chemistry Division (2001)
Chair, NCAR Observational Facilities Advisory Panel (2002)
Chair, Ice Core Working Group (2003-09)
NSF ice core sample allocation committee (2003-08)
SOLAS Summer School lecturer (Corsica, 2003, 05, 07, 09, 11; Xiamen, 2013)
SOLAS Int'l Scientific Steering Committee (2007-2014, Chair 2011-14)
NSF Office of Polar Programs Advisory Committee (2007-2011, Chair 2010-11)
NAS study on the Evolution of the U.S. Oceanographic Research Fleet (2009)
UCAR Board of Trustee member (2009-12)

AGU Union Fellows Selection committee (2013-16)
AGU Honors and Recognition committee (2017-19)
AGU Bowie medal selection committees (2018-19)

FELLOWSHIPS, VISITING SCIENTIST

Texaco Graduate Fellowship, Univ. of Miami, 1977-1981
Visiting Scientist, Department of Meteorology, Univ. of Stockholm (1991, 1993)
Fellow, Cooperative Inst. of Marine and Atm. Sciences, NOAA/Univ. of Miami (1998-2000)

BOOK/JOURNAL EDITING:

Book Editor – Biogenic Sulfur in the Environment, *ACS Symposium Series*; Gas Transfer at Water Surfaces, *AGU Geophysical Monograph*, Surface Ocean Lower Atmosphere Processes, *AGU Geophysical Monograph*

Associate Editor – *Geophys. Res. Lett.* (1990-1993), *Global Biogeochem. Cycles* (2004-2008), *Atmos. Chem. Phys.* (2008-2009)

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Geophysical Union, Sigma Xi

TEACHING:

Introduction to Marine and Atmospheric Chemistry (graduate)
Introduction to Earth and Environmental Science (undergraduate)
Atmospheric Chemistry (undergraduate and graduate)
Atmospheric Chemistry and Physics (graduate)
Practicum on oral communication and proposal writing (graduate)
Earth System Change (upper level undergraduate writing requirement)

GRADUATE/POST-DOCTORAL ADVISING:

| | |
|-----------------------|---|
| Ph.D. (current) | J. Patterson, J. Campos Ayala, S. Al Ali |
| Ph.D. (former) | D. Cooper, S. Yvon-Lewis, P-Y. Whung, D. King, E. Dahl, C. Marandino, B. Finley, M. Lawler, K. Verhulst, M. Griemann, J. Porter, M. Nicewonger |
| M.S. (former) | M. Gallagher, M. Davis, M. Zheng, G. Sun, A. O'Connor, C. Tatum, E. Parker |
| Postdoctoral (former) | D. Cooper, P. Whung, C. Germain, C. Marandino, P. Matrai, W. De Bruyn, D. King, M. Aydin, R. Rhew, M. Williams, T. Bell, S. Aarons, M. Grieman, M. Nicewonger |

JOURNAL ARTICLES (total 145 through Osman et al.)

- Harrison, C. G. A., G. W. Brass, E. S. Saltzman, J. L. Sloan II, J. Southam, and J. M. Whitman, 1981. Sea level variations, global sedimentation rates and the hypsographic curve, *Earth Planet. Sci. Lett.*, 54: 1-16.
- Saltzman, E. S. and E. J. Barron, 1982. Deep circulation in the late cretaceous: oxygen isotope paleotemperatures from inoceramus remains in DSDP cores, *Paleogeogr. Paleoclimatol. Paleoecol.*, 40: 167-181.
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- Zika, R. G. and E. S. Saltzman, 1982. Interaction of ozone and hydrogen peroxide in water: implications for analysis of H₂O₂ in air. *Geophys. Res. Letts.*, 9: 231-234.
- Alt, J. C., J. Honnorez, H. W. Hubberten, and E. S. Saltzman, 1983. Occurrence and origin of anhydrite from DSDP Leg 70, Hole 504B, Costa Rica rift. In: Cann, J. R. et al., Init. Repts., Wash. (U.S. Govt. Printing Office), *DSDP*, 69: 547-550.
- Harrison, C. G. A., K. J. Miskell, G. W. Brass, E. S. Saltzman, and J. L. Sloan II, 1983. Continental hypsography, *Tectonics*, 2: 357-377.
- Saltzman, E. S., G. W. Brass, and D. A. Price, 1983. The mechanism of sulfate aerosol formation: chemical and sulfur isotopic evidence. *Geophys. Res. Letts.*, 10: 513-516.
- Saltzman, E. S., D. L. Savoie, R. G. Zika, and J. M. Prospero, 1983. Methane sulfonic acid in the marine atmosphere. *J. Geophys. Res.*, 88: 10897-10903.
- Magaritz, M., R. Y. Anderson, W. T. Holser, and E. S. Saltzman, 1983. Isotope shifts in the late Permian of the Delaware Basin, Texas, precisely timed by varved sediments. *Earth and Planet. Sci. Lett.*, 66: 111-124.
- Zika, R. G., J. W. Moffett, R. G. Petasne, W. J. Cooper, and E. S. Saltzman, 1985. Spatial and temporal variations of hydrogen peroxide in Gulf of Mexico waters. *Geochim. Cosmochim. Acta*, 49: 1173-1184.
- Saltzman, E. S., D. L. Savoie, J. M. Prospero, and R. G. Zika, 1985. Atmospheric methanesulfonic acid and non-sea-salt sulfate at Fanning and American Samoa. *Geophys. Res. Lett.*, 12: 437-440.
- Zika, R. G., E. S. Saltzman, and W. J. Cooper, 1985. Hydrogen peroxide concentrations in the Peru upwelling area. *Mar. Chem.*, 17: 265-275.
- Saltzman, E. S., D. L. Savoie, J. M. Prospero, and R. G. Zika, 1986. Methane sulfonic acid and non-sea-salt sulfate in the Pacific Ocean; regional and seasonal variations. *J. Atmos. Chem.*, 4: 227-240.
- Saltzman, E. S., D. L. Savoie, J. M. Prospero, R. G. Zika, and B. Mosher, 1986. Elevated atmospheric sulfur levels off the Peruvian Coast. *J. Geophys. Res.*, 91: 7913-7918.
- de Mello, W. Z., D. J. Cooper, W. J. Cooper, E. S. Saltzman, R. G. Zika, D. L. Savoie, and J. M. Prospero, 1987. Spatial and diel variability in the emissions of some biogenic sulfur compounds from a Florida *Spartina Alterniflora* coastal zone. *Atmos. Environ.*, 21: 987-990.

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- Cooper, W. J., E. S. Saltzman, and R. Zika, 1987. The contribution of rainwater to variability in surface ocean hydrogen peroxide. *J. Geophys. Res.*, 92: 2970-2980.
- Cooper, D. J. and E. S. Saltzman, 1987. Uptake of carbonyl sulfide by silver nitrate impregnated filters: implications for the analysis of low level atmospheric H₂S. *Geophys. Res. Lett.*, 14: 206-209.
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- Plane, J. M. C. and E. S. Saltzman, 1987. A study of the reaction Li + HCl by the technique of time-resolved laser induced fluorescence spectroscopy of Li(2²P_J - 2²S_{1/2}, $\lambda = 670.7$ nm) between 700 and 1000K. *J. Chem. Phys.*, 87: 4606-4611.
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- Cooper, D. J. and E. S. Saltzman, 1991. Measurements of atmospheric dimethyl sulfide and carbon disulfide in the Western Atlantic boundary layer. *J. Atmos. Chem.*, 12: 153-168.
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- Legrand, M., C. Feniet-Saigne, E. S. Saltzman, and C. Germain, 1992. Spatial and temporal variations of methanesulfonic acid and non-sea-salt sulfate in Antarctic ice. *J. Atmos. Chem.* 14: 245-260.
- Savoie, D. L., J. M. Prospero, R. J. Larsen, and E. S. Saltzman, 1992. Nitrogen and sulfur species in aerosols at Mawson, Antarctica, and their relationship to natural radionuclides. *J. Atmos. Chem.* 14: 181-204.
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