APPENDIX VIII. Publications and Presentations co-authored by GREF Students.
Key: Student Author; University Advisor; DOE Mentor(s), Past GREF Fellows that have become Mentors.

PUBLICATIONS:


**Ainsworth, Elizabeth A.**, **Long, S.P.** “What have we learned from fifteen years of Free Air Carbon Dioxide Enrichment (FACE)? A Meta-analytic review of the responses of photosynthesis, canopy properties and plant production to rising CO\textsubscript{2}.” *New Phytol.* 165: 351-372 (2005).


Moy, Christopher M., Moreno, P.I., Dunbar, R.B., Kaplan, R.B., Francois, J.-P., Villalba, R., Haberzettl, T., “Climate change in southern South America during the last two millennia.” In: Past Climate Variability in
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<th>Author(s)</th>
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Rose, W.I., Teasdale, R., Bailey, J., Chertkoff, D., Coombs, M., Eisinger, C., Hidayat, D., Riley, C., Rodriguez, L., Rosado Root, T.L., MacMynowski, D., Rogers, A.


PRESENTATIONS:


Allison, Steven D., Jastrow, J.D. “Microbial enzyme activity and carbon cycling in grassland soil fractions.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2004).


Allison, Steven D., Jastrow, J.D. “Microbial enzyme activity and carbon cycling in grassland soil fractions.” Marvin L. Wesely Award Address at the Global Change Education Program End of Summer Workshop (2004).


Anchukaitis, Kevin J., Evans, M.N., Wheelwright, N.T., Schrag, D.P., “High resolution paleoclimate information from trees without annual rings in tropical montane cloud forests.” Climate Change and Tropical Montane Forest Conservation Workshop (2007).


Bialk, Heidi M., Bleam, W., “Chemical microscopy studies of peat from the Arctic coastal plane.” Oral Presentation at the Global Change Education Program Orientation (2003).


Busch, Christopher B., Hanemann, W.M. “Technological change in agriculture in southeastern Mexico; Implications for land use, deforestation, and climate change policy.” Oral Presentation at the Global Change Education Program End of Summer Workshop (2002).


Case Hanks, Anne T., Huey, L., Tanner, D., Vargas, O., Sjostedt, S., Olson, J.R., Chen, G., Lefer, B., Blake, D.R., “Photochemical activity in Mexico City during MILAGRO 2006: Results from the T1 site.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2007).


**Clements, Craig B.**, Haman, C., **Lefer, B.**, Beals, C. “Surface layer temperature structure observed at Summit, Greenland.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2008).


**Cregger, Melissa A.**, McDowell, N.G., Pockman, W., **Classen, A.T.** “Indirect effects of precipitation change drive nitrogen cycling in a pinyon-juniper woodland.” Oral Presentation at the Annual Meeting of the Association of Southeastern Biologists (2010).


Drake, Allison, Overpeck, J., Sweetnam, T., Balice, R.G. “Impacts of wildfire and climate patterns on vegetation


Dutcher, Dutcher D., McMurry, P.H., "Atmospheric aerosol composition as a function of hygroscopicity, volatility and density.” Oral Presentation at the Global Change Education Program Orientation (2004).

Dutcher, Dutcher D., McMurry, P.H., "Atmospheric aerosol composition as a function of hygroscopicity, volatility and density.” Oral Presentation at the Global Change Education Program End of Summer Workshop (2005).

Dutcher, Dutcher D., McMurry, P.H., "Atmospheric aerosol composition as a function of hygroscopicity, volatility and density.” Oral Presentation at the Global Change Education Program End of Summer Workshop (2007).


Farmer, E. Christina, deMenocal, P.B., Lynch-Stieglitz, J., Berry, P.J. “Using paired Mg/Ca and oxygen isotopic measurements of planktonic foraminifera to estimate tropical Atlantic thermocline shape.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2003).

**Farmer, E. Christina, deMenocal, P.B.** “Reconstructing tropical Atlantic paleoclimate from Mg/Ca and oxygen isotopes of planktonic foraminifera.” Oral Presentation at the Global Change Education Program End of Summer Workshop (2004).


**Fischer, Emily V., Hsu, C., Jaffe, D.A., Jeong, M.J., Gong, S.**, “Dragon breath in the American west: Inter-annual correlations between dust storms in Asia and PM₁₀ in the Western U.S. as seen by IMPROVE and MODIS Data.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2007).

**Fischer, Emily V., Jaffe, D.A.,** “Aerosol optical properties in the free troposphere over the Pacific northwest.” Oral Presentation at the Global Change Education Program Orientation (2008).

**Fischer, Emily V., Reitmiller, D., Jaffe, D.A.,** “Importing ozone precursors to the North American free troposphere: Spring 2008 peroxyacetyl nitrate (PAN) and NOₓ observations from Mount Bachelor.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2008).

**Fischer, Emily V., Jaffe, D.A.,** “Aerosol optical properties in the free troposphere over the Pacific northwest.” Marvin L. Wesely Award Address at the Global Change Education Program Orientation (2009).

**Fischer, Emily V., Jaffe, D.A.,** “How do the optical properties of Asian aerosols change when they cross the Pacific?” Poster Presentation at the Fall Meeting of the American Geophysical Union (2009).

**Fischer, Emily V., Perry, K.D., Jaffe, D.A.,** “Always downwind: The optical and chemical properties of aerosols transported to Mount Bachelor from across the Pacific and from California.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2010).

**Fischer, Emily V., Jaffe, D.A.,** Reitmiller, D., “Measurements and importance of PAN in the free troposphere: Multi-year springtime observations at the Mount Bachelor Observatory.” Oral Presentation at the International Symposium on Atmospheric Chemistry and Physics at Mountain Sites (2010).


**Fontana, Catherine G.,** Strickland, M.S., Keiser, A.D., **Bradford, M.A.,** “The climate history of microbial communities influences the optimal temperature and moisture regimes of decomposition.” Poster presentation at the Annual Meeting of The Ecological Society of America (2010).


Gray, Sharon B., Strellner, R.S., Puthuval, K.K., Leakey, A.D.B., “Free-air CO$_2$ enrichment does not lessen the impact of drought on soybean photosynthesis under field conditions.” Poster Presentation at the Annual Meeting of The Ecological Society of America (2010).


Hastings, Meredith G., Malcolm, E., Kaiser, J., Sigman D.M. “Controls on the nitrogen and oxygen isotopic composition ($\delta^{15}N$, $\delta^{18}O$, $\delta^{17}O$) of atmospheric nitrate in Princeton, NJ.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2004).


Higgins, Paul A.T. “Multiple equilibria and irreversibility in the climate system.” Oral Presentation at the DOE Workshop on Response Options to Rapid or Severe Climate Change (2001).


Higgins, Paul A. “Ecosystem responses and feedbacks to abrupt climate change.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2002).


Hoffman, Rachael C., Gebel M.E., Fox, B.S., Finlayson-Pitts, B.J., “Knudsen cell studies of the uptake and reaction of HNO3 and N2O5 on sub-layers of NaCl.” Oral Presentation at the Annual Meeting of the American Meteorological Society (2003).


Hudiburg, Tara W., Law, B.E., Martin, J., “An evaluation of the impact of forest biomass harvest for biofuels on carbon storage in the US west coast states under different management scenarios.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2009).


Iversen, Colleen M., Classen, A.T., Jastrow, J.D., Norby, R.J. “At the root of the response: Carbon and nitrogen cycling in a CO$_2$ enriched deciduous forest.” Marvin L. Wesely Award Address at the Global Change Education Program End of Summer Workshop (2007).

Iversen, Colleen M., Classen, A.T., Jastrow, J.D., Norby, R.J. “The causes and consequences of increased fine root production in a CO$_2$ enriched sweetgum plantation.” Oral Presentation at the Global Change Education Program Orientation (2008).


Keifer, C., Kardol, P., Kaiser, J., Jastrow, J.D. “Can we detect an Influence over North America from increasing Asian NOx emissions?” Oral Presentation at the Fall Meeting of the American Geophysical Union (2007).


Jastrow, J.D., Swanston, C.W., O’Brien, Sarah L., Moran, K.K., Porras, R.C., Torn, M.S., “Incorporation of root and surface litter inputs into soil C pools: What do different physical fractionation approaches tell us?” Oral Presentation at the Fall Meeting of the American Geophysical Union (2008).


Kreisberg, N.M., Hering, S.V., **Williams, Brent J., Goldstein, A.H.**, “Quantitation method for hourly organic speciation of atmospheric urban aerosols.” Poster Presentation at the Fall Meeting of the **American Geophysical Union** (2006).


**Kueppers, Lara M., Harte, J.** “Soil carbon dynamics along a forest type and elevation gradient in the Rocky Mountains: Ecological feedbacks to climate change.” Poster Presentation at the Fall Meeting of the **American Geophysical Union** (2000).

**Kueppers, Lara M., Harte, J.** “Soil carbon dynamics along a forest type and elevation gradient in the Rocky Mountains: Ecological feedbacks to climate change.” **Poster Presentation** at the **Global Change Education Program End of Summer Workshop** (2000).


Leakey, A.D.B., Uribejarrea, M., **Ainsworth, Elizabeth A.**, Naidu, S.L., **Rogers, A., Ort, D.R., Long, S.P.** “Photosynthesis, productivity and yield of Zea mays are not affected by fully open-air elevation of CO₂


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Loaiza, V., **Habeck, Christopher W., Lindroth, R.L.**, “Chemical changes in plants grown under enriched CO₂ and O₃ influence prairie vole (*Microtus ochrogaster*) growth.” Poster Presentation at the Annual Meeting of The Ecological Society of America (2008).


Mazloom, S., Mackey, Katherine R.M., Paytan, A., “Does atmospheric deposition support phytoplankton productivity in Monterey Bay, CA?” Poster Presentation at the Fall Meeting of the American Geophysical Union (2008).


Mastrandrea, Michael D., Schneider, S.H. “Dangerous climate change.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2003).


Mastrandrea, Michael D., Tebaldi, C., Snyder, C., Schneider, S.H., “Projections of climate extremes in California.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2008).


Placella, Sarah A., Herman, D.J., Firestone, M.K., “Using transcripts abundance to identify the origin of nitrous oxide emissions during soil wet-up.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2010).


**Price, Heather U., Jaffe, D.A., Doskey, P.V., McKendry, I.** “Airborne measurements of NMHCs, O₃, CO and aerosol scatter in the northeastern Pacific during the spring of 2001 PHOBEA-II Campaign.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2001).


Reed, Kevin A., Jablonowski, C., “Assessing the significance of varying AGCM physics packages on idealized tropical cyclone simulations.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2010).


Reed, Sarah E., Amundson, R.G., “A new approach to testing the fossorial rodent hypothesis of Mima mound formation using airborne-based LIDAR and a diffusive sediment transport model.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2007).

Reed, Sarah E., Amundson, R.G., “Evidence for biologic response to pedogenesis along the Merced River chronosequence, Central Valley, California.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2010).


Reidmiller, D.R., Jaffe, D.A., Fischer, Emily V., Finley, B., Kangas, R., “NO₃ observations in the free troposphere at the Mt. Bachelor Observatory.” Poster Presentation at the Symposium on Atmospheric Chemistry and Physics at Mountain Sites (2010).


Roesler, Erika L., Posselt, D.J., Rood, R.B., “Comparison of bin and bulk microphysics in simulations of springtime Arctic mixed phase stratocumulus clouds with a higher order turbulence parameterization.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2011).


Thompson, R.S., Fischer, Emily V., Jaffe, D.A., Di Perro, M., “Integrating MISR, MODIS, and CALIPSO satellite data with in-situ measurements at Mount Bachelor to determine aerosol plume characteristics.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2009).


Titcombe, Mari E., Chen, M., Zhao, J., Hanson, D.R., McMurry, P.H., “Chemical nucleation of sulfuric acid and reduced organic species.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2010).

Titcombe, Mari E., Zhao, J., Hanson, D.R., McMurry, P.H., “The chemical nucleation of sulfuric acid and amines: Reaction chamber studies and atmospheric observations.” Oral Presentation at the Global Change Education Program End of Summer Workshop (2010).


Wardell, Lois J., Kyle, P.R. “CO₂ flux measurements of an active volcano.” Poster Presentation at the Annual Community Meeting of the UNAVCO (1999).


Wardell, Lois J., Kyle, P.R., Counce, D., “The use of chemical traps to determine metal and halogen flux from Mt. Erebus, Antarctica.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2002).


McDowell, N.G., “Climate change and the rising cost of living for forests in the southwestern United States and beyond.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2012).


Winiecki, Shelby E., Frederick, J.E. “Solar ultraviolet radiation received in an urban area.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2003).


Yang, Wendy H., Ryals, R., Cusack, D., Silver, W.L., “Patterns in nitrogen cycling across diverse California soils subjected to nitrogen inputs.” Poster Presentation at the Fall Meeting of the American Geophysical Union (2008).


Yang, Wendy H., Teh, Y.A., Silver, W.L. “Using 15N2O pool dilution to understand N2 and N2O dynamics in a peatland pasture.” Oral Presentation at the Fall Meeting of the American Geophysical Union (2009).


