

APPENDIX IV. Publications and Presentations co-authored by SURE Students.

Key: Student Author; DOE Mentor(s), Past GREF Fellows that have become Mentors.

PUBLICATIONS:

- Berg, L.K., Mills, David L. Jr.**, Kassianov, E.I., Long, C.N. "Three dimensional effects and shortwave cloud radiative forcing associated with shallow cumuli over the central North America." *Proc. of the SPIE* 7475, Eds: R.H. Picard, K. Schafer, A. Comeron, E.I. Kassianov, and C.J. Mertens; 747504; doi:10.1117/12.832327 (2009).
- Berg, L.K.**, Kassianov, E.I., Long, C.N., **Mills, David L. Jr.** "Surface summertime radiative forcing by shallow cumuli at the Atmospheric Radiation Measurement Southern Great Plains site." *J. Geophys. Res. Atmos.* 116: D01202 (2011).
- Coquard, J., **Duffy, P.B.**, Taylor, K.E., **Iorio, John P.**, "Present and future surface climate in the western USA as simulated by 15 global climate models." *Clim. Dynam.* 23: 455-472 (2004).
- Doskey, P.V., Bialk, Heidi M.**, "Automated sampler for the measurement of non-methane organic compounds." *Environ. Sci. Technol.* 35: 591-594 (2001).
- Drayton, P.J., **Blazer, Cherelle A., Marley, N.A., Gaffney, J.S.**, "Improved instrumentation for near real-time measurement of reactive hydrocarbons, NO₂, and peroxyacyl nitrates (PANs)." *Am. Meteorol. Soc. Glob. Change Preprints* [3.1](#), p. 56-59 (2000).
- Dreyfus, Gabrielle B.**, Schade, G.W., **Goldstein, A.H.** "Investigating the contribution of isoprene oxidation to ozone production." *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 81: A52H-10 (2000).
- Dreyfus, Gabrella B.**, Schade, G.W., **Goldstein, A.H.**, "Observational constraints on the contribution of isoprene oxidation to ozone production on the western slope of the Sierra Nevada, CA." *J. Geophys. Res.* 107: D19, 4365 (2002).
- Duffy, P.B.**, Govindasamy, B., **Iorio, John P.**, Milovich, J., Sperber, K.R., Taylor, K.E., Wehner, M.F., Thompson, S.L., "High resolution simulations of global climate, Part 1: Present climate." *Clim. Dynam.* 21: 371-390 (2003).
- Duffy, P.B.**, Arritt, R.W., Coquard, J., Gutowski, W., Han, J., **Iorio, John P.**, Kim, J., Leung, L., Roads, J., **Zeledon, Esther B.**, "Simulations of present and future climates in the western United States with four nested regional climate models." *J. Climate* 19: 873-894 (2006).
- Fischer, Emily V., Jaffe, D.A., Marley, N.A., Gaffney, J.S., Marchany-Rivera, Angie** "Optical properties of aged Asian aerosols observed over the U.S. Pacific Northwest" *J. Geophys. Res.*, 115: D20209 (2010).
- Gaffney, J.S., Marley, N.A., Drayton, P.J., Cunningham, M.M.**,
- Baird, J. Christopher**, Dintaman, J., **Hart, Heather, L.** "Phoenix, Arizona revisited: Indications of aerosol effects on O₃, NO₂, UV-B, and NO₃." *Am. Meteorol. Soc. Glob. Change Preprints* [2.4](#), p.43-50 (2000).
- Gaffney, J.S., Marley, N.A., Ravelo, Rose M.** "Puerto Rico – 2002: Field studies to resolve aerosol processes." *Am. Meteorol. Soc. Glob. Change Preprints* [2.3](#), (2000).
- Gaffney, J.S., Marley, N.A., Drayton, P.J., Doskey, P.V., Kotamarthi, V. R., Cunningham, M. M., Baird, J. Christopher**, Dintaman, J., **Hart, Heather L.** "Field observations of regional and urban impacts on NO₂, ozone, UV-B, and nitrate radical production rates: Nocturnal urban plumes and regional smoke effects." *Atmos. Environ.* 36: 825-833 (2002).
- Gaffney, J.S., Marley, N.A., Tackett, Michael J., Sturchio, N.C., Heraty, L., Martinez, N., Hardy, Kavita D., Guilderson, T.P.** "Evidence for Biomass Burning from ¹⁴C and ¹³C/¹²C measurements at T-0 and T-1." *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 88: A43-1420 (2007).
- Gaffney, J.S., Marley, N.A., Tackett, Michael J., Stuchio, N.C., Heraty, L., Martinez, N., Hardy, Kavita D., Guilderson, T.P.** "Biogenic Carbon Dominance Based on ¹³C/¹²C and ¹⁴c measurements of total carbon at T-0 and T-1 sites during MILAGRO." *Am. Meteorol. Soc. Glob. Change Preprints* [J 1.1](#)(2008).

- Goldstein, A.H.**, Schade, G.W., **Dreyfus, Gabrella B.** “Whole ecosystem measurements of biogenic hydrocarbon emissions.” *Final Report, State of California Air Resources Board*, No. 98-328 (2001).
- Gray, Sharon B.**, **Classen, A.T.**, Kardol, P., Yermakov, Z., **Miller, R.M.** “Multiple climate change factors interact to alter soil microbial community structure in an old field ecosystem.” *J. Soil Sci. Soc. Am.* 75: 2217-2226 (2011).
- Harley, R.A., **Hooper, Daniel S.**, Kean, A.J., **Kirchstetter, T.W.**, Hessoj, J.M., Balberan, N.T., Stevenson, E.D., and Kendall, G.R. “Effects of reformulated gasoline and motor vehicle fleet turnover on emissions and ambient concentrations of benzene.” *Environ. Sci. Technol.* 40: 5084-5088 (2006).
- Harris, Lucas M.**, **Kotamarthi, V.R.** “The characteristics of the Chicago lake breeze and its effects on trace particle transport: Results from an episodic event simulation.” *J. Appl. Meteorol.* 44:1637-1654 (2005).
- Huston, M.A.**, **McBride, Alan C.** “Evaluating the relative strengths of biotic versus abiotic controls on ecosystem processes.” In *Biodiversity and Ecosystem Functioning: Synthesis and Perspectives*. M. Loreau, S. Naeem, P. Inchausti, Eds. Oxford University Press, 47-60 (2002).
- Iorio, John P.**, **Guilderson, T.P.** “Holocene climate of the mesotropics and comparison of paleodata climate reconstruction with PMIP simulations of climate at 6000 ¹⁴C years ago.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 83: GS41A-11 (2002).
- Iorio, John P.**, **Duffy, P.B.**, Govindasamy, B. “Effects of model resolution and subgrid scale physics on the simulation of precipitation in the continental United States.” *Clim. Dynam.* 23: 243-258 (2004).
- Kirchstetter, T.W.**, Novakov, T., Haesloop, O., **Boone, Aaron**, Aguiar, J. “Evaluation of the aethalometer and the coefficient of haze sampler for measuring black carbon concentration.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 86: A22B-0895 (2005).
- Kunda, Maithilee**, Bird, N.L., Canella, L., **Marland, G.**, Schlamadinger, B., “Carbon management, earth surface albedo, and biomass fuel.” *Proceed. Eur. Biomass Conf.* (2005).
- Kunda, Maithilee**, **West, T.O.** “Tillage and yield study.” *Technical Report, Oak Ridge National Laboratory* (2006).
- LeRoy, Sverre L.**, Zimmerman, S.R., Hemming, S.R., Stine, S., **Guilderson, T.P.** “Radiocarbon constraints on fossil thiolite tufa formation in the Mono Basin, Ca, USA.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 90: PP13B-1402 (2009).
- Lichtenberger, Adele M.**, **Shaw, W.J.**, Berg, L.K., Berkowitz, C.M., Ogren, J.A., Andrews, E. “Digital inversion and initial analysis of nephelometer data from the CHAPS campaign.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 89: A31-0180 (2008).
- Liu, Peter S.K., Deng, R., Smith, K.A., Williams, L.R., Jayne, J.T., Canagaratna, M.R., **Moore, Kori D.**, Onasch, T.B., **Worsnop, D.R.**, Deshler, T. “Transmission efficiency of an aerodynamic focusing lens system: Comparison of model calculations and laboratory measurements for the aerodyne aerosol mass spectrometer.” *Aerosol Sci. Technol.* 41: 721-733 (2007).
- Marland, G.**, **Fruit, Kristy**, Sedjo, R. “Accounting for sequestered carbon: The question of permanence.” *Environ. Sci. Policy* 4:259-268 (2001).
- Marley, N.A.**, **Gaffney, J.S.**, **Baird, J.Christopher**, **Blazer, Cherelle A.**, Drayton, P.J., Frederick, J.E. “An empirical method for the determination of the complex refractive index of size-fractionated atmospheric aerosols for radiative transfer calculations.” *Aerosol Sci. Technol.* 34: 535-549 (2001).
- Marley, N.A.**, **Gaffney, J.S.**, Drayton, P.J., **Ravelo, Rose M.** “The Northeast Oxidant and Particulate Study (NEOPS): Preliminary results from the Centerton, New Jersey field site.” *Am. Meteorol. Soc. Glob. Change Preprints* 2.3, p. 29-33 (2001).
- Marley, N.A.**, **Gaffney, J.S.**, White, R.V., **Cuadra-Rodriguez, Luis A.**, Herndon, S.E., Dunlea, E., Volkamer, R.M., Molina, L.T., Molina, M.J. “Fast gas chromatography with luminol chemiluminescence detection for the simultaneous determination of nitrogen dioxide and peroxyacetyl nitrate in the atmosphere.” *Rev. Sci. Instr.* 75: 4595-4605 (2004).

- Marley, N.A., Gaffney, J.S., Tackett, Michael J., Sturchio, N.C.,** Heraty, L., Martinez, N., **Hardy, Kavita D., Marchany-Rivera Angie, Guilderson, T.P.,** MacMillan, A., Steelman, K. “The impact of biogenic carbon sources on aerosol absorption in Mexico City.” *Atmos. Chem. Phys.* 9: 1537-1549 (2009).
- McDowell, N.G., Bowling, D.G., **Lunch, Claire K.,** Welker, J., Anthoni, P., Law, B., **Bond, B.J.,** Ehleringer, J.R. “Oxygen-18 content of ecosystem respiration across climatic gradient in Oregon.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 82: B11A-06 (2001).
- McDowell, N.G., Phillips, N., **Lunch, Claire K., Bond, B.J.,** Ryan, M.G. “An investigation of hydraulic limitation and compensation in large old Douglas fir trees.” *Tree Physio.* 22: 763-774 (2002).
- McDowell, N.G., Allen, C.D., **Marchall, Laura** “Growth, carbon-isotope discrimination and drought associated mortality across a *pinus ponderosa* elevational transect.” *Glob. Change Biol.* 16: 399-415 (2010).
- McMeeking, Gavin R., Whiteman, C.D.,** Powell, S., Clements, C.B. “Terrain and Ambient wind effects on the warming footprint of a wind machine.” *Am. Meteorol. Soc. Glob. Change Preprints* pp 81-82(2002).
- Mills, David L., Berg, L.K.,** Kassinov, E.I., Long, C.N. “Shortwave forcing by shallow cumuli over the Southern Great Plains.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 89: A11D-0165 (2008).
- Newton, T., **Paw U, K.T.,** Falk, M., **Wade-Murphy, Jessica,** Shaw, R.H., King, T., Hsiao, T.C., Pyles, R.D., Matista, A., Sunquist, A., Park, Y-S., Wabeh, H. “The microclimate of a 65 m tall old growth coniferous forest.” *Am. Meteorol. Soc. Agr. Forest Meteorol. Preprints* (2000).
- Norby, R.J.,** Todd, D.E., **Fults, Jason C.,** Johnson, D.W. “Allometric determination of tree growth in a CO₂ enriched sweetgum stand.” *New Phytol.* 150: 477-487 (2001).
- Norby, R.J.,** Ledford, J., Reilly, C.D., **Miller, Nicole E.,** O’Neill, E.G. “Fine root production dominates response of a deciduous forest to atmospheric CO₂ enrichment.” *Proc. Nat. Acad. Sci.* 101: 9689-9693 (2004).
- Persad, Greetta G., Menon, S.,** Sednev, I. “An assessment of uncertainties in the NASA GISS ModelE GCM due to variations in the representation of aerosol/cloud interactions.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 89: A21D-0212 (2008).
- Porch, W.M., Winiiecki, Shelby E.,** O’Steen, L. “Island and ship trail clouds: The rosetta stone of clouds, pollution, and climate?” *Front. Geosci.* (May 2001).
- Porch, W.M., Winiiecki, Shelby E.** “Tropical western pacific island cloud trail studies.” *Proceedings of the 13th ARM Science Team Meeting* (2003).
- Porch, W.M., Winiiecki, Shelby E.,** O’Steen, L. “Island and ship trail clouds: The Rosetta Stone of clouds, pollution, and climate?” *Los Alamos Technical Report LA-UR-01-3042* (2001).
- Reisen, F., **Wheeler, Stephanie B., Arey, J.** “Methyl- and dimethyl-/ethyl-nitronaphthalenes measured in ambient air in southern California”. *Atmos. Environ.* 37: 3653-3657 (2003).
- Riley, W.J., Randerson, J.T., **Fischer, M.L.,** Hsueh, D. **Hatch, Joshua G.** “Relating the $\Delta^{14}\text{C}$ value of annual grasses to spatially and temporally distributed fossil fuel emissions in California.” *LBNL Technical Report, LBNL-60712* (2005).
- Riley, W.J., Hsueh, D.Y., Randerson, J.T., **Fischer, M.L., Hatch, Joshua G.,** Pataki, D.E., Goulden, M.L. “Where do fossil fuel carbon dioxide emissions from California go? An analysis based on radiocarbon observations and an atmospheric transport model.” *J. Geophys. Res.* 113: G04002 (2008).
- Schade, G.W., **Drevfus, Gabriella B., Goldstein, A.H.** “Atmospheric methyl-tertiary-butyl-ether (MTBE) at a rural mountain site in California.” *J. Environ. Qual.* 31: 1088-1094 (2002).
- Sedjo, R.A., **Marland, G., Fruit, Kristy** “Carbon emissions offset trading: A tradable permit system for temporary carbon sequestered.” *Proceed. CATP* (2002).
- Sebastian, A., West, T.O., **Roddy, Adam B., Marland, G.,** Bhaduri, B, L. “Lateral flow of carbon from US agricultural lands: Carbon uptake, consumption, and respiration.” *Eos Trans. Am. Geophys. Union Fall Meet. Suppl.* 86: B44B-03 (2005).

Stewart, Jebb Q., Whiteman, C. D., Steenburgh, W.J., Bian, X. “A climatological study of thermally driven wind systems of the U.S. intermountain west.” *Bull. Am. Meteorol. Soc.* May: 699-708 (2002).

Stuble, K.L., Rodriguez-Cabal, M.A., **McCormick, Gail L.,** Dunn, R.R., **Sanders, N.J.** “Tradeoffs, competition, and coexistence in eastern deciduous forest ant communities.” *Oecologia*, DOI 10.1007/s00442-012-2459-9.

Swanston, C.W., Torn, M.S., Hanson, P.J., Southon, J.R., **Garten, C.T., Hanlon, Erin M.,** Ganio, L. “Initial characterization of processes of soil carbon stabilization using forest stand level radiocarbon enrichment.” *Geoderma* 128: 52-62 (2005).

Tyner Marlene L., Classen, A.T. “Climate change effects on species composition mediates decomposition in an old-field ecosystem.” *J. Undergrad. Res.* 7: 110-114 (2007).

West, T.O., McBride, Alan C. “The contribution of agricultural lime to carbon dioxide emissions in the United States: dissolution, transport, and net emissions.” *Agr. Ecosyst. Environ.* 108:145–154. (2005).

West, T.O., **Marland, G.,** Nagendra, S., Bhadrui, B., **Roddy, Adam B.** “The human carbon budget: an estimate of the spatial distribution of metabolic carbon consumption and release in the United States.” *Biogeochemistry* 94: 29-41 (2009).

Yang, X., Ye, C.Y., **Bisaria, Anjali,** Tuskan, G.A., **Kalluri, U.C.** “Identification of candidate genes in *Arabidopsis* and *Populus* cell wall biosynthesis using text mining, co-expression network analysis and comparative genomics.” *Plant Sci.* 181: 675-687 (2011).

PRESENTATIONS:

Alvarez-Aviles, Laura, Novakov, T., Kirchstetter, T.W., Corrigan, C.E. “Comparison of black carbon determination by evolved gas analysis and optical attenuation methods.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).

Armbruster, Luke, Fischer, M.L. “Quantifying greenhouse gas measurement errors for inverse model estimates.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2010).

Aragon, Nicole A., Miller, R.M., Allison, V. “Mycorrhizal quantification for a prairie chronosequence.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).

Aragon, Nicole A., Gill, R. “Mycorrhizal quantification of prairie chronosequence.” Oral Presentation at the Washington State University College of Science *Undergraduate Research Symposium* (2004).

Baird, J. Christopher, Marely, N.A., Gaffney, J.S. “Using chemiluminescence and other basic properties to detect peroxyacyl nitrates in the troposphere.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).

Beck, Anna R., Doskey, P.V., Modey, W., Schmeling, M. “Chemical processing of a lake-land breeze effect: Study of non-methane hydrocarbons in Chicago.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).

Beck, Anna R., Doskey, P.V. “Hydrocarbon air-surface exchange from grasslands.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).

Berberena-Alonso, Maritere, Weinstein-Lloyd, J.B. “The collection efficiency of ammonia in a real time fluorometric analyzer.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2006).

Berberena-Alonso, Maritere, Weinstein-Lloyd, J.B. “The collection efficiency of ammonia gas in a real time fluorometric analyzer.” Oral Presentation at the *Annual Biomedical Research Conference for Minority Students* (2006).

Berberena-Alonso, Maritere “The collection efficiency of ammonia in a real time fluorometric analyzer.” Poster Presentation at the *Summer Student Supplemental Program*, Brookhaven National Laboratory (2006).

- Berg, Zara K., Iverson, Colleen M., Norby, R.J.** “The effects of nitrogen fertilization on the competitiveness of invasive species.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Bevans, John R., Rogers, A., Heady, L., Milne, C.** “Effects of elevated CO₂ on *Populous* metabolites.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Bevans, John R., Classen, A.T.** “Multi-factor climate change effects on woody seedlings in an old field ecosystem.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Bialk, Heidi M., Doskey, P.V., Gaffney, J.S.** “A collection method for nonmethane organic compounds.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Bialk, Heidi M., Doskey, P.V., Gaffney, J.S.** “A study of non-methane hydrocarbons in the atmosphere.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Blazer, Cherelle A., Marley, N.A., Drayton, P.J., Gaffney, J.S.** “Real-time olefin monitor based upon ozone chemiluminescent reactions.” Poster Presentation at the National Meeting of the *American Chemical Society* (1999).
- Bond, B.J., Czarnomski, N., Davis, K., Defrosses, N., George, K., Gehring, N., Licata, J., Lunch, Claire K., McDowell, N.G. Ocheltree, T. Phillips, N. Pypker, T. Reed, Sarah E., Schauer, A., Ryan, M., Williams M.** “Growth and photosynthesis at Wind River”. Invited Oral Presentation at the Annual Meeting of the *Wind River Canopy Crane Research Facility* (2004).
- Bourque, Brody P., Berg, L.K., Gustafson, W.** “Preliminary analysis of the mixed layer depth during the Carbonaceous Aerosol and Radiative Effects Study (CARES).” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Bourque, Brody P., Berg, L.K., Gustafson, W.** “Preliminary analysis of the mixed layer depth during the Carbonaceous Aerosol and Radiative Effects Study (CARES).” Oral Presentation at the *Louisiana Academy of Sciences* (2011).
- Brouque, Brody P., Berg, L.K., Gustafson, W.** “Preliminary analysis of the mixed layer depth during the Carbonaceous Aerosol and Radiative Effects Study (CARES).” Oral Presentation at the *Northwestern University Undergraduate Research Symposium* (2011).
- Boyd, Ryan A., Leakey, A.D.B., Markelz, C., Strellner, R., Dommer, K.** “Are there genes essential for the stimulation of respiration and growth when plants are exposed to elevated carbon dioxide concentrations?” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Burns, Erin, Wolfe, A.K.** “Studying energy and water interactions on local and regional scales.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2007).
- Callahan, Rebecca, Torn, M.S.** “Effects of grazing land fire on root biomass and decomposition rates.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Case, Anne T., Lee, Y-N.** “Detection of formaldehyde in the Central California Ozone Study (CCOS), July 2000.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Chmura, Nicolas T., Menon, S.,** “Analyzing aerosol-cloud interactions using MODIS data.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Clancy, Tara M., Washington, W.M.** “Statistical analysis of North Atlantic hurricanes.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2006).
- Classen, A.T., Iversen, Collen M., Guthrie, Caitlin R., Norby, R.J.** “Elevated atmospheric CO₂ concentrations do not alter net nitrogen mineralization rates in a CO₂ enriched sweetgum forest.” Oral Presentation at the Annual Meeting of *The Ecological Society of America* (2008).
- Cuadra-Rodriguez, Luis A., Gaffney, J.S., Marley, N.A.** “Nitrogen dioxide, peroxyacetyl nitrates, and black carbon measurements in Chicago.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).

- DeFlorio, Michael J., Wong, Angela, Fischer, M.L.** “Improving estimates of high global warming potential gas emissions for California.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Doyle, Kelly, Kirchstetter, T.W.,** Hadley, O., Preble, C., “Black carbon: Optical analysis of particle deposits and evaluation of daily personal exposure.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Drayton, P.J., **Blazer, Cherelle A., Marley, N.A., Gaffney, J.S.** “Improved instrumentation for near real-time measurement of reactive hydrocarbons, NO₂, and peroxyacyl nitrates” Oral Presentation at the National Meeting of the *American Meteorological Society* (2000).
- Dreyfus, Gabrielle B.,** Schade, G.W., **Goldstein, A.H.** “MTBE mixing ratios at a remote site in the Sierra-Nevada mountains, California: Implications for OH concentration in an urban plume.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Dreyfus, Gabrielle B.,** Schade, G.W., **Goldstein, A.H.** “Investigating the contribution of isoprene oxidation to ozone production.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Dreyfus, Gabrielle B.,** Schade, G.W., **Goldstein, A.H.** “Investigating the contribution of isoprene oxidation to ozone production.” Oral Presentation at the Fall Meeting of the *American Geophysical Union* (2000).
- Duffy, P.B.,** Coquard, J., Gutowski, W., Han, J., **Iorio, John P.,** Kim, J., Leung, L.-R., Roads, J., **Zeledon, Esther B.** “Uncertainties in regional climate: Intercomparison and evaluation of simulations of present and future climate in California.” Poster Presentation at the Fall Meeting of the *American Geophysical Union* (2010).
- Dunston, David A., Davidson, E.A.,** Dail, B. “Influence of the amount and form of nitrogen on the decomposition of red spruce needles at the Howland Forest, Howland, ME.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Easter, Shane,** Phillips, C., **Bond, B.J.** “Accounting for variability in soil respiration: Temperature versus phenology.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Eller, Jonathan R., Tackett, Michael J., Marley, N.A., Gaffney, J.S.** “Determination of radon adsorption to atmospheric aerosols by disequilibria of its progeny.” Poster Presentation at the Southwest Regional Meeting of the *American Chemical Society* (2008).
- Eller, Jonathan R., Gaffney, J.S., Marley, N.A.** “Determination of radon adsorption to atmospheric aerosols by disequilibria of its progeny.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Erlenbach, Alison, Blasing, T.J.,** Hadley, S. “Energy, carbon, and climate: Projections to 2025.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Flick, Kate, Post, W.M.** “Soil carbon dynamics of elevated CO₂ in a sweetgum Free Air Carbon Dioxide Enrichment (FACE) site.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Flick, Kate, Foley, J.A.,** Alatout, S. “Environmental decision making: Mining corporations, American Indians, and the environment.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Fontana, Catherine G., Brodie E.L.,** Wu, C., Hazen, T. “The impact of climate change on soil microbial communities and their feedback to the environment.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Foote, Eric M., Boehm, A.B.,** Yamahara, K., de Sieyes, N. “Submarine groundwater discharge in the surf zone at Sinston Beach, California.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Fruit, Kristy, Marland, G.** “Renting carbon emission credits.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).

- Fujita, Pauline A., Miller, R.M., Jastrow, J.D.** “Factors affecting carbon exudate levels for *adropogon geradii* in the presence and absence of mycorrhizal fungus.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Fults, Jason C., Norby, R.J., Todd, D.** “Biomass regression for *liquidamber styraciflua*.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Fults, Jason C., Hanson, P.J., Todd, D.E.** “The evaluation of allometric equations for estimating above-ground tree biomass and stand-level carbon accumulation.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Gaffney, J.S., Marley, N.A., Drayton, P.J., Cunningham, M.M., Baird, J. Christopher, Dintaman, J., Hart, Heather, L.** “Phoenix, Arizona, revisited: Indications of aerosol effects on O₃, NO₂, UV-B, and NO₃.” Oral Presentation at the Annual Meeting of the *American Meteorology Society*, (2000).
- Gaffney, J.S., Marley, N.A., Ravelo, Rose, M.** “Puerto Rico 2002: Field studies to resolve aerosol processes.” Oral Presentation at the National Meeting of the *American Meteorological Society* (2000).
- Gaffney, J.S., Marley, N.A., Tackett, Michael J., Sturchio, N.C., Heraty, L., Martinez, N., Hardy, Kavita D., Guilderson, T.P.** “Evidence for Biomass Burning from ¹⁴C and ¹³C/¹²C measurements at T-0 and T-1” Poster Presentation at the National Meeting of the *American Geophysical Union*, (2007).
- Gaffney, J.S., Marley, N.A., Tackett, Michael J., Sturchio, N.C., Heraty, L., Martinez, N., Hardy, Kavita D., Guilderson, T.P.** “Biogenic Carbon Dominance Based on ¹³C/¹²C and ¹⁴C measurements of total carbon at T-0 and T-1 sites during MILAGRO.” Oral Presentation at the National Meeting of the *American Meteorological Society* (2008).
- Gaffney, J.S., Marley, N.A., Gunawan, G., Tackett, Michael J.** “Gamma counting of atmospheric aerosol samples with high carbonaceous aerosol loadings: Observations of radon collection and short-lived daughters.” Oral Presentation at the National Meeting of the *American Chemical Society* (2008).
- Gagne, Amy Y., Davidson, E.A., Hughes, H.** “Carbon dioxide respiration from post-harvest slash piles in Howland, Maine”. [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Goertzen, Anna, Fallon, S., Guilderson, T.P.** “The impact of sediment and freshwater runoff on the growth of *porites* corals.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Goertzen, Anna, Cassman, K.G.** “Nitrogen mineralization in intensive maize based cropping systems.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Goldner, Aaron P., Ringler, T.D.** “GRASS Geographic Information Systems and climate modeling in the southwestern United States.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Gray, Sharon B., Classen, A.T., Norby, R.J., Iverson, Colleen M.** “Separating soil respiration into plant, fungal, and bacterial components using molecular targets and assays.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Gray, Sharon B., Dermody, O., DeLucia, E.H.** “Remote measurement of canopy reflectance shows changes in canopy phenology when soybeans are grown in elevated CO₂ and ozone in a field setting.” Oral Presentation at the Annual Meeting of *The Ecological Society of America* (2006).
- Gray, Sharon B., Miller, R.M., Classen, A.T., Schadt, C.** “The effects of climate change treatments on soil microbial community composition.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Gray Sharon B., Classen, A.T., Kardol P., Yermakov Z., Miller, R.M.** “Water availability mediates the effects of temperature and CO₂ on soil microbial community composition.” Poster Presentation at the Annual Meeting of *The Ecological Society of America* (2008).
- Guthrie, Caitlin R., Classen, A.T., Norby, R.J., Iverson, Colleen, M., Sides, K., Ledford, J.** “Elevated atmospheric CO₂ concentrations and the effects on net nitrogen mineralization rates in a CO₂ enriched

- sweetgum forest.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Hanlon, Erin M., Post, W.M.** “Results from soil root exudate bags at the Oak Ridge National Laboratory Free air CO₂ exposure (FACE) experiment.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Hanlon, Erin M., Post, W.M.** “Elevated CO₂ effects on soil carbon dynamics in a *liquidambar styraciflua* plantation.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Hardy, Kavita D., Sturchio, N.C., Heraty, L., Morrison, C.** “Isotope geochemistry of air and water.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Hardy, Kavita D., Cohen, R.C., Fry, J., Valin, L.** “Modeling secondary organic aerosol formation from photooxidation of isoprene in California.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Harris, Lucas M., Kotamarthi, V.R., Schmelling, M.** “The Chicago lake breeze. Its structure and effect on air quality.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Hart, Elizabeth, Jackson, R.B., McElrone, A., Crocker, T.** “Folier pathogen growth response to elevated CO₂.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Hart, Elizabeth, Hinckley, T.M., Jespersen, R.G.** “Cryptobiotic crust in alpine and sub-alpine regions.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Hart, Heather L., Gaffney, J.S., Drayton, P.V., Marley, N.A.** “Detection of atmospheric peracids using an HPLC chemiluminescent method.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Hart, Heather L., Miller, R.M.** “Quantification of arbuscular mycorrhizal fungal biomass in a changing global environment.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Hatch, Joshua G., Fischer, M.L.** “Spatial characterizations of methane greenhouse gas emissions from landfills and livestock in California.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Hatch, Joshua G., Fischer, M.L.** “Using carbon-14 analysis, emission databases, and modeling to itemize California’s carbon budget.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Hernandez-Cordero, Neiza M., Marley, N.A., Gaffney, J.S.** “Calibration of an air pollution measurement system.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Hernandez-Cordero, Neiza M., Weinstein-Lloyd, J.B.** “Analysis of ambient hydroperoxides in Pellston, Michigan, July 2001.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Hill, Katrina M., Hellmann, J., Alber, M.S., McDowell, M.A.** “Creation of a mathematical visceral leishmaniasis model.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Hoffman, Alexis, Lackmann, G.** “Does climate change impact supercell tornadogenesis?” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Hokanson, Erin P., Coulter, R.L.** “The Kansas nocturnal boundary layer and minimum temperatures.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Hooper, Daniel S., Kirchstetter, T.** “The use of filter bases light transmission techniques to measure aerosol light absorption properties.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Hooper, Daniel S., Kirchstetter, T., Apte, Z.** “On-road measurements of gasoline and diesel vehicle emissions in the Caldecott Tunnel.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).

- Hubbard, Timothy, Oechel, Walter**, and Sturtevant, Cove, “Carbon storage in the Alaskan Arctic tundra: An eddy covariance perspective.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Hunter, Kim, Curtis, P.**, Vogel, C., Bovard, B. “The role of coarse woody debris respiration in a Northern Michigan hardwood forest.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Iorio, John P., Madronich, S.**, Marsh, D. “The photolysis of O₂: Key to chemistry of the middle atmosphere.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Iorio, John P., Guilderson, T.** “Holocene climate of the mesotropics and comparison of paleodata climate reconstruction with PMIP simulations of climate at 6000 ¹⁴C years ago.” Poster Presentation at the Spring Meeting of the *American Geophysical Union* (2002).
- Jelley, Benjamin, Carmichael, G.R.**, Zhang, R. “Temporal and spatial forecasting of chemical phenomena for data collection and sampling by airplane.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Jenkins, Marisa, Edwards, N.T.** “Stem and branch respiration of trees in elevated CO₂ environments.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Judd, Robert, Marley, N.A., Gaffney, J.S.** “Design and construction of an ozone chemiluminescent olefin monitor.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2004).
- Kirchstetter, T.**, Novakov, T., Haesloop, O., **Boone, Aaron**, Aguiar, J. “Evaluation of the aethalometer and the coefficient of haze sampler for measuring black carbon concentration.” Poster Presentation at the Fall meeting of the *American Geophysical Union* (2005).
- Kirchstetter, T., Hooper, Daniel S.**, Apte, Z., Strawa, A., Hallar, G., Harley, R., Kendall, G., Hesson, J., Stevenson, E., Miguel, A., Eiguren-Fernandez, A. “Characterization of particle and gas phase pollutant emissions from heavy- and light-duty vehicles in a California roadway tunnel” Poser Presentation at the Fall Meeting of the *American Geophysical Union* (2004).
- Kunda, Maithlee, Marland, G.** “The impacts of albedo change on carbon sequestration strategies.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Kunda, Maithlee**, Bird, N.L., Canella, L., **Marland, G.**, Schlamadinger, B. “Carbon management, earth surface albedo, and biomass fuel.” Poster Presentation at the *14th European Biomass Conference* (2005).
- Kunda, Maithilee, Marland, G.**, West, T. “The impact of albedo change on carbon sequestration strategies.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Kunda, Maithlee, Marland, G.**, Canella, L., Schlamadinger, B., Bird, N. “Impact of albedo change on carbon sequestration strategies.” Oral Presentation at the *USDA Symposium on Greenhouse Gases and Carbon Sequestration in Agriculture and Forestry* (2005).
- Lambert, Christophert**, Pelini, S., Dzurisin, J., Keppel, J., Lobo, N., Marsico, T., **Hellman, J.** “Differential expression of a heat shock protein in a skipper butterfly, *Erynnis Propertius*.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Leisch, Jennifer, Disselkamp, R.S.**, Carpenter, M.A., Cowin, J.P. “The chemistry of carbonaceous soot aerosols with nitric acid.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- LeRoy, Sverre L.**, Zimmerman, S.H., Hemming, S.R., Stine, S., **Guilderson, T.P.** “Radiocarbon constraints on fossil thimolite tufa formation in the Mono Basin, Ca, USA.” Poster Presentation at the National Meeting of the *American Geophysical Union* (2009).
- Lichtenberger, Adele M., Shaw, W.J.**, Berg, L.K., Berkowitz, C.M., Ogren, J.A., Andrews, E. “Digital inversion and initial analysis of nephelometer data from the CHAPS campaign.” Poster Presentation at the National Meeting of the *American Geophysical Union* (2008).
- Lichtenberger, Adele M., Shaw, W.J.**, Berg, L.K. “Digital inversion and initial analysis of nephelometer data from

- the CHAPS campaign.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Lindaman, Edan, Porch, W.M.** “Nauru: Aerosol optical depth properties and trends.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Lindaman, Edan, Stevens, B.** “Simulation of precipitating convection during the RICO field project.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Liszka, Adria H., Benkovits, C.,** McGuigan, M. “Visualization of an atmospheric dataset.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Lunch, Claire K., Bond, B.,** Schauer, S., McDowell, N. “Embolism and repair in Douglas fir: Effects of age and season.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Lunch, Claire K.,** McDowell, N., Bowling, D., **Bond, B.,** Ehleringer, J. “Controlling factors of $^{18}\text{O}/^{16}\text{O}$ isotope ratios of CO_2 respired from four forests on the Oregon Transect.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Mandrick, Jessica,** Barnard, H.R., and **Bond, Barbara,** ““Using electromagnetic mapping along with point sensors to determine changes in soil water content over a large spatial grid.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Mandrick, Jessica, Twilley, R.R.** “A Highly engineered landscape.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2006).
- Marley, N.A., Blazer, Cherelle A.,** Drayton, P.J., **Gaffney, J.S.** “Ozone chemiluminescence detection: A potential sensitive and specific detection system for olefin monitoring,” Invited Oral Presentation at the Annual Meeting of the National Meeting of the *American Chemical Society*, (1999).
- Marley, N.A., Gaffney, J.S., Baird, J. Christopher, Blazer, Cherelle A.,** Drayton, P. J. “Determination of the complex refractive index of carbonaceous soot for radiative transfer calculations.” Oral Presentation at the *Seventh International Conference on Carbonaceous Particles in the Atmosphere* (2000).
- Marley, N.A., Gaffney, J.S.,** Drayton, P.J., **Ravelo, Rose M.** “Northeast oxidant and particulate study: preliminary results from the Centerton, New Jersey field site.” Oral Presentation at the National Meeting of the *American Meteorological Society*, (2001).
- Marchany-Rivera, Angie, Marley, N.A., Gaffney, J.S.** “Wavelength dependence of UV-Vis absorption of fine aerosol samples from Mexico City.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Marshall, Laura, McDowell, N.** “Climate change applications of stable carbon isotope dendrochronology in the Jemez Mountains of New Mexico.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Marshall, Laura, McDowell, N.** “Fire, water, and nitrogen: Growth constraints in a New Mexico ponderosa pine forest.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Martinez-Aviles, Monica,** Drayton, Paul J., **Marley, Nancy A. and Gaffney, Jeffrey S.** “Detection of stratospheric-tropospheric mixing by beryllium-7 counting.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Martinez-Aviles, Monica, Finlayson-Pitts, B.J.** “Relative rate studies of the reaction of chlorine atoms with crotonaldehyde and methyl vinyl ketone.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Menefield, Shallena, Marley, N.A., Gaffney, J.S.** “Using an aethalometer to determine optical absorption features from different black carbon sources.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Menon, S., Chumura, Nicholas T.** “Aerosol-Cloud Interactions detected by MODIS” Oral Presentation at the Annual *AEROCOM Workshop* (2004).

- McBride, Allen C., West, T., Marland, G.** “The fate of agricultural lime: Implications for carbon accounting.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- McDonald, Kelly, Muehlenbauer, M., Hoffman, A., Newman, L., Taghavi, S., van der Lelie, N., Koenig, K., Rogers, A.** “Effects of endophytic bacteria on leaf level photosynthetic performance in poplar grown for biofuel.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- McDowell, N.G., Bowling, D.G., **Lunch, Claire K.**, Welker, J., Anthoni, P., Law, B., **Bond, B.J.**, Ehleringer, J.R. “Oxygen-18 content of ecosystem respiration across climatic gradient in Oregon.” Poster Presentation at the National Meeting of the *American Geophysical Union* (2001).
- McInnis, Jennifer, Hadley, J.L.** “Effects of a wetland on carbon exchange in the Harvard Forest.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- McInnis, Jenifer.** “Why does the beaver swamp at the Harvard Forest appear to release so much CO₂ into the atmosphere? Oral Presentation at the *Harvard Forest Research for Undergraduates Symposium* (2005).
- McInnis, Jennifer, Williams, L.** “Quantifying aerosols: The characterization of the transmission and collection of an Aerodyne aerosol mass spectrometer.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- McInnis, Jennifer, Williams, L., Onash, T., Worsnop, D.** “FLAME-2: An analysis of aerosol emissions from biomass burning.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- McMeeking, Gavin R., Whiteman, C.D., Powell, S., Clements, C.B.** “Terrain and Ambient wind effects on the warming footprint of a wind machine.” Oral Presentation at the National Meeting of the *American Meteorological Society*, (2002).
- Melvin, Melissa, Kotamarthi, V.R.** “Aerosol loading and optical properties during the May 2003 Southern Great Plains ARM Aerosol IOP.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Menon, S., Chmura, Nicholas T.** “Aerosol-cloud interactions by MODIS.” Oral Presentation at the *AEROCOM-III Workshop* (2004).
- Miller, Jesse, Post, W.M.** “Analysis of factors influencing soil response in no-till agriculture.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Miller, Nicole E., Edwards, N.** “Increasing atmospheric temperature: Growth and acclimation of four deciduous tree species.” Poster Presentation at the *Global Change Education Program End of Summer Workshop* (2002).
- Miller, Nicole E., Edwards, N., Gunderson, C.** “Increasing atmospheric temperature: Effects on soil respiration and acclimation adjacent to four deciduous tree species.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Miller, Nicole E.** “Nutritional quality of tree foliage decreased by elevated atmospheric CO₂: Effects on shredder feces and implications for downstream collectors.” *Loyola University Mulcahy Scholarship Symposium* (2003).
- Miles, Gretchen R., McDowell, N., Hess, M., Crosby, F.** “Stable carbon isotopes: A tool for understanding carbon uptake of a semi-arid forest and a tropical rainforest.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Miles, Gretchen R.** “Stable carbon isotopes: A tool for understanding carbon uptake by forests” *Alfred University Environmental Studies Speakers Series* (2004).
- Miles, Gretchen R., Davidson, E.A.** “Highlights of the canopy nitrogen deposition experiment at the Howland Forest.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Mills, David L., Berg, L., Kassinov, E.** “Properties of fair weather cumuli at the ACRF Darwin site.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Mills, David L., Berg, L.K., Kassinov, E.I., Long, C.N.** “Shortwave forcing by shallow cumuli over the Southern Great Plains.” Poster Presentation at the Fall Meeting of the *American Geophysical Union* (2008).

- Mills, David, L., Berg, L.K., Kassinov, E.I., Shaw, W.** “Solar forcing effects of shallow cumuli at the ACRF Southern Great Plains site.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Moore, Kori D., Shaw, W.** “Preliminary observations of atmospheric boundary layer above Oklahoma City during the Joint Urban 2003 Field Program.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Moore, Kori D., Worsnop, D.** “Size dependent transmission of aerosols in an ARI aerosol mass spectrometer.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Morel, Alexandra, Davidson, E.A.** “Deadwood: The silent source of carbon dioxide.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2003).
- Mosher, Michael, Wesely, M.L., Cook, D., Martin, T., Song, J.** “Micrometeorological measurements of carbon dioxide flux above a grassland site.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Newton, T., **Paw U, K.T., Falk, M., Wade-Murphy, Jessica, Shaw, R.H., King, T., Hsiao, T.C., Pyles, R.D., Matista, A., Sunquist, A., Park, Y-S., Wabeh, H.** “The microclimate of a 65 m tall old growth coniferous forest.” Oral Presentation at the *American Meteorological Society, Conference on Agriculture and Forest Meteorology* (2000).
- Nguyen, Anthony, Halthore, R.N.** “Projections of sea level rise by 2100 and impacts on Long Island.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Nguyen, Anthony, Halthore, R., Butcher, T.** “Analysis of solar hydrogen systems for use with fuel cell vehicles.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Ochsner, Heidi, Davidson, E.A., Hughes, H.** “Measuring the contribution of deadwood respiration to total ecosystem carbon exchange at the Howland Research Forest, Howland, ME.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Pagano, Lara E., Miller, M., Bartholomew, M.J.** “A climatology of the decade leading to the Cloud and Land Surface Interaction Campaign (CLASIC).” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Pagano, Lara E., Lackmann, G., Aiyyer, A.** “Climate change and storm track change.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Persad, Greetta G., Menon, S., Sednev, I.** “An assessment of uncertainties in the NASA GISS ModelE GCM due to variations in the representation of aerosol/cloud interactions.” Poster Presentation at the Fall Meeting of the *American Geophysical Union* (2008).
- Persad, Greetta G., Menon, S., Sednev, I.** “The behavior and sensitivity of aerosol dynamics in the NASA GISS ModelE climate model.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Porch, W.M., Winiecki, Shelby E.** “Tropical western Pacific island cloud trail studies.” Oral Presentation at the *13th ARM Science Team Meeting* (2003).
- Post, W.M., Hanlon, Erin M., Garten, C.T.** “Elevated CO₂ effects on soil carbon dynamics in a sweetgum plantation.” Oral presentation at the Annual Meeting of the *Soil Science Society of America*, (2004).
- Ramirez, Javier, Doskey, P.V.** “The analysis of atmospheric hydrocarbons in Puerto Rico, 2001.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Randels, Cynthia A., Coulter, R.L.** “Automatic estimation of mixed layer height.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Randles, Cynthia A., Worsnop, D., Jayne, J., Davidovits, P.** “The aerosol mass spectrometer.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).

- Randles, Cynthia A.**, Chieffo, L., **Imre, D.**, **Zelenyuk, A.** “The single-particle laser ablation time-of-flight mass spectrometer (SPLAT-MS).” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Ravelo, Rose M.**, **Gaffney J.S.**, **Marley, N.A.**, Doskey, P.V. “Determining spectral measurements of solar irradiance using a multifilter rotating shadowband radiometer (MFRSR).” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Reed, Sarah E.**, Shaw, D., **Bond, B.** “Using pressure-volume analysis to determine the effect of the hydrostatic gradient on cell turgidity.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Riley, W.J., Randerson, J.T., **Fischer, M.L.**, Hsueh, D., **Hatch Joshua G.** “Relating the $\Delta^{14}\text{C}$ value of annual grasses to spatially and temporally distributed fossil fuel emissions in California. Annual Climate Change Meeting of the *California Energy Commission* (2005).
- Rios-Acosta, Lorena**, **Leakey, A.** “Soybean agroecosystem responses to future heatwaves.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Roddy, Adam B.**, **Wullschleger, S.** “Acclimation of stem respiration to increased temperatures: Implications of warming on tree survivability.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2003).
- Roddy, Adam B.**, **Wullschleger, S.** “Initiation and longation of maize primary roots under water stress.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).
- Roddy, Adam B.**, **Wullschleger, S.** “Growth biomechanics of water stressed and impeded maize roots: Rates, mechanical properties, and morphological patterns.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Roddy, Adam B.**, West, T., **Wullschleger, S.** “Wasting away: Food, feces, and flatulence in the U.S. carbon budget.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2005).
- Roddy, Adam B.**, **Wullschleger, S.D.** “Effects of low water potentials on the growth and structure of corn roots.” Oral Presentation at the Mid-Atlantic Chapter of *The Ecological Society of America* (2006).
- Rodriguez, Victor M.**, **Marley, N.A.**, **Gaffney, J.S.** “Measurements of black carbon in the Chicago urban area.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Rodriguez, Victor.**, **Gaffney, J.S.**, **Marley, N.A.** “Black carbon measurements made with an aethalometer in Chicago, Illinois.” Chemical Education, Undergraduate - Environmental Chemistry Poster Presentation at the National Meeting of the *American Chemical Society*, (2002).
- Rose, Aaron**, **Fischer, M.**, Tast, C., Menon, S., Singh, R. “Anthropogenic methane emissions across California.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Rummer, Christopher**, **Jenson, M.**, Clothiaux, E., Nese, J., Merritt, J. “Mid-level convective clouds observed during the ARM Mobile Facility (AMF) deployment in Niamey, Niger, Africa.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Salvatore, Jillian**, **Post, W.M.** “Enhancement of a global soil pedon database.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Sebastian A., West, T.O., **Roddy Adam B.**, **Marlend, G.**, Bhaduri, B.L. “Lateral flow of carbon from US agricultural lands: Carbon uptake, consumption, and respiration.” Poster Presentation at the Fall Meeting of the *American Geophysical Union* (2005).
- Schafer, Cynthia A.**, **Hinkley, T.** “The role and diversity of crusts in an alpine and sub-alpine ecosystem.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Schafer, Cynthia A.**, **Perlinger, J.A.** “Carbon dioxide and Lake Superior.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).

- Schiffer, Nicole J., Whiteman, D.** “Using HOBOS to study the vertical structure of cold pool events in the Salt Lake Valley.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Schnepf, Neesha R., Oestreicher, S., Wingate, B., Hecht, M., Peterson, M.** “Using Okubo-Weiss parameterization to analyze Arctic Ocean eddies.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Secora, Jaclyn M., Gahn, S., Bian, X., and Keefe, R.** “The impact of global warming on the Pacific Northwest.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Squirrel, Winona, Oechel, W., Hastings, S., Sheehan, G., Alvarez-Aviles, Laura** “Arctic biocomplexity on the forefront of global change.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Statura, Megan M., Hellman, J., Pelini, S., Dzurisin, J.** “The dependence of butterfly flight on temperature.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Steadham, Tiffany M., Miller, M.A.** “Determining cloud structure using wind profiler 449 MHz data.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Steadham, Tiffany M., Miller, M.A.** “Formulating a hydrologic cycle model for the Arkansas-Red Basin River by monitoring precipitation trends.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2001).
- Stuble, K.L., Rodriguez-Cabal, M.A., **McCormick, Gail L., Dunn, R.R., Sanders, N.J.** “Tradeoffs, competition, and coexistence in eastern deciduous forest and communities.” Poster Presentation at the *Society for the Study of Social Insects* (2010).
- Tackett, Michael J., Guilderson, T., Swanston, C.** “Applying carbon-14 AMS in the characterization of soil carbon dynamics within dolomitic utisol fractions at varying depths.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Tackett, Michael J., Gunawan, G., Marley, N.A., Gaffney, J.S.** “Measuring natural radioactivity in aerosols: Lead-210 and beryllium-7 as tracers for aerosol washout.” Poster Presentation at the National Meeting of the *American Chemical Society* (2008).
- Tackett, Michael J., Gaffney, J.S., Marley, N.A.** “Optical characterization of absorbing tropospheric aerosols on quartz filters using reflectance-based spectroscopy.” Poster Presentation at the Southwest Regional Meeting of the *American Chemical Society* (2008).
- Tackett, Michael J., Gaffney, J.S., Marley, N.A., Fischer, Emily V.** “Optical characterization of atmospheric aerosols on quartz filters using reflectance based spectroscopy.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Tran, Tri M., Ziemann, P.** “Measuring the kinetics of reactions between aldehydes and peroxides.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Turner, Alexander J., Fischer, M., Jeong, S., Muriki, K., Zhao, C.** “Methods of improving methane emission estimates in California using mesoscale and particle dispersion modeling.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2010).
- Turner, Alexander J., Jeong, S., Fischer, M.L.** “Methods of improving methane emission estimates in California using mesoscale and particle dispersion modeling.” Oral Presentation at the *Collaborative for Air Quality Research* (2010).
- Tyner, Marlene, Miller, R.M.** “Mycorrhizal colonization of four varieties of switchgrass.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2007).
- Tyner, Marlene, Miller, R.M., Bennett, A.** “The diversity of plant communities mediates mycorrhizal fungal diversity.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2008).
- Wade-Murphey, Jessica, Paw U, K., Falk, M.** “Albedo of an old growth coniferous forest.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).

- West, T.O., Singh, N., **Marland, G.**, Bhaduri, B.L., **Roddy, Adam B.** “The human carbon budget: Spatial distribution of carbon consumption and release in the United States.” Poster Presentation at the *NACP Investigators Meeting* (2007).
- Wheeler, Stephanie B., Goldstein, A.H., Shaw, S.** “Effects of moisture and temperature on VOC emissions from evergreen forest and oak savannah soils.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Wheeler, Stephanie B., Reisen, F., Arey, J.** “Ambient measurements in the south coast air basin of toxic PAHs and NO₂-PAHs.” Poster Presentation at the College of Charleston *Science and Math Research Symposium* (2003).
- Wheeler, Stephanie B., Reisen, F., Arey, J.** “Ambient measurements in the south coast air basin of toxic PAHs and NO₂-PAHs.” Oral Presentation at the *Southern Regional Honors Conference* (2003).
- Whiteman, D., McMeeking, Gavin R., Clements, Creg B., Powell, S.** “Evolution of the nocturnal atmospheric boundary layer over a Columbian basin vineyard.” Oral Presentation at the *Global Change Education Program End of Summer Workshop* (2001).
- Winiecki, Shelby E., Porph, W.M.** “Data quality improvement studies at the ARM Tropical Western Pacific site.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (1999).
- Winiecki, Shelby E., Porph, W.M.** “Naru island cloud trails”. [Poster Presentation](#) at the *Naru99 Workshop* (2000).
- Wofsy, Jonathan F., Whiteman, D.** “Vertical temperature profile analyses in Meteor Crater and Owens Valley.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Wooten, Catherine L., McIlmoil, Rory, Hinckley, T.** “Where’s the root? – A study of root distribution in douglas fir.” [Poster Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2000).
- Zachmann, Luke, Classen, A.** “From genes to ecosystems: Linking shifts in the genetic structure of plant populations to ecosystem processes.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2006).
- Zeledon, Ester B., Duffy, P.B., Iorio, John P.** “Survey of the uncertainties in regional climate simulations of California and environments.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2003).
- Zeledon, Ester B., Sternberg, L., Greaver, T.** “The role of ocean water in vadose hydrology of coastal dunes.” [Oral Presentation](#) at the *Global Change Education Program End of Summer Workshop* (2004).