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PROFESSIONAL INTERESTS

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Biosphere-atmosphere interactions, regional climate modeling, chemistry-climate interactions, atmospheric aerosols, and biogenic VOC emissions

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EDUCATION

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**Georgia Institute of Technology**, Atlanta, GA 2003  
Ph.D. in Atmospheric Science  
Title: The influence of atmospheric chemistry and climate on biosphere-atmosphere interactions  
Advisor: William L. Chameides

**Johns Hopkins University**, Baltimore, MD 1994  
B.S. in Chemical Engineering

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POSITIONS HELD

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**Professor** 2018-present  
University of Michigan, Ann Arbor, MI  
Department of Climate and Space Sciences and Engineering  
Dry appointment in the Department of Earth and Environmental Sciences

**Associate Professor** 2012-2018  
University of Michigan, Ann Arbor, MI  
Department of Climate and Space Sciences and Engineering  
Dry appointment in the Department of Earth and Environmental Sciences

**Assistant Professor** 2006-2012  
University of Michigan, Ann Arbor, MI  
Department of Atmospheric, Oceanic and Space Sciences  
Dry appointment in the Department of Earth and Environmental Sciences

**Postdoctoral Research Fellow** 2003-2006  
University of California, Berkeley, Berkeley, CA  
Department of Environmental Science, Policy and Management

**Visiting Scientist** August 2003  
Atmospheric Chemistry Division  
National Center for Atmospheric Research, Boulder, CO

**Visiting Scientist** May-Sept. 2001  
Physics of the Weather and Climate Group  
International Centre for Theoretical Physics, Trieste, Italy

**Visiting Scientist** May-August 2000  
International Institute for Applied Systems Analysis, Laxenburg, Austria

**Research Assistant** 1997–2003  
Georgia Institute of Technology, Atlanta, GA, School of Earth and Atmospheric Sciences

**Environmental and Air Quality Engineer** 1994–1996  
Sadat Associates, Inc., Princeton, NJ; Dames & Moore, Bethesda, MD

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HONORS AND AWARDS

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- University of Michigan Harold R. Johnson Diversity Service Award 2018
- American Geophysical Union Atmospheric Sciences Ascent Award 2015
- University of Michigan Henry Russel Award 2013
- Stanford University Blaustein Visiting Professor (declined) 2013
- University of Michigan AOSS Faculty Achievement Award 2011
- National Science Foundation CAREER Award 2010
- Early Career Award, Gordon Conference for Biogenic Hydrocarbons 2004
- Early Career Award, Gordon Conference for Atmospheric Chemistry (ACCESS) 2003
- NCAR Atmospheric Chemistry Division Fellowship 2003
- NASA Earth System Science Fellowship 2000–2003
- Senior Dean's Fellow Award, School of Earth & Atmospheric Sciences, Georgia Tech 2002
- Young Scientists' Summer Fellowship, IIASA 2000
- William B. Rhodes Graduate Fellowship, School of EAS, Georgia Tech 1999–2000

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PUBLICATIONS

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**Articles in Refereed Publications:** *Postdocs*, *Graduate Students*, *Undergraduate Students*

1. Zhu, P., S. J. Cheng, Z. Butterfield, G. Keppel–Aleks, and **A.L. Steiner**, The global influence of cloud optical thickness on terrestrial carbon uptake, *Earth Interactions*, submitted December 2017.
2. Wozniak, M.C., F. Solmon, and **A.L. Steiner**, Pollen rupture and its impact on precipitation in clean continental conditions, *Geophysical Research Letters*, 45, doi: 10.1029/2018GL077692, 2018.
3. Hui, X., D.B. Brown and **A.L. Steiner**, Sensitivity to climate change of land use and management patterns optimized for efficient mitigation of nutrient pollution, *Climatic Change*, <https://doi.org/10.1007/s10584-018-2159-5>, 2018.
4. Kawecki, S. and **A.L. Steiner**, The influence of hygroscopicity on precipitation during a mesoscale convective event, *Journal of Geophysical Research–Atmospheres*, 123, doi: 10.1002/2017JD026535, 2018.
5. Saleh, Z., A. Shalaby, **A.L. Steiner**, A.S. Zakey, R. Gautam and M.M. Abdel Wahab, Study of aerosol direct and indirect effects and auto–conversion processes over the West African Monsoon region using a regional climate model, *Advances in Atmospheric Sciences*, 35(2), 182–194, doi: 10.1007/s00376-017-7077-3, 2018.
6. Shokr, M., M. El–Tahan, A. Ibrahim, **A. Steiner** and N. Gad, Long–term, high–resolution survey of atmospheric aerosols over Egypt with NASA's MODIS data, *Remote Sensing*, 9, 10, doi:10.3390/rs9101027, 2017.
7. Jing, P., Z. Lu, and **A.L. Steiner**, The ozone–climate penalty in the Midwestern United States, *Atmospheric Environment*, 170, 130–142, doi:10.1016/j.atmosenv.2017.09.038, 2017.
8. Wozniak, M.C. and **A.L. Steiner**, A prognostic pollen emissions model for climate models

- (PECM1.0), *Geoscientific Model Development*, doi: 10.5194/gmd-2017-105, 2017.
9. Li, Y., M. C. Barth, E.G. Patton and **A.L. Steiner**, Impact of in-cloud aqueous processes on the chemistry and transport of biogenic volatile organic compounds, *Journal of Geophysical Research – Atmospheres*, 122, doi:10.1002/2017JD026688, 2017.
  10. Basile, S.J., S.A. Rauscher, and **A.L. Steiner**, Projected precipitation changes within the Great Lakes and Western Lake Erie Basin: A multi-model analysis of intensity and seasonality, *International Journal of Climatology*, doi:10.1002/joc.5128, 2017.
  11. Liu, S., B. Bond-Lamberty, L.R. Boysen, J.D. Ford, A. Fox, K. Gallo, J. Hatfield, G.M. Henebry, Z. Liu, T.R. Loveland, R.J. Norby, T. Sohl, **A. Steiner**, T.G. Huntington, W. Yuan, Z. Zhang and S. Zhao, Grand challenges in understanding the interplay of climate and land use changes, *Earth Interactions*, 21, 2, 1–43, doi:10.1175/EI-D-16-0012.1, 2017.
  12. Tsikerdekis, A., P. Zanis, **A.L. Steiner**, F. Solmon, V. Amiridis, E. Marinou, E. Katragkou, T. Karacostas, and G. Foret, Dust size parameterization in RegCM4: Impact on aerosol burden and radiative forcing, *Atmospheric Chemistry and Physics*, 17, 769–691, doi:10.5194/acp-2016-434, 2016.
  13. Ashworth, K., S.H. Chung, K.A. McKinney, Y. Liu, B.J. Munger, S.T. Martin and **A.L. Steiner**, Modeling bi-directional fluxes of methanol and acetaldehyde with the FORCAST canopy exchange model, *Atmospheric Chemistry and Physics*, doi: [10.5194/acp-2016-522](https://doi.org/10.5194/acp-2016-522), 2016.
  14. Kawecki, S., G.M. Henebry, and **A.L. Steiner**, Effects of urban plume aerosols on a mesoscale convective system, *Journal of Atmospheric Sciences*, 73, 4641–4660, doi: 10.1175/JAS-D-16-0084.1, 2016.
  15. Li, Y., M.C. Barth, G. Chen, E.G. Patton, S.-W. Kim, A. Wisthaler, T. Mikoviny, A. Fried, R. Clark and **A.L. Steiner**, Large-eddy simulation of biogenic VOC chemistry during the DISCOVER-AQ 2011 campaign, *JGR-Atmospheres*, 121, 8083–8105, doi:10.1002/2016JD024942, 2016.
  16. Cheng, S.J. **A.L. Steiner**, D.Y. Hollinger, G. Bohrer and K.J. Nadelhoffer, Using satellite-derived optical thickness to assess the influence of clouds on terrestrial carbon uptake, *JGR-Biogeosciences*, 121, doi:10.1002/2015JG003365, 2016.
  17. Adams, A.S., **A.L. Steiner** and C. Wiedinmyer, The Earth Sciences Women’s Network: Mentoring for women in the atmospheric sciences, *Bulletin of the American Meteorological Society*, 345–354, doi:10.1175/BAMS-D-15-00040.1, 2016.
  18. Gall, E.T., R.J. Griffin, **A. Steiner**, J.E. Dibb, E. Scheuer, L. Gong, A.P. Rutter, B.K. Cevik, S. Kim, B. Lefer, and J. Flynn, Evaluation of nitrous acid sources and sinks in urban outflow, *Atmospheric Environment*, 127, 272–282, doi:[10.1016/j.atmosenv.2015.12.044](https://doi.org/10.1016/j.atmosenv.2015.12.044), 2016.
  19. Rauscher, S.A., X. Jiang, **A. Steiner**, A.P. Williams, D.M. Cai and N.G. McDowell, Sea surface temperature warming patterns and future vegetation change, *Journal of Climate*, 28, 7943–7961, doi: <http://dx.doi.org/10.1175/JCLI-D-14-00528.1>, 2015.
  20. Ashworth, K., S.H. Chung, R.J. Griffin, J. Chen, R. Forkel, A.M. Bryan, and **A.L. Steiner**, FORest Canopy Atmosphere Transfer (FORCAST) 1.0: a 1-D model of biosphere-atmosphere chemical exchange, *Geoscientific Model Development*, 8, 3765–3784 doi:10.5194/gmd-8-3765-2015., 2015.
  21. Bryan, A.M., S.J. Cheng, K. Ashworth, A.B. Guenther, B.S. Hardiman, C.S. Vogel, G. Bohrer and **A.L. Steiner**, Forest-atmosphere BVOC exchange in diverse and structurally complex canopies: 1D modeling of a mid-successional forest in northern Michigan, *Atmospheric Environment*, 120, 217–

- 226, 10.1016/j.atmosenv.2015.08.094, 2015.
22. Pusede, S.E., **A.L. Steiner** and R.C. Cohen, Temperature and recent trends in the chemistry of continental surface ozone, *Chemical Reviews*, doi:10.1021/cr5006815, 2015.
23. **Steiner, A.L.**, S.D. Brooks, C. Deng, D.C.O. Thornton, M. Pendleton, and V. Bryant, Pollen as atmospheric cloud condensation nuclei, *Geophysical Research Letters*, 42, doi:10.1002/2015GL64060, 2015.
24. Bryan, A.M., **A.L. Steiner**, D.J. Posselt, Regional modeling of surface-atmosphere interactions and their impacts on Great Lakes hydroclimate, *Journal of Geophysical Research-Atmospheres*, 120, 1044-1064, doi:10.1002/2014JD022316, 2015.
25. Cheng, S.J., G. Bohrer, **A.L. Steiner**, D.Y. Hollinger, A. Suyker, R.P. Phillips and K.J. Nadelhoffer, Variations in the influence of diffuse light on gross primary productivity in temperate ecosystems, *Agricultural and Forest Meteorology*, 201, 98-110, DOI: 10.1016/j.agrformet.2014.11.002, 2015.
26. **Steiner, A.L.**, A.B. Tawfik, A. Shalaby, A.S. Zakey, M.M. Abdel Wahab, Z. Salah, F. Solmon, S. Sillman and R.A. Zaveri, Climatological simulations of ozone and atmospheric aerosols in the Greater Cairo region, *Climate Research*, 59, 207-228, doi:10.3354/cr01211, 2014.
27. Drewniak, B.A., P.K. Snyder, **A.L. Steiner**, T.E. Twine and D.J. Wuebbles, Simulated changes in biogenic VOC emissions and ozone formation from the habitat expansion of *Acer Rubrum* (red maple), *Environmental Research Letters*, 9, 1, 014006, doi:10.1088/1748-9326/1/014006, 2014.
28. Lofgren, B.M., A.D. Gronewold, A. Acciaioli, J. Cherry, **A. Steiner**, and D. Watkins, Methodological approaches to projecting the hydrologic impacts of climate change, *Earth Interactions*, 17, 22, 1-19, doi:10.1175/2013EI000532.1, 2013.
29. **Steiner, A.L.**, D. Mermelstein, S.J. Cheng, T.E. Twine and A. Oliphant, Observed impact of atmospheric aerosols on the surface energy budget, *Earth Interactions*, 17, 14, 1-22, doi: 10.1175/2013EI000523.1, 2013.
30. Michalak, A.M., E. Anderson, D. Beletsky, S. Boland, N.S. Bosch, T.B. Bridgeman, J.D. Chaffin, K.H. Cho, R. Confesor, I. Daloglu, J. DePinto, M.-A. Evans, G.L. Fahnenstiel, L. He, J.C. Ho, L. Jenkins, T. Johengen, K.C. Kuo, E. Laporte, X. Liu, M. McWilliams, M.R. Moore, D.J. Posselt, R.P. Richards, D. Scavia, **A.L. Steiner**, E. Verhamme, D.M. Wright and M.A. Zagorski, Record-setting algal bloom in Lake Erie caused by agricultural and meteorological trends consistent with expected future conditions, *Proceedings of the National Academy of Sciences USA*, 110, 16, 6448-6452, doi: 10.1073/pnas.1216006110, 2013.
31. Tawfik, A.B. and **A.L. Steiner**, A physical mechanism for explaining ozone-meteorology correlations using land-atmosphere coupling regimes, *Atmospheric Environment*, 72, 50-59, 2013.
32. Jiang, X., S.A. Rauscher, T.D. Ringler, D.M. Lawrence, A.P. Williams, C.D. Allen, **A. Steiner**, D.M. Cai and N.G. McDowell, Projected future changes in vegetation in western North America in the 21<sup>st</sup> century, *Journal of Climate*, doi:10.1175/JCLI-D-12-0043.1, 2013.
33. Wright, D.M., D. Posselt, and **A.L. Steiner**, Sensitivity of lake-effect snowfall to lake ice cover and temperature in the Great Lakes region, *Monthly Weather Review*, 141,2, 670-689, 2013.
34. Pratt, K.A., L.H. Mielke, P.B. Shepson, A.M. Bryan, **A.L. Steiner**, J. Ortega, R. Daly, D. Helmig, C.S. Vogel, S. Griffith, S. Dusanter, P.S. Stevens and M. Alaghmand, Contributions of individual reactive biogenic volatile organic compounds to organic nitrates above a mixed forest, *Atmos. Chem. Phys.*, 12, 10125-10143, 2012.

35. Bryan, A.M., S.B. Bertman, M.A. Carroll, S. Dusanter, G.D. Edwards, R. Forkel, S. Griffith, A.B. Guenther, R.F. Hansen, D. Helmig, B.T. Jobson, F.N. Keutsch, B.L. Lefer, S.N. Pressley, P.B. Shepson, P.S. Stevens, and **A.L. Steiner**, In-canopy gas-phase chemistry during CABINEX 2009: Sensitivity of a 1D canopy model to vertical mixing and isoprene chemistry, *Atmos. Chem. Phys.*, 12, 8829–8849, 2012.
36. Fiore, A.M., V. Naik, D.V. Spracklen, **A. Steiner**, N. Unger, M. Prather, D. Bergmann, P.J. Cameron-Smith, I. Cionni, W.J. Collins, S. Dalsoren, V. Eyring, G.A. Folberth, P. Ginoux, L.W. Horowitz, B. Josse, J.-F. Lamarque, I.A. MacKenzie, T. Nagashima, F. O'Connor, M. Righi, S.T. Rumbold, D.T. Shindell, R.B. Skeie, K. Sudo, S. Szopa, T. Takemura and G. Zeng, Global air quality and climate, *Chemical Society Reviews*, 41, 6663–6683, doi: 10.1039/C2CS35095E, 2012.
37. Shalaby, A.K., A.S. Zakey, A.B. Tawfik, F. Solmon, F. Giorgi, F. Stordal, S. Sillman, R.A. Zaveri and **A.L. Steiner**, Implementation and evaluation of online gas-phase chemistry within a regional climate model (RegCM-CHEM4), *Geoscientific Model Development*, 5, 741–760, 2012.
38. Tawfik, A.B., R. Stockli, S.N. Pressley, A.H. Goldstein and **A.L. Steiner**, Quantifying the contribution of environmental variables on isoprene flux interannual variability, *Atmospheric Environment*, 54, 216–224, doi:10.1016/j.atmosenv.2012.02.018, 2012.
39. Giorgi, F., E. Coppola, F. Solmon, L. Mariotti, M. Sylla, X. Bi, N. Elguindi, G.T. Diro, V. Nair, G. Giuliani, S. Cozzini, I. Guettler, T.O'Brien, A. Tawfik, A. Shalaby, A.S. Zakey, **A. Steiner**, F. Stordal, L. Sloan and C. Brankovic. RegCM4: Model description and preliminary tests over multiple CORDEX domains, *Climate Research*, 52, 7–29, doi:10.3354/cr01018, 2012.
40. *Owen, R.C.* and **A.L. Steiner**. Effect of emissions inventory versus climate model resolution on radiative forcing and precipitation over the continental United States, *JGR-Atmospheres*, 117, D05210, doi:10.1029/2011JD016096, 2012.
41. **Steiner, A.L.**, S.N. Pressley, A. Botros, E. Jones, S.H. Chung and S.L. Edburg, Analysis of coherent structures during the CABINEX field campaign: Implications for atmospheric chemistry, *Atmos. Chem. Phys.*, 11, 21013–21054, 2011.
42. Tawfik, A.B. and **A.L. Steiner**. The role of soil ice in land-atmosphere coupling over the United States: A soil moisture-precipitation winter feedback mechanism, *JGR-Atmospheres*, 116, D02113, doi: 10.1029/2010JD014333, 2011.
43. **Steiner, A.L.**, A.J. Davis, S. Sillman, *R.C. Owen*, A.M. Michalak and A.M. Fiore. Observed suppression of ozone formation at extremely high temperatures due to chemical and biophysical feedbacks, *Proceedings of the National Academy of Sciences*, 107, 46, 19685–19690, doi:10.1073/pnas.1008336107, 2010.
44. Cook, B.I., A. Terando, and **A. Steiner**, Ecological forecasting under climatic data uncertainty: A case study in phenological modeling, *Environmental Research Letters*, 5, 044014, doi:10.1088/1748-9326/5/4/044014, 2010.
45. Weaver, C.P. , X.-Z. Liang, P.J. Adams, P. Amar, J. Avise, M. Caughey, J. Chen, R.C. Cohen, E. Cooter, J.P. Dawson, R. Gilliam, A. Gilliland, A.H. Goldstein, A. Gramsch, A. Guenther, R.A. Harley, S. He, B. Hemming, C. Hogrefe, H.-C. Huang, S. Hunt, D. Jacob, P. Kinney, K. Kunkel, J.-F. Lamarque, B. Lamb, N. Larkin, L.R. Leung, K.-J. Liao, J. Lin, B.H. Lynn, K. Manomaiphiboon, C. Mass, D. McKenzie, L. Mickley, S. O'Neil, C. Nolte, S.N. Pandis , P.N. Racherla, C. Rosenzweig, A.G. Russell, E. Salathe , **A.L. Steiner**, E. Tagaris, Z. Tao, C. Wiedinmyer, A. Williams, D. Winner, J.-H. Woo , S. Wu, D.J. Wuebble, J. Zhu. A preliminary synthesis of modeled climate change impacts on US regional ozone concentrations, *Bulletin of the American Meteorological Society*, 90, 12, 1843–1863, doi: 10.1175/2009BAMS2568.1, 2009.

46. **Steiner, A.L.**, J.S. Pal, S.A. Rauscher, J.L. Bell, N.S. Diffenbaugh, A. Boone, L.C. Sloan and F. Giorgi. Land surface coupling in regional climate simulations of the West African monsoon, *Climate Dynamics*, 33, 6, 869–892, doi: 10.1007/s00382-009-0543-6, 2009.
47. **Steiner, Allison L.**, R.C. Cohen, R.A. Harley, S. Tonse, D.B. Millet, G.W. Schade and A.H. Goldstein. VOC reactivity in central California: Comparing an air quality model to ground-based measurements, *Atmospheric Chemistry and Physics*, 8, 351–368, 2008.
48. Pal, J.S., F. Giorgi, X. Bi, N. Elguindi, F. Solmon, X. Gao, R. Francisco, A. Zakey, J. Winter, M. Ashfaq, F.S. Syed, J.L. Bell, N.S. Diffenbaugh, J. Karmacharya, A. Konare, D. Martinez, R.P. da Rocha, L. C. Sloan and **A.L. Steiner**. Regional climate modeling for the developing world: The ICTP RegCM3 and RegCNET, *Bulletin of the American Meteorological Society*, 88, 9, 1395–1409, 2007.
49. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A. Harley. Biogenic 2-methyl-3-buten-2-ol increases regional ozone and HO<sub>x</sub> sources, *Geophysical Research Letters*, 34, L15806, doi:10.1029/2007GL030802, 2007.
50. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A. Harley. Influence of future climate and emissions on regional air quality in California, *Journal of Geophysical Research – Atmospheres* 111, D18303, doi: 10.1029/2005JD006935, 2006.
51. **Steiner, Allison L.** and W.L. Chameides. Aerosol-induced thermal effects increase modeled terrestrial photosynthesis and transpiration. *Tellus*, 57B, 404–411, 2005.
52. **Steiner, Allison L.**, J. Pal, F. Giorgi, R.E. Dickinson and W.L. Chameides. Coupling of the Common Land Model (CLM0) to a regional climate model (RegCM). *Theoretical and Applied Climatology*, 82, 3–4, 225–243, 2005.
53. **Steiner, Allison**, Luo Chao, Yan Huang and W.L. Chameides. Past and present-day biogenic volatile organic compound emissions in East Asia, *Atmospheric Environment*, 36, 31, 4895–4905, 2002.
54. Chameides, W.L., H. Yu, S.C. Liu, M. Bergin, X. Zhou, L. Mearns, G. Wang, C.S. Kiang, R. D. Saylor, C. Luo, Y. Huang, **A. Steiner** and F. Giorgi. Case study of the effects of atmospheric aerosols and regional haze on agriculture: An opportunity to enhance crop yields in China through emission controls? *Proceedings of the National Academy of Sciences*, 26, 13626–13633, 1999.

#### Other Articles:

1. Rosenzweig, B., C. Vorosmarty, W. Gutowski and **A.L. Steiner**, Joining scientists and stakeholders in regional Earth system modeling, *Eos*, 95, 27, 247–248, doi: 10.1002/2014EO270005, 2014.
2. Bryan, A.M. and **A.L. Steiner**, Canopy controls on the forest-atmosphere exchange of biogenic ozone and aerosol precursors, *Michigan Journal of Sustainability*, 1, doi 10.3998/12.0001.005, 2013.
3. Giorgi, F., N.S. Diffenbaugh, X.J. Gao, E. Coppola, S.K. Dash, O. Frumento, S.A. Rauscher, A. Remedio, I. Seidou Sanda, **A. Steiner**, B. Sylla and A.S. Zakey, The Regional Climate Change Hyper-Matrix Framework, *Eos*, 89(45), 445–446, 2008.

#### Book Chapters:

1. Wiedinmyer, C., Steiner, A., Ashworth, K.: Plant Influences on Atmospheric Chemistry. In: The Plant Sciences – Ecology and the Environment, Ed. R. Monson, Springer Reference ([www.springerreference.com](http://www.springerreference.com)), Springer-Verlag, Berlin, Heidelberg, 2013.
2. **Steiner, Allison L.** and Allen H. Goldstein. Biogenic volatile organic compounds, in *Volatile Organic Compounds in the Atmosphere*, ed. Ralf Kopppmann, Blackwell Publishing, Ltd, p. 82–128, 2007.

#### Books:

1. Barker, J.R., **A.L. Steiner** and T.J. Wallington (eds.), *Advances in Atmospheric Chemistry, Volume 1*, World Scientific Publishing, 2017.

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### PROFESSIONAL SERVICE

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#### Committees

- Member, Scientific Steering Committee, GEIA (Global Emissions Inventory Activity), 2017–present
- Member, National Academy of Sciences Board on Atmospheric Sciences and Climate, 2016–present
- Member, American Meteorological Society Board on Atmospheric Biogeosciences, 2015–present
- Member, Scientific Steering Committee, iLEAPS (Integrated Land–Ecosystem–Atmosphere Process Study), 2015–present
- Member, UCAR President's Advisory Committee on University Relations, 2015–2018
- Member, National Research Council, *The Future of Atmospheric Chemistry Research* report, 2015–6

#### Editorial and Reviewing

- Editor, *Journal of Geophysical Research–Atmospheres*, 2014–present
- Guest Editor, *Proceedings of the National Academy of Sciences USA*, 2017
- Member, NCAR Proposal Review Committee, 2016–2018
- Manuscript Reviewer: *Atmospheric Chemistry and Physics*, *Atmospheric Environment*, *Biogeosciences*, *Climatic Change*, *Climate Dynamics*, *Earth Interactions*, *Environmental Science and Technology*, *Geophysical Research Letters*, *Journal of Applied Meteorology and Climate*, *Journal of Biogeography*, *Journal of Geophysical Research–Atmospheres*, *Journal of Hydrometeorology*, *Monthly Weather Review*, *Nature*, *Nature Climate Change*, *New Phytologist*, *Proceedings of the National Academy of Sciences USA*, *Tellus B*
- Proposal Reviewer for: National Science Foundation (NSF), Environmental Protection Agency (EPA), National Aeronautics and Space Administration (NASA), Department of Energy (DOE) Biological and Environmental Research (BER) Program, Natural Environment Research Council (NERC; UK), US Civilian Research and Development Foundation (CRDF), USAID PEER program
- Reviewer for the National Research Council (NRC)

#### Conferences

- Co–chair, Telluride Science Research Center Workshop, New Insights into Gas–Phase Atmospheric Chemistry, 2018
- Session convener, American Geophysical Union Fall Meeting, “Biosphere–atmosphere interactions,” 2017
- Co–organizer, National Science Foundation sponsored workshop on “Long term measurements of biosphere–atmosphere chemical interactions,” Irvine, CA, 13–14 November 2017
- Chair, Gordon Conference on Biogenic Hydrocarbons and the Atmosphere, 2014
- Session convener, Fall 2012 American Geophysical Union, “Regional–scale Earth System Modeling to Support Policy Making
- Workshop co–organizer, NOAA Great Lakes Environmental Research Laboratory workshop, “Projecting the Hydrologic Impacts of Climate Change,” 27–29 August 2012

- Session convener, Fall 2008 American Geophysical Union, “Regional Scale Forcing of Climate”

#### **Other**

- Member, American Geophysical Union Atmospheric Sciences Section Awards Committee, 2017–2018
- Co-Founder and Board Member, Earth Sciences Women’s Network (ESWN) – a peer-mentoring organization for the support and retention of women in the Earth Sciences, 2008–2014
- American Meteorological Society Meeting, moderator of the Women in Science panel, January 2013
- Member, American Geophysical Union, 1998–present

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### UNIVERSITY SERVICE

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#### **University of Michigan Department Service:**

- Departmental Diversity Ally, 2016–present
- Member, CLaSP Alumni & Friends Committee, 2014–present
- Member, CLaSP Executive Committee, 2008–2010 and 2014–2017
- Member, AOSS Faculty Search Committee, 2012–2013
- Member, AOSS Awards Committee, 2011–2013
- Michigan Geophysical Union Judge, March 2011
- Member, AOSS Strategic Plan Committee, Spring 2008
- Commencement Marshall, Spring 2008
- Member, AOSS Qualifying Exam Committee, Winter 2007

#### **University of Michigan College of Engineering Service:**

- Member, Center for Research on Learning and Teaching Engineering (CRLT–Engin) Advisory Committee, January 2018–present
- Co-organizer, College of Engineering Leadership Salon, 2014–present
- Chair, Dean’s Advisory Committee on Female Faculty (DACFF), 2015–2018
- Member, College of Engineering ADVANCE Advisory Committee, 2013–2018
- Co-Chair, NextProf Committee, 2017
- Member, College of Engineering NextProf Program Committee, 2016–2018
- Member, Review Committee for CoE Dow Sustainability Fellowships, 2016
- Member, College of Engineering Leadership Workshop for Female Faculty, 2014–2015
- Member of the Dean’s Advisory Committee on Female Faculty (DACFF), 2013–2015
- Member, College of Engineering Diversity Panel, May 2012
- Member, AOSS Chair Search Committee, 2010–2011
- Member, College of Engineering Nominating Committee, 2010–2011

#### **University of Michigan University Service:**

- Member, Museum of Natural History Faculty Science Advisory Committee, 2016–present
- Member, Graham Sustainability Institute Water Center Science Council, 2016–present
- Faculty Advisor, M–ESWN Community Building Program, 2016–present
- Member, Wallenberg Fellowship Proposal Selection Committee, 2015–present
- Member, Rackham Merit Fellow Award Review Committee, 2015–2017
- Member, Committee on Environment and Sustainability Programs, 2016

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### TEACHING EXPERIENCE

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#### **University of Michigan:**

- CLIMATE 105: Our Changing Atmosphere (W2015, W2017)  
3 credit undergraduate course for non-science majors



- AOSS/GEO 320: Earth System Evolution (F2007, F2009, F2010, F2012)  
4 credit undergraduate introductory Earth System Science course
- AOSS 422: Boundary Layer Meteorology (W2007, W2008, W2009, W2010, F2011)  
4 credit graduate and upper-level undergraduate course including flux tower field project
- CLIMATE 479: Atmospheric Chemistry (F2015, F2016, F2017)  
3 credit graduate course in atmospheric chemistry
- CLIMATE 588: Regional Scale Climate: Downscaling Techniques and Applications (W2011, W2012, F2013, W2016, W2018)  
4 credit graduate level course with climate model data analysis laboratory
- ENG 255/355/455: College of Engineering Multidisciplinary Design Project (MDP)  
Great Lakes Simulation Team  
W2015, F2016, W2016, F2016  
Engineering project teams running WRF and WRF-Chem to understand the Great Lakes Region
- AOSS 747: Graduate student seminar (F2014)  
Proposal writing for graduate students: Resulted in submission of 4 NSF and 2 NESSF proposals

**Georgia Institute of Technology:**

- Teaching Assistant, Introduction to Environmental Science (EAS 1600) Spring 2000
- Lecturer and Data Analysis Assistant, Remote Sensing and Data Analysis (EAS 4430) Spring 2000

**Other:**

- Guest Lecturer, Introduction to Chemical and Biomolecular Engineering  
Johns Hopkins University, "From Chemical Engineering to Climate Change" 2003–2005
- Outreach activities
  - Dixon Educational Learning Academy, Detroit, MI (grades 7–8) 2010–2016
  - Ypsilanti New Tech High School, Ypsilanti, MI (grades 10–11) 2013
  - Ann Arbor Public Schools, Ann Arbor, MI (grade 1) 2015
  - MESTA Earth Science Career Day, Oakland County Public Schools 2016
  - Saline High School, presentation to AP Chemistry classes 2017

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STUDENTS SUPERVISED

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**Chair or Co-Chair of Doctoral Committee:**

- Ahmed Tawfik, Atmospheric, Oceanic and Space Sciences (AOSS), Doctoral committee chair, Ph.D. 4/2012: currently at Voith Digital Solutions, Raleigh, North Carolina
- Alexander Bryan, AOSS, Doctoral committee chair, Ph.D. 8/2014: currently Postdoctoral Fellow at UMass Amherst
- Susan Cheng, Ph.D. candidate, Ecology and Evolutionary Biology, Doctoral committee co-chair, Ph.D., 5/2016: currently Postdoctoral fellow at Cornell University
- Stacey Kawecky, Ph.D. candidate, CLaSP, Doctoral committee chair, Ph.D, 5/2017: currently postdoctoral fellow at Colorado State University
- Yang Li, Ph.D. candidate, CLaSP, Doctoral committee chair, Ph.D., 5/2017: currently postdoctoral fellow at Harvard University
- Matthew Wozniak, Ph.D. candidate, CLaSP, Doctoral committee chair, Ph.D. expected 5/2019
- Annareli Morales, Ph.D. candidate, CLaSP, Doctoral committee chair, Ph.D. expected 5/2019

#### **Doctoral Committees:**

- Lynn Gratz, Atmospheric, Oceanic and Space Sciences, University of Michigan, Ph.D. 4/2010
- Nadja Insel, Geological Sciences, University of Michigan, Ph.D. 12/2010
- Alex Lechler, Geological Sciences, University of Michigan, Ph.D. 4/2011
- Ahmed Shalaby, Department of Meteorology, Cairo University, Ph.D. 10/2012
- Maira Louise Jeffrey, Earth and Environmental Sciences, University of Michigan, Ph.D. 12/2012
- Yuxing Yun, Atmospheric Oceanic and Space Sciences, University of Michigan, Ph.D. 12/2012
- Evan Oswald, Atmospheric Oceanic and Space Sciences, University of Michigan, Ph.D. 8/2013
- Lingli He, Civil and Environmental Engineering, University of Michigan, Ph.D. 5/2014
- Hui Xu, School of Natural Resources and the Environment, University of Michigan, Ph.D. 6/2016
- David Wright, Climate and Space Sciences and Engineering, University of Michigan, Ph.D. 8/2016
- Nicole Olson, School of Public Health, University of Michigan, Ph.D. expected 4/2020

#### **Masters Students Supervised:**

- Timothy Grunert, Atmospheric Oceanic and Space Sciences Master's Student, 2011
- Kevin Kuo, Atmospheric Oceanic and Space Sciences Master's Student, 2012
- Melissa Zagorski, Atmospheric Oceanic and Space Sciences Master's Student, 2012
- Dori Mermelstein, Atmospheric Oceanic and Space Sciences Master's Student, 2014
- Samantha Basile, Atmospheric Oceanic and Space Sciences Masters of Engineering Student, 2015
- Alicia Revazzo, Civil and Environmental Engineering Master's Student, 2017

#### **Undergraduate Students Supervised (Years in Group):**

- Adam Davis, Atmospheric, Oceanic and Space Sciences B.S. 2010 (2008–2010)
- Jennifer DeHart, Atmospheric, Oceanic and Space Sciences B.S. 2010 (2009–2010)
- Sydney Chiu, Atmospheric, Oceanic and Space Sciences B.S. 2010 (2009–2010; 2009 SURE)
- Abraham Botros, University of California Los Angeles, REU Student (Summer 2010)
- Jingyi Bao, Atmospheric, Oceanic and Space Sciences B.S. 2012 (2011 SURE)
- Joy Cripe, Western Illinois University, REU Student (Summer 2011)
- Morgan McCabe, New University, REU Student (Summer 2012)
- Dori Mermelstein, Atmospheric, Oceanic and Space Sciences, B.S. 2013 (2010–2013)
- Barbara Doyle, Atmospheric, Oceanic and Space Sciences B.S. 2015 (2013–2014)
- Jordan Swift, Atmospheric, Oceanic and Space Sciences B.S. 2015 (2014–2015; 2014 SURE)
- Samuel Pennypacker, University of California Berkeley, REU Student (Summer 2014)
- Kimberly Channel, Atmospheric, Oceanic and Space Sciences B.S. 2016 (2015–2016; 2015 SURE)
- Peiyun Zhu, Earth and Environmental Sciences, B.S. 2017 (2015–2017)
- Karlie Wells, Climate and Space Sciences and Engineering, anticipated B.S. 2019 (2017 SURE)
- Sarah Hutchinson, Climate and Space Sciences and Engineering, anticipated B.S. 2020 (2018 SURE)

#### **International Students Supervised:**

- Hayley McIntosh, Visiting student University of Cape Town, South Africa (Fall 2008)
- Ahmed Shalaby, Ph.D. student and committee member, Cairo University, Egypt (2011–2013)
- Zeinab Salah, Ph.D. student and committee member, Cairo University, Egypt (2013–2014)
- Cristina Davila Arriga, Visiting Ph.D. student, University of Sao Paulo, Brazil (Summer 2014)
- Athanasios Tsikerdekis, Visiting Ph.D. student, Aristotle University of Thessaloniki, Greece (2015)
- Sarah Kavassalis, Visiting Ph.D. student, University of Toronto, Canada (Sept–Dec 2016)
- Vladimir Ivanov, Visiting Ph.D. student, National Institute of Geophysics, Geodesy and Geography of Bulgarian Academy of Sciences (2017)
- Serafeim Kontos, Visiting Ph.D. student, Aristotle University of Thessaloniki, Greece (2017)

#### **Postdoctoral Fellows Supervised:**

- R. Christopher Owen, 2009–2010; now at EPA Research Triangle Park

- Kirsti Ashworth, 2013–2016; now a Royal Society Dorothy Hodgkin Research Fellow, Lancaster, UK
- Thiago dos Santos, 2017–present

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INVITED PRESENTATIONS AND SEMINARS

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### 2018

- Synthesizing measurements of BVOC and oxidation in the forest canopy, Telluride Conference, New Insights into Gas Phase Atmospheric Chemistry, Telluride, CO, 23 July 2018.
- Ecosystem fluxes and connections to biogeochemical cycles, Discussion Leader, Gordon Research Conference on Biogenic Hydrocarbons and the Atmosphere, Les Diablerets, Switzerland, 12 June 2018.
- Aerosol–cloud interactions: A focus on aerosol composition, NOAA Geophysical Fluid Dynamics Laboratory, Princeton, NJ, 3 May 2018.
- The atmospheric life cycle of pollen, NOAA ESRL Chemical Sciences Division, Boulder, CO, 18 April 2018.
- The atmospheric life cycle of pollen, Department of Earth and Planetary Sciences, University of New Mexico, Albuquerque, NM, 23 March 2018.
- The atmospheric life cycle of pollen, Department of Chemical and Environmental Engineering, University of California, Riverside CA, 2 February 2018.
- The atmospheric life cycle of pollen, Department of Environmental Science and Engineering, California Institute of Technology, Pasadena, CA, 31 January 2018.

### 2017

- Biogenic emissions and interactions with the boundary layer, Workshop on the Future of Boundary Layer Observing, Warrenton, VA, 24 October 2017.
- The atmospheric life cycle of pollen: From plant to grain to particle, Gordon Research Conference on Atmospheric Chemistry, Sunday River, ME, 31 July 2017.
- Precipitation in the Great Lakes region: Understanding physics and the role of climate change, Department of Geography, Western Michigan University, Kalamazoo, MI, 13 March 2017.
- Modeling atmospheric chemistry across scales: From the forest canopy to the regional scale, University of Toronto Centre for Global Change Science Distinguished Lecturer Series, Toronto, Canada, 31 January 2017.
- The atmospheric moisture budget over the Great lakes: Implications for precipitation, Department of Geography, Environment and Spatial Sciences, Michigan State University, Lansing, MI, 20 January 2017.

### 2016

- Modeling atmospheric chemistry across scales: From the forest canopy to the regional scale, Earth, Planetary and Space Sciences Institute seminar, Michigan Technological University, Houghton, MI, 24 October 2016.
- Cross-scale understanding of the VOC–NO<sub>x</sub>–HO<sub>x</sub> balance, Telluride Conference on Atmospheric Chemistry, 22 July 2016.

### 2015

- Fluxes at the canopy interface: Synthesizing across the canopy, boundary layer and regional scales, Abstract B41I-06 presented at the Fall American Geophysical Union, 17 December 2015.
- Local to regional scale modeling: Scaling up ecosystem emissions, LEAP workshop, Pacific Northwest National Laboratory, 9 March 2015.

### 2014

- The climatic relevance of pollen in the atmosphere, Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, 20 October 2014.
- Forest canopies and isoprene chemistry, Telluride Conference on Atmospheric Chemistry, 29 July 2014.

## 2013

- Regional-scale aerosol-climate feedbacks of anthropogenic and biogenic aerosols, Lamont-Doherty Earth Observatory, 20 September 2013.
- The surface forcing of atmospheric aerosols: From local observations to regional circulation, Jackson School of Geosciences, University of Texas at Austin, 7 May 2013.
- The surface forcing of atmospheric aerosols: From local observations to regional circulation, Atmospheric Sciences Department, Texas A&M University, 16 April 2013.
- The surface forcing of atmospheric aerosols: From local observations to regional circulation, Environmental Earth System Sciences Department, Stanford University, 3 April 2013.
- The surface forcing of atmospheric aerosols: From local observations to regional circulation, Berkeley Atmospheric Sciences Center, University of California, Berkeley, 2 April 2013.
- The surface forcing of atmospheric aerosols: From local observations to regional circulation, Environmental Science and Engineering, Harvard University, 22 February 2013.

## 2012

- Moving molecules from the surface layer to the atmosphere: BVOC exchange at the atmosphere-forest interface, Abstract B44C-06 presented at 2012 Fall Meeting, American Geophysical Union, 6 December 2012.
- BVOC exchange at the atmosphere-forest interface: Adding canopy complexity from the local to regional scale, International Global Atmospheric Chemistry conference, Beijing, China, 21 September 2012.
- The forest canopy and the BVOC-NO<sub>x</sub>-HO<sub>x</sub> balance, Telluride Science Conference on New Insights into Gas-Phase Atmospheric Chemistry, 31 July 2012.
- The end-of-day isoprene peak: Concentrations, canopy mixing and implications for modeling, Gordon Research Conference on Biogenic Hydrocarbons and the Atmosphere, Bates College, Maine, 26 June 2012.
- Atmospheric chemistry in RegCM4: Chemistry-climate interactions over Egypt and the Nile River Basin, 6<sup>th</sup> ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy 7 May 2012.

## 2011

- Chemistry-climate feedbacks on Egypt and the Nile River Basin: Present day simulations, Chemistry-climate interactions and regional climate workshop, Cairo University, 15 November 2011.
- Climate implications for Egypt and the Nile Basin: RegCM Model Development, Chemistry-climate interactions and regional climate workshop, Cairo University, 14 November 2011.
- Regional climate and atmospheric aerosols: The effect of resolution on climate forcing and chemistry-climate interactions, University of Wisconsin, Atmospheric and Oceanic Sciences Seminar, 25 October 2011.
- Phenological modeling of pollen for modern climate studies, University of Wisconsin, Climate, People and the Environment Program seminar, 24 October 2011.
- Ice at the lower boundary: Cold-season processes and regional climate in northern midlatitudes, Department of Land, Air and Water Resources, University of California-Davis, 4 October 2011.
- Short-lived climate forcings and scale-dependent processes, Los Alamos National Laboratory workshop on Global to Regional Climate Simulations, 4 August 2011.
- Biosphere-atmosphere feedbacks: The role of vegetation temperature in atmospheric chemistry, University of Michigan, Ecology and Evolutionary Biology seminar, 12 April 2011.
- Chemistry-climate interactions: Resolution-dependent processes and the role of the biosphere. University of Michigan Department of Atmospheric, Oceanic and Space Sciences seminar, 17 March 2011.
- Biospheric controls on atmospheric chemistry: Re-exploring the relationship between ozone and isoprene, School of Public and Environmental Affairs, Indiana University, 17 February 2011.
- High resolution chemistry-climate simulations: A focus on scale-dependent processes, NASA Goddard Space Flight Center, AeroCenter seminar series, 8 February 2011.

## 2010

- Observed suppression of ozone formation under extremely high temperatures, Abstract A43D-02 presented at 2010 Fall Meeting, American Geophysical Union, 13-17 December 2010.
- Scaling biogenic VOC emissions from canopy to region: One-dimensional modeling and the influence of leaf temperature, Abstract A53C-0217, presented at 2010 Fall Meeting, American Geophysical Union, 13-17 December 2010.
- Ozone formation under high temperature extremes, Telluride Conference on Atmospheric Chemistry, Telluride, CO, 16 August 2010.
- Chemistry-climate interactions over the continental US, Fifth workshop on the Theory and Use of Regional Climate Models, International Centre for Theoretical Physics, Trieste, Italy, June 2010.
- Biosphere-atmosphere interactions: Controls on regional climate and atmospheric chemistry, Penn State University, Department of Meteorology, March 2010.
- Biosphere-atmosphere interactions: Controls on regional climate, Central Michigan University, Department of Geology and Meteorology, March 2010.
- Biosphere-atmosphere interactions: Controls on regional climate and atmospheric chemistry, Geophysical Fluid Dynamics Laboratory, February 2010.

## 2009

- The role of the terrestrial biosphere in atmospheric chemistry and climate, American Chemical Society National Meeting, Washington DC, August 2009.

## 2008

- RegCM3-CLM3: Land surface modeling in RegCM and impact on aerosols, Workshop on Aerosol-Climate Interactions, Hurghada, Egypt, February 2008.
- Biogenic VOC emissions modeling: Implications for aerosol formation, Workshop on Aerosol-Climate Interactions, Hurghada, Egypt, February 2008.
- Atmospheric chemistry and climate change: The role of volatile organic compounds (VOC) in central California, Department of Chemistry, Kent State University, January 2008.

## 2007

- Atmospheric chemistry and climate change: The role of volatile organic compounds (VOC) in central California, Department of Geosciences, University of Houston, November 2007.
- Atmospheric chemistry and climate change: The role of volatile organic compounds (VOC) in central California, Department of Chemistry, Western Michigan University, October 2007.
- Understanding and modeling VOC in the atmosphere: A case study in central California, AOSS, University of Michigan, April 2007.

## 2006 and earlier

- The influence of the biosphere on chemistry-climate interactions, Department of Atmospheric, Oceanic and Space Sciences, University of Michigan, March 2006.
- The influence of climate change and future emissions on regional air quality in California, NASA Goddard Space Flight Center, February 2006.
- The influence of climate change on regional air quality in California, Lawrence Livermore National Laboratory, Livermore, CA, November 2005.
- The influence of climate change on regional air quality in California, NASA Ames Research Center, Moffett Field, CA, November 2005.
- Impact of climate change on air quality in California, Berkeley Atmospheric Sciences Center seminar series, University of California, Berkeley, CA, September 2005.
- Aerosol induced thermal effects increase modeled terrestrial photosynthesis and transpiration, ACCESS VII Colloquium, 2003.
- Coupling of the Common Land Model (CLM0) to a regional climate model and aerosol-climate interactions, Workshop on the Theory and Use of Regional Climate Models, International Centre for Theoretical Physics, Trieste, Italy, 2003.
- The effects of biogenic VOC emissions in East Asia, Workshop on the Transport of Air Pollutants in Asia, International Institute for Applied Systems Analysis, Laxenburg, Austria, September 2000.

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CONTRIBUTED PRESENTATIONS

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1. Wozniak, M.C., **A. Steiner**, and G. Keppel-Aleks, The influence of vegetation canopy structure on the drives of gross primary production NCAR Community Earth System Modeling Workshop, 20 June 2018.
2. Wells, K., A.L. Steiner, Historical multi-model analysis of solid precipitation in the Great Lakes region, Poster S27, Student Poster Session, American Meteorological Society 2018 Annual Meeting, 14 January 2018.
3. Wozniak, M.C., **A. Steiner**, A.P. Ault, E.A. Kort, T. Lersch, G. Casuccio, Lidar measurements of boundary layer depolarization and CCSEM-EDX compositional analysis of airborne particles on collocated passive samplers throughout the forest canopy during the 2016 airborne pollen season at UMBS, Pellston, MI, Abstract A21K-2304, presented at the Fall American Geophysical Meeting, 12 December 2017.
4. Mann, T., M.M. Lynam, J.T. Dvonch, S. Kawecki, C. Xi and **A. Steiner**, Atmospheric deposition of phosphorous across the Great Lakes region, MCubed Symposium, Ann Arbor, MI, 1 November 2017.
5. Wozniak, M.C., **A.L. Steiner**, Simulation of pollen grain rupture and impact of subpollen particles on the aerosol indirect effect, UM Engineering Graduate Symposium, Ann Arbor, MI, 10 November 2017.
6. Wells, K., A.L. Steiner, Historical multi-model analysis of solid precipitation in the Great Lakes region, poster presentation at the Midwest Student Climate Conference, Urbana-Champaign, IL, October 2017.
7. Kawecki, S., **A.L. Steiner** and H. Morrison, Dust as ice nuclei: Implications on a mesoscale convective event in the Central Great Plains, Ninth Symposium on Aerosol-Cloud-Climate Connections, American Meteorological Society 2017 Annual Meeting, 26 January 2017.
8. Bukowski, J., L.E. Fitzpatrick, S. Kawecki, Y. Li, **A. Steiner**, D.J. Posselt and K. Richardville, Modeled sensitivity of tropospheric ozone to PBL height in the Great Lakes region, Abstract S24 presented at the Student Poster Session of the American Meteorological Society 2017 Annual Meeting, 22 January 2017.
9. **Steiner, A.L.**, O.C. Gates and D.J. Posselt, The atmospheric moisture budget over the Great lakes: Comparing reanalysis and CMIP5 present-day simulations, Abstract NG41B-1736, presented at the Fall American Geophysical Meeting, 15 December 2016.
10. Li, Y., Barth, M.C. and **A.L. Steiner**, Comparing turbulent mixing of biogenic VOC across model scales, Abstract A41C-0042 presented at the Fall American Geophysical Meeting, 15 December 2016.
11. Wozniak, M.C. and **A.L. Steiner**, A 10-year climatology of pollen aerosol for the continental United States: Implications for aerosol-climate interactions, Abstract A13H-0388, presented at the Fall American Geophysical Meeting, 12 December 2016.
12. Kavassalis, S., **A.L. Steiner**, J.G. Murphy, S. Bertman and P. Stevens, One-dimensional canopy modeling of biogenic VOC during the 2016 PROPHET AMOS campaign, Abstract 043E-0276 presented at the Fall American Geophysical Meeting, 15 December 2016.
13. Cheng, S.J., P. Zhu, G. Keppel-Aleks, Z. Butterfield, **A.L. Steiner**, The global influence of cloud optical thickness on terrestrial carbon uptake, Abstract B52B-02, presented at the Fall American Geophysical Meeting, 16 December 2016.
14. **Steiner, A.L.**, K. Ashworth, S. Chung, J. Chen and R.J. Griffin, Chemical mechanisms in the forest canopy: Understanding the HO<sub>x</sub>-NO<sub>x</sub>-BVOC triad, presented at the International Global Atmospheric Chemistry meeting, Breckenridge, CO, 29 September 2016.
15. Ashworth, K., **A.L. Steiner**, S.H. Chung, K.A. McKinney, Y. Liu, W.J. Munger, Stomatal regulation of oxygenated VOC emissions at the ecosystem scale, poster presented at the Gordon Conference on Biogenic Hydrocarbons and the Atmosphere, 26-30 June 2016, Barcelona, Spain.
16. P. Zhu, S.J. Cheng, G. Keppel-Aleks, **A.L. Steiner**, The global influence of cloud optical thickness on terrestrial carbon uptake, presented at the Michigan Geophysical Meeting, Ann Arbor, MI, 7 April 2016.
17. Kawecki, S. and **A.L. Steiner**, Investigating the impacts that aerosol composition has on a mesoscale convective system, presented at the Michigan Geophysical Meeting, Ann Arbor, MI, 7 April 2016.

18. Bukowski, J., L. Fitzpatrick, S. Kawecki, Y. Li, **A. Steiner**, and D. J. Posselt, 2014: The Sensitivity of Surface Ozone Concentrations to Anthropogenic NO<sub>x</sub> Emissions in the Great Lakes Region. Michigan Geophysical Union 13th Research Symposium, Ann Arbor, MI, 7 April 2016.
19. Kawecki, S., **A. Steiner** and G.M. Henebry, Investigating the impacts of aerosol composition on a mesoscale convective system in the Central Great Plains, Abstract 4A.4 presented at the Eighth Symposium on Aerosol–Cloud–Climate Interactions, American Meteorological Society Annual Meeting, 12 January 2016.
20. Ashworth, K.A., **A. L. Steiner**, S. Chung, K. McKinney, J. Munger and Y. Liu, FORCAsTing the influence of a forest canopy on the bi–directional exchange of gases and aerosols, Abstract A11T–07 presented at the Fall American Geophysical Union, 14 December 2015.
21. Wozniak, M., **A.L. Steiner**, Y. Li, and F. Solmon, Transport and radiative impacts of atmospheric pollen using online, observation–based emissions, Abstract A23F–0398 presented at the Fall American Geophysical Union, 15 December 2015.
22. Adams, A., **A.L. Steiner** and C. Wiedinmyer, The Earth Science Women's Network: The principles that guide our mentoring, Abstract ED13D–0902 presented at the Fall American Geophysical Union, 16 December 2015.
23. Tsikerdekis, A., P. Zanis, **A. Steiner**, F. Solmon, V. Amiridis, E. Marinou, E. Katragkou, T. Karacostas, G. Foret, Dust size parameterization in RegCM4: Impact of aerosol burden and radiative forcing, Abstract A33L–0357 presented at the Fall American Geophysical Union, 16 December 2015.
24. Kawecki, S., **A. L. Steiner**, and G. Henebry, Effects of urban plume aerosols on a mesoscale convective system, Conference on Meteorology and Climate Modeling for Air Quality, Sacramento, CA, 17 September 2015.
25. **Steiner, A.L.**, Y. Li and M. Wozniak, The climatic relevance of pollen in the atmosphere, Gordon Research Conference on Atmospheric Chemistry, Waterville Valley, NH, 2–7 August 2015.
26. Li, Y., M. Barth, G. Chen and **A. Steiner**, Large–eddy simulation of atmospheric chemistry during the DISCOVER–AQ 2011 campaign. 16<sup>th</sup> Annual WRF Users Workshop, Boulder, CO, 17 June 2015.
27. Li, Y., M. Barth, G. Chen and **A. Steiner**, Large–eddy simulation of atmospheric chemistry during the DISCOVER–AQ 2011 campaign, DISCOVER–AQ Science Team meeting, Boulder, CO, 5–8 May 2015.
28. Kawecki, S., **A. Steiner**, D. Stensrud, L. Reames and G. Henebry, Investigating the impacts of dust and anthropogenic emission on indirect aerosol effects in convective clouds in the Southern Great Plains, presented at the American Meteorological Society Winter Meeting, Phoenix, AZ, 7 January 2015.
29. Pennypacker, S. and A.L. Steiner, Meteorological variability and the observed aerosol first indirect effect over the Southern Great Plains, presented at the American Meteorological Society Winter Meeting Student Conference, Phoenix, AZ, 4 January 2015.
30. Basile, S.J., A.M Bryan, D. Brown and A.L. Steiner, Projected precipitation changes within the Great Lakes region: A multi–scale analysis of precipitation intensity and seasonality, presented at the American Meteorological Society Winter Meeting, Phoenix, AZ, 7 January 2015.
31. Bryan, A.M., A.L. Steiner, and D.J. Posselt, Regional modeling of surface–atmosphere interactions and their impact on Great Lakes hydroclimate, Abstract H13C–1129 presented at the Fall American Geophysical Union, San Francisco, CA, 15 December 2014.
32. Basile, S.J., A.M Bryan, D. Brown and A.L. Steiner, Projected precipitation changes within the Great Lakes region: A multi–scale analysis of precipitation intensity and seasonality, Abstract GC33A–0479 presented at the Fall American Geophysical Union, San Francisco CA, 17 December 2014.
33. Cheng, S., G. Bohrer, **A.L. Steiner**, D.Y. Hollinger, A. Suyker, R.P. Phillips and K.J. Nadelhoffer, S.J., Influence of cloud optical thickness on surface diffuse light and carbon uptake in forests, Abstract B41C–0047 presented at the Fall American Geophysical Union, San Francisco, CA, 18 December 2014.
34. Kawecki, S., **A. Steiner**, D. Stensrud, L. Reames and G. Henebry, Investigating the impacts emissions have on indirect aerosol effects in convective clouds in the southern Great Plains, UM Engineering graduate symposium, Ann Arbor MI, October 2014.
35. Li, Y. and A.L. Steiner, Investigating key BVOC vertical distributions and oxidation in atmospheric boundary layer in 2011 DISCOVER–AQ campaign, UM Engineering Graduate Symposium, Ann Arbor MI, October 2014.
36. Song, Z., W.S. Currie, A. Agrawal, **A. Steiner**. 2014. Dynamics of rural community forest use and labor migration in developing countries. MCubed Symposium. Ann Arbor, MI, October 2014.

37. **Steiner, A.L.**, M. Wozniak, S. Kawecki and M.A. Zagorski, A phenological model of pollen emissions for climate models, International Congress of Biometeorology, Cleveland, OH, 29 September 2014.
38. **Steiner, A.L.** and **S.J. Basile**, Precipitation projections for the western Lake Erie basin, NOAA COCA workshops, 4–6 August 2014.
39. **Li, Y.** and **A.L. Steiner**, Investigating the vertical profiles of isoprene and its oxidation products in 2011 DISCOVER–AQ campaign, Gordon Conference on Biogenic Hydrocarbons and the Atmosphere, Girona, Spain, 28 June 2014.
40. **Ashworth, K.**, **A.L. Steiner**, S.H. Chung and K.A. McKinney, What role do in–canopy processes play in governing bi–directional fluxes of oxygenated volatile organic compounds (VOCs)?, Gordon Conference on Biogenic Hydrocarbons and the Atmosphere, Girona, Spain, 28 June 2014.
41. **A. Steiner**, **A.M. Bryan**, **S.J. Basile**, Working across the boundary: Regional climate model applications, Adaptation in the Great Lakes Region, Ann Arbor, MI, 25 June 2014.
42. **Ashworth, K.**, **A.L. Steiner**, S.H. Chung and K.A. McKinney, What role do in–canopy processes play in governing bi–directional fluxes of oxygenated volatile organic compounds (VOCs)?, iLEAPS Science Conference, Nanjing China, 14 May 2014.
43. Ganzeveld, L. et al. (including **K. Ashworth** and **A.L. Steiner**), CANEXMIP, a new iLEAPS–GEIA initiative: Intercomparison of models to simulate atmosphere–biosphere exchange of reactive compounds and aerosols, iLEAPS Science Conference, Nanjing China, 12 May 2014.
44. **Kawecki, S.**, **A. Steiner**, D. Stensrud, L. Reames and G. Henebry, The impact of pollution state on the direct and indirect aerosol effects on convective events in the Southern Great Plains, WRF Users Meeting, Boulder, CO, June 2014.
45. **Bryan, A.M.**, D. J. Posselt and **A.L. Steiner**, Surface–atmosphere interactions and their impacts on Great Lakes hydroclimate, presented at the Michigan Geophysical Union, Ann Arbor, MI, April 2014.
46. **Kawecki, S.**, **A. Steiner**, D. Stensrud, L. Reames and G. Henebry, The role of pollution state on urban heat islands in the Midwestern United States, presented at the Michigan Geophysical Union, Ann Arbor, MI, April 2014.
47. **Li, Y.**, Allison Steiner and Fabien Solmon, Investigating the direct climatic forcing of pollen and subpollen particles, Abstract A11B–0020, presented at 2013 Fall Meeting, American Geophysical Union.
48. **Cheng, Susan J.**, Gil Bohrer, **Allison L. Steiner**, Knute J. Nadelhoffer and Alexander Fotis: The Impact of Diffuse Light on Terrestrial Carbon Uptake, Abstract B21A–0439, presented at 2013 Fall Meeting, American Geophysical Union.
49. **Bryan, A.M.**, Guiling Wang, Derek J. Posselt and **Allison L. Steiner**: Synoptic and Local Controls on Precipitation Patterns in the Great Lakes Region, Abstract A33E–0264, presented at 2013 Fall Meeting, American Geophysical Union.
50. Hastings, M.G, Rose Kontak, Manda S. Adams, Rebecca T. Barnes, Emily V. Fischer, Mirjam S. Glessmer, Tracey Holloway, Erika Marin–Spiotta, Carmen Rodrigez, **Allison L. Steiner**, Christine Wiedinmyer and Sandra L. Larsen, The Earth Science Women's Network (ESWN): A member–driven network approach to supporting women in the Geosciences, , Abstract ED51C–0621, presented at 2013 Fall Meeting, American Geophysical Union.
51. **Kawecki, S.**, Allison L. Steiner, David J. Stensrud, Larissa Reames, Geoffrey M. Henebry. The role of pollution state on urban heat islands in the Midwestern United States, Abstract GC53A–1033, presented at 2013 Fall Meeting, American Geophysical Union.
52. **B. Doyle**, **K.Kuo**, D.J. Posselt and **A.L. Steiner**: Atmospheric water budget over the Great Lakes region and the effects of climate change, Student Poster S91, American Meteorological Society 2013 Annual Meeting, Austin TX, 6 January 2013.
53. **Mermelstein, D.**, **A.L. Steiner**, **S.J. Cheng**, T.E. Twine and A. Oliphant: Observed impact of atmospheric aerosols on the surface energy budget, Student Poster S115, American Meteorological Society 2013 Annual Meeting, Austin TX, 6 January 2013.
54. Lingli He, **A.L. Steiner** and V.Y. Ivanov: Evaluating surface variables simulated by NARCCAP over the Great Lakes region an implications of climate change, Poster 102, American Meteorological Society 2013 Annual Meeting, Austin TX, 7 January 2013.
55. Wright, D.M., D.J. Posselt and **A.L. Steiner**: Sensitivity of lake–effect snowfall to lake ice cover and temperature in the Great Lakes region, Poster 133, American Meteorological Society 2013 Annual Meeting, Austin TX, 8 January 2013.



56. Henebry, G., D.J. Stensrud, **A.L. Steiner**, C. Samll, L.R. Musacchio and K.M. de Beurs: Probing the effects of city size, shape and pollution state on storm behavior: Prospectus for a new NASA Project, Presentation 4.4, American Meteorological Society 2013 Annual Meeting, Austin TX 9 January 2013.
57. Steiner, A.L. and R.C. Owen, The effect of direct anthropogenic aerosol forcing on the Great Plains Low Level Jet, Presentation 9.4, American Meteorological Society 2013 Annual Meeting, Austin TX, 10 January 2013.
58. Kontak, R., Amanda S. Adams; Agatha M. De Boer; Meredith G. Hastings; Tracey Holloway; Erika Marin-Spiotta; **Allison L. Steiner**; Christine Wiedinmyer, Online and in-person networking among women in the Earth Sciences Women's Network at [www.ESWNonline.org](http://www.ESWNonline.org), Abstract PA-31B-1983 presented at 2012 Fall Meeting, American Geophysical Union, 5 December 2012.
59. Solmon, F., A. Shalaby, **Ahmed B. Tawfik**; **Allison L. Steiner**; Graziano Giuliani; Filippo Giorgi, Chemistry Climate Interactions Studies within the Regional Climate Model RegCM4.3. Abstract A41I-0107 presented at 2012 Fall Meeting, American Geophysical Union, 6 December 2012
60. Bryan, A.M., S. Bertman, B. Hardiman, C. Vogel, P. Curtis, and **A.L. Steiner**, How will forest succession affect BVOC chemistry in a northern Michigan forest? Presented at the Gordon Research Conference on Biogenic Hydrocarbons and the Atmosphere, Bates College Maine, 24 July 2012.
61. Wright, David, Derek Posselt and **Allison Steiner**, Sensitivity of lake-effect snowfall to lake ice cover and temperature in the Great Lakes region, 13th Annual WRF Users' Workshop, Boulder, CO, 27 June 2012.
62. Doyle, Barbara, Kevin Kuo and **Allison Steiner**, Precipitation in the Great Lakes region and the effects of climate change, poster presentation at the University of Michigan Undergraduate Research Opportunity Program (UROP) poster session, 30 July 2012.
63. Zakey, A.S., A.K. Shalaby, F. Solmon, F. Giorgi, A.B. Tawfik, **A.L. Steiner** and A. Baklanov, New development of the online integrated climate-chemistry model framework (RegCM-CHEM4), European Geophysical Union, Abstract EGU2012-9984, Vienna Austria, 27 April 2012.
64. Wright, David, Derek Posselt and Allison Steiner, Sensitivity of lake-effect snowfall to lake ice cover and temperature in the Great Lakes region, poster presentation at the Michigan Geophysical Union, 13 April 2012. Won third place in the AOSS poster competition.
65. Tawfik, A.B., **A.L. Steiner**, A. Shalapy, A. Zakey and F. Solmon, Understanding the modeled ground-level ozone bias over the Southeastern U.S., Abstract A13K-08 presented at the 2011 Fall Meeting, American Geophysical Union, 5-9 December 2011.
66. Pratt, K.A., L.H. Mielke, J. H. Slade, P.B. Shepson, H.O. Pye, A.M. Bryan, **A.L. Steiner**, J. Ortega, D. Helmig, S.M. Griffith, S. Dusanter, P.S. Stevens, Contributions of individual biogenic VOC precursors to SOA production above a mixed forest, Abstract A13C-0326 presented at the 2011 Fall Meeting, American Geophysical Union, 5-9 December 2011.
67. Cheng, S.J., **A.L. Steiner**, K. Nadelhoffer, G. Bohrer, P. Curtis, Effects of cloud optical thickness on net ecosystem exchange in a Northern US temperature site, Abstract B23A-0386 presented at the 2011 Fall Meeting, American Geophysical Union, 5-9 December 2011.
68. Wright, D.M., D.J. Posselt, **A.L. Steiner**, Sensitivity of lake-enhanced snowfall to lake ice cover in the Great Lakes region, Abstract GC23C-0959 presented at the 2011 Fall Meeting, American Geophysical Union, 5-9 December 2011.
69. Hastings, M., R. Kontak, T. Holloway, M. Kogen, S.L. Laursen, E. Marin-Spiotta, **A.L. Steiner**, and C. Wiedinmyer, Facilitating career advancement for women in the Geosciences through the Earth Science Women's Network (ESWN), Abstract ED21E-05 presented at the 2011 Fall Meeting, American Geophysical Union, 5-9 December 2011.
70. Tawfik, A.B., **A.L. Steiner**, A. Shalaby, A. Zakey, Why to regional climate-chemistry models overestimate ground-level ozone in the southeastern U.S., Michigan Engineering Graduate Symposium, 11 November 2011. (Tawfik selected as AOSS candidate for the CoE Richard and Eleanor Towner Prize).

71. M.A. Zagorski and **A.L. Steiner**, Where aeropalynology and climatology meet: The impact of pollen on climate, Michigan Engineering Graduate Symposium, 11 November 2011.
72. A.M. Bryan, **A.L. Steiner**, A. Guenther and the CABINEX team, Vertical profiles of HO<sub>x</sub> chemistry within a mixed hardwood forest during the 2009 CABINEX field campaign, Michigan Engineering Graduate Symposium, 11 November 2011.
73. **Steiner, A.L.**, A.B. Tawfik, A. Zakey, A. Shalapy, S. Sillman, R. Zaveri, F. Solmon and F. Giorgi, Regional-scale interannual ozone variability: The role of soil moisture stress, Gordon Conference on Atmospheric Chemistry, Mount Snow Vermont, July 2011.
74. Mermelstein, D. and **A.L. Steiner**, The impact of atmospheric aerosols on the surface energy budget, Undergraduate Research Opportunity Program (UROP) symposium, University of Michigan, 20 April 2011.
75. Pressley, S.N., **A.L. Steiner**, S.H. Chung, S.L. Edburg, E. Jones, A. Botros, Analysis of coherent structures during the 2009 CABINEX field campaign: Implications for atmospheric chemistry, *91<sup>st</sup> American Meteorological Society Meeting*, Seattle, WA, 2011.
76. Pressley, S.N., **A.L. Steiner**, S.H. Chung, S.L. Edburg, E. Jones, A. Botros, Analysis of coherent structures during the 2009 CABINEX field campaign: Implications for atmospheric chemistry, Abstract A51G-07 presented at 2010 Fall Meeting, American Geophysical Union, 13-17 December, 2010.
77. Bryan, A.M., **A.L. Steiner**, A.B. Guenther, J.J. Orlando, G.S. Tyndall, S.H. Chung, S.B. Bertman, M. Carroll, S. Dusanter, M.H. Erickson, M.M. Galloway, S.M. Griffith, R.F. Hansen, B.T. Jobson, F.N. Keutsch, S. Kim, B.L. Lefer, A. O'Brien, P.B. Shepson, P.S. Stevens, M.E. Thurlow, W. Wallace and X. Zhou, Vertical profiles of HO<sub>x</sub> chemistry within a mixed hardwood forest during the 2009 CABINEX field campaign: Evaluations with a one-dimensional canopy-chemistry model, Abstract A53C-0242 presented at 2010 Fall Meeting, American Geophysical Union, 13-17 December, 2010.
78. Tawfik, A.B., A. Shalapy, **A.L. Steiner** and A. Zakey, Soil moisture controls on interannual variability of biogenic isoprene emissions and ozone, Abstract A53C-0230 presented at 2010 Fall Meeting, American Geophysical Union, 13-17 December, 2010.
79. Pratt, K.A., L.H. Mielke, P.B. Shepson, A.M. Bryan, **A.L. Steiner**, and D. Helmig, Contributions of individual biogenic volatile organic compounds to secondary organic aerosol and organic nitrate formation above a mixed forest, Abstract A52A-06 presented at 2010 Fall Meeting, American Geophysical Union, 13-17 December, 2010.
80. Hastings, M.G., R. Kontak, T. Halloway, E. Marin-Spiotta, **A. L. Steiner**, C. Wiedinmyer, A.S. Adams, A.M. De Boer, A.C. Staudt and A.M. Fiore, Networking skills as a career development practice: Lessons from the Earth Sciences Women's Network, Abstract ED13A-0599, presented at 2010 Fall Meeting, American Geophysical Union, 13-17 December, 2010.
81. Tawfik, A.B., A. Shalapy, **A.L. Steiner** and A. Zakey, Soil moisture controls on interannual variability of biogenic isoprene emissions and ozone, poster presented at the University of Michigan Engineering Research Symposium, November 2010.
82. Bryan, A.M., **A.L. Steiner**, A.B. Guenther, J.J. Orlando, G.S. Tyndall, S.H. Chung, S.B. Bertman, M. Carroll, S. Dusanter, M.H. Erickson, M.M. Galloway, S.M. Griffith, R.F. Hansen, B.T. Jobson, F.N. Keutsch, S. Kim, B.L. Lefer, A. O'Brien, P.B. Shepson, P.S. Stevens, M.E. Thurlow, W. Wallace and X. Zhou, Vertical profiles of HO<sub>x</sub> chemistry within a mixed hardwood forest during the 2009 CABINEX field campaign: Evaluations with a one-dimensional canopy-chemistry model, poster presented at the University of Michigan Engineering Research Symposium, November 2010.
83. **Steiner, A.L.**, *R.C. Owen*, and D. Mermelstein, Integration of satellite-derived aerosol optical thickness with ground-based measurements and regional climate models, Michigan Space Grant Consortium, November 2010.
84. Tawfik, A. and **A.L. Steiner**, Soil moisture controls in the interannual variability of biogenic isoprene emissions, Gordon Conference on Biogenic Hydrocarbons and the Atmosphere, Les Diablerets, Switzerland, May 2010.

85. Tawfik, A. and A.L. Steiner, Seasonal variations in land–atmosphere coupling strength in the continental US, Michigan Geophysical Union, Ann Arbor, MI, April 2010. **Poster won the AOSS first prize in the MGU competition.**
86. Davis, A.J., R.C. Owen, S. Sillman and A.L. Steiner, Reduction in surface ozone concentrations under ultra–high temperatures in central California, American Meteorological Society Annual Student meeting, Atlanta, GA, January 2010.
87. Tawfik, A. and A.L. Steiner, Seasonal variations in land–atmosphere coupling strength in the continental US, *EOS Trans. AGU*, 89(52), Fall Meet. Suppl., Abstract, A33A–0212, 2009.
88. A.L. Steiner, and CABINEX team, In–canopy modeling of biogenic VOC emissions and multiphase chemistry, Global Emissions Inventory Activity (GEIA) meeting, Oslo, Norway, October 2009.
89. Tawfik, A. and A.L. Steiner, Land surface and biogenic volatile organic compound (VOC) emissions modeling in a regional climate model (RegCM), Michigan Geophysical Union, Ann Arbor, MI, March 2009.
90. Davis, A.J., S. Sillman and A.L. Steiner, Ozone temperature relationships in Central California, Michigan Geophysical Union, Ann Arbor, MI, March 2009.
91. Moberg, C.C., T. Holloway, D.J. Vimont, **A. Steiner** and S. Spak, The impact of ENSO on surface ozone concentrations over California, *EOS Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract A21A–0110, 2008.
92. **Steiner, Allison L.**, J.S. Pal, J.L. Bell, N.S. Diffenbaugh, S.A. Rauscher, F. Giorgi and L.C. Sloan, Land surface coupling in regional climate simulations of tropical monsoon systems, Fourth ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, 2008.
93. **Steiner, Allison L.**, J.S. Pal, J.L. Bell, N.S. Diffenbaugh, S.A. Rauscher, F. Giorgi and L.C. Sloan, Land surface coupling in regional climate simulations of tropical monsoon systems, *EOS Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract GC23B–06, 2007.
94. Holloway, T.A., **A. Steiner**, A. Fiore, M. Hastings, G. McKinley, A. Staudt and C. Wiedinmyer, The Benefits of Peer–to–Peer Mentoring: Lessons from The Earth Science Women's Network (ESWN), *EOS Trans. AGU*, 88(52), Fall Meeting Suppl., Abstract ED11B–0474, 2007.
95. **Steiner, Allison L.**, R.C. Cohen, R.A. Harley, S. Tonse and A.H. Goldstein, VOC reactivity in central California: Comparing an air quality model to ground–based measurements, Gordon Research Conference on Atmospheric Chemistry, Big Sky, MT, 2007.
96. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A Harley, Biogenic 2–methyl–3–buten–2–ol increases regional ozone and HO<sub>x</sub> sources, Gordon Research Conference on Biogenic Hydrocarbons and the Atmosphere, Ventura, CA, 2007.
97. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A Harley, Oxygenated volatile organic compounds dominate reactivity in central California, *EOS Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract A11A–0821, 2006.
98. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A Harley, Future Climate Alters VOC Reactivity and Potential Ozone Control Strategies in Central California, California Climate Change Research Conference, Sacramento, CA, 2006.
99. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A Harley, Future Climate Alters VOC Reactivity and Potential Ozone Control Strategies in Central California, Berkeley Atmospheric Science Symposium, Berkeley, CA, 2006.
100. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A Harley, The influence of climate change on regional air quality in California, *American Meteorological Society Eighth Conference on Atmospheric Chemistry*, Atlanta, GA, 2006.
101. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A Harley, The influence of climate change on biogenic VOCs and regional air quality in California, *First Integrated Land Ecosystem–Atmosphere Processes Study (iLEAPS) Science Conference*, Boulder, CO, 2006.
102. Jin, L., S. Tonse, N.J. Brown, **A.L. Steiner**, R. Harley, J.M. Willczak, J. Bao and S.A. Michelson, A seasonal modeling study of air quality in central California, *EOS Trans. AGU*, 86(5), Fall Meet. Suppl., Abstract A11B–0863, 2005.

103. Tonse, S.R., N.J. Brown, R.A. Harley and **A. Steiner**, Process analysis study of weekend-weekday differences of ozone calculated with the CMAQ air quality model, *EOS Trans. AGU*, 86(5), Fall Meet. Suppl., Abstract A34A-06, 2005.
104. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A. Harley, The influence of climate change on biogenic VOCs and regional air quality in California, *EOS Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract A32A-02, 2005.
105. **Steiner, Allison L.**, S. Tonse, R.C. Cohen, A.H. Goldstein, and R.A. Harley, The influence of climate change on air quality in California, California Climate Change Research Conference, Sacramento, CA, 2005.
106. **Steiner, Allison**, R. Harley, S. Tonse, R. Cohen and A.H. Goldstein, Developing a regional climate scenario for air quality simulations in California, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract A53B-0896, 2004.
107. **Steiner, Allison**, M.M. Lunden, L. Misson, G. Shade and A.H. Goldstein. Can atmospheric aerosols influence MBO emissions in the Sierra Nevada?, Gordon Conference on Biogenic Hydrocarbons and the Atmosphere, Il Ciocco, Italy, 2004.
108. **Steiner, Allison** and W.L. Chameides. Aerosol induced thermal effects increase modeled terrestrial photosynthesis and transpiration, Gordon Conference on Atmospheric Chemistry, Big Sky, MT, 2003.
109. **Steiner, Allison** and W.L. Chameides. Scaling a process-based isoprene emissions model to a regional level, Gordon Conference on Biogenic Hydrocarbons and the Atmosphere, Oxford, UK, 2002.
110. **Steiner, Allison** and W.L. Chameides, Can climate policy influence biogenic VOC emissions?, *Eos. Trans. AGU*, 83, Spring Meet. Suppl., Abstract A42C-03, 2002.
111. **Steiner, Allison** and Filippo Giorgi. The coupling of the Common Land Model (CLM) to a regional climate model, *Eos. Trans. AGU*, 82, Fall Meet. Suppl., Abstract B42A-11, 2001.
112. **Steiner, A.L.**, Luo Chao, Yan Huang, R.D. Saylor, W.L. Chameides. The effects of land cover change on biogenic VOC emissions in China, *Eos. Trans. AGU*, 80, Suppl., Abstract A12A-11, 1999.