Curriculum Vitae

Elizabeth A. Stone

Professor
Department of Chemistry
Department of Chemical and Biochemical Engineering
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EDUCATION AND PROFESSIONAL HISTORY

Education

2005-2009	Ph.D. awarded in 2009 University of Wisconsin-Madison, Madison, WI 53706 Program: Environmental Chemistry and Technology, College of Engineering Thesis: *Source Apportionment of Carbonaceous Aerosol in Different Regions of the World* Advisor: Professor James J. Schauer
2001-2005	B.A. awarded in 2005 Grinnell College, Grinnell, IA 50112 Majors: Chemistry (with honors), French (with honors) Advisors: Professors James G. Lindberg and Elaine Marzluff

Professional Appointments

2021-present	Professor, Department of Chemistry, University of Iowa, Iowa City, Iowa 52242
2021-present	Professor, Department of Chemical and Biochemical Engineering, University of Iowa, Iowa City, Iowa 52242
2016-2021	Associate Professor, Department of Chemistry, University of Iowa, Iowa City, Iowa 52242
2017-2021	Associate Professor, Department of Chemical and Biochemical Engineering, University of Iowa, Iowa City, Iowa 52242
2010-2016	Assistant Professor, Department of Chemistry, University of Iowa, Iowa City, Iowa 52242

2009-2010 Senior Scientist, Environmental and Organic Chemistry Departments, Carlsbad Environmental Monitoring and Research Center, New Mexico State University, Carlsbad, NM 88220

Honors and Awards

Distinguished Iowa Scientist Award, Iowa Academy of Science (2021)
Collegiate Scholar, College of Liberal Arts and Sciences, University of Iowa (2021-2022)
Department of Chemistry Research Scholar Award (2020-2021)
Distinguished Mentor Award, Iowa Center for Research by Undergraduates (2020)
University of Iowa, College of Engineering, Capture your Research! Image Competition – Second Place, Faculty/Researcher/Staff Division (2020)
American Association of Aerosol Research, Fine Particle Art Competition (2020), 1st and 3rd place (shared with Chamari Mampage, Dagen Hughes, Lillian Hones)
James Van Allen Natural Sciences Fellowship (2018-2019)
University of Iowa Career Development Award (2017-2018)
College of Liberal Arts and Sciences Outstanding Outreach and Public Engagement Award (2017)
Oliven Lecturer, Kirkwood Community College (2017)
Iowa Ideas Conference Scholar (2017)
Outstanding Reviewer, *Atmospheric Environment*, Elsevier Publishing (2017)
University of Iowa Early Career Scholar of the Year (2015)
Corridor Business Journal Forty Under 40 Honoree (2015)
Environmental Health Sciences Research Center Career Development Award (2012-2014)
Environmental Science: Processes & Impacts Emerging Investigator (2014)
American Chemical Society Younger Chemists Committee Leadership Development Workshop (invited participant; 2014)
Atmospheric Composition and the Asian Summer Monsoon (ACAM), Kathmandu, Nepal (invited participant; 2013)
First Annual Regional Atmospheric Science Workshop, Kathmandu, Nepal (invited participant 2013)
Excellence in Reviewing, *Atmospheric Environment*, Elsevier Publishing (2012)
Transform, Interact, Learn Engage (TILE) Institute Faculty Fellow, Center for Teaching, University of Iowa (2011)
University of Iowa, International Programs Travel Grant (2010)
East Asia and Pacific Summer Institutes Fellow, National Science Foundation (2009)
Honors in Chemistry, Grinnell College (2005)
Honors in French, Grinnell College (2005)
Phi Beta Kappa Society (inducted 2005)
Smith Family Prize in Chemistry, Grinnell College (2004)
State of Iowa Scholar (2001-2004)
Lando Scholar, University of Minnesota (2004)
Mortar Board, National Honor Society (2004)
Erasmus Scholar, Leiden University (2003)

Memberships

American Chemical Society (ACS), Division of Environmental Chemistry (2009-present)
Center for Global and Regional Environmental Research (CGRER; 2010-present)
Environmental Health Sciences Research Center (EHSRC), Associate Member (2011-2018); Member (2018-present)
Iowa Academy of Sciences (IAS; 2012-present)
American Geophysical Union (AGU; 2012)
American Association of Aerosol Research (AAAR; 2006-2009)

SCHOLARSHIP

Peer-Reviewed Publications

Note: Articles 1-71 and 73-75 are products of independent research completed at the University of Iowa. Symbols signify undergraduate (‡), graduate (‖), and post-doctoral (ϯ) co-authors conducting research under E. A. Stone's supervision.

Published and in Press:

1. Stanier, C. O.; Pierce, R. B.; Abdi-Oskouei, M.; Adelman, Z. E.; Al-Saadi, J.; Bertram, T. H.; Carmichael, G. C.; Christiansen, M. B.; Cleary, P. A.; Czarnetzki, A. C.; Dickens, A. F.; Fuoco, M. A.; Hughes, D. D.‖; Hupy, J. P.; Judd, L. M.; Kenski, D.; Millet, D. B.; Roozitalab, B.; Shaw, S. L.; **Stone, E. A.**; Wagner, T. J.; Overview of the Lake Michigan Ozone Study (LMOS 2017). In press at the *Bulletin of the American Meteorological Society*, 2021, https://doi.org/10.1175/BAMS-D-20-0061.1
2. **Stone, E. A.**; Mampage, C.‖; Hughes, D. D.‖; Jones, L.‡; "Airborne sub-pollen particles from rupturing giant ragweed pollen" *Aerobiologia*, 2021, doi: 10.1007/s10453-021-09702-x.
3. Doak, A. G.; Christiansen, M. B.; Alwe, H. D.; Bertram, T. H.; Carmichael, G.; Cleary, P.; Czarnetzki, A. C.; Dickens, A. F.; Janssen, M.; Kenski, D.; Millet, D. B.; Novak, G.; Pierce, R. B.; **Stone, E. A.**; Szykman, J.; Vermeuel, M.; Wagner, T. J.; Valin, L.; Stanier, C. O.; Characterization of ground-based atmospheric pollution and meteorology sampling stations during the Lake Michigan Ozone Study 2017. *Journal of the Air and Waste Management Association,* 2021, 71:7, 866-889, DOI: 10.1080/10962247.2021.1900000
4. Islam, M. R.‖; Li, T.‡; Mahata, K.; Khanal, N.; Werden, B.; Praveen, P. S.; Dhital, N. B.; Gurung, A. Panday, A. K.; I. Jossi, I. B.; Poudel, S. P.; Wang, Y.; Saikawa, E.; Yokelson, R. J.; DeCarlo, P. F.; **Stone, E. A.**; Wintertime air quality in Lumbini, Nepal: sources of fine particle organic carbon. *ACS Earth and Space Chemistry,* 2021, 5, 2, 226–238, doi: 10.1021/acsearthspacechem.0c00269.
5. Milani, A. M.‡; Al-Naiema, I. M.‖; **Stone, E. A.**; Detection of a secondary organic aerosol tracer derived from personal care products. In press at *Atmospheric Environment*.
6. Hughes, D. D.‖; Christiansen, M.; Milani, A.‡; Vermeuel, M. P.; Novak, G. A.; Alwe, H. D.; Dickens, A. F.; Pierce, R. B.; Millet, D. B.; Bertram, T. H.; Stanier, C. O.; **Stone, E. A.**; PM2.5 chemistry, organosulfates, and SOA formation during the 2017 Lake Michigan

Ozone Study. In press at *Atmospheric Environment*, 244, 117939, 2021, doi: 10.1016/j.atmosenv.2020.117939.

7. Perkins, R.; Vazquez de Vasquez, M.; Beasley, E.; Hill, T.; **Stone, E. A.**; Allen, H.; DeMott, P.; Relating Structure and Ice Nucleation of Mixed Surfactant Systems Relevant to Sea Spray Aerosol. In press at *The Journal of Physical Chemistry A*, 2020, 124, 2, 8806-8821, doi: 10.1021/acs.jpca.0c05849.
8. Hasenecz, E.[‖]; Jayarathne, T.[‖]; Pendergraft, M.; Santander, M.; Mayer, K.; Sauer, J.; Lee, C.; Gibson, W.; Kruse, S.; Malfatti, F.; Prather, K.; **Stone, E. A.**; Marine bacteria affect saccharide enrichment in sea spray aerosol during a phytoplankton bloom. In press at *ACS Earth and Space Chemistry*, 2020, 4, 9, 1638-1649, doi: 10.1021/acsearthspacechem.0c00167.
9. Lee, H.; Wigley, S.; Lee, C.; Or, V.; Hazenecz, E. S.[‖]; **Stone, E. A.**; Grassian, V. H.; Prather, K. A.; Tivanski, A. V.; Physicochemical Mixing State of Sea Spray Aerosols: Morphologies Exhibit Size Dependence. *ACS Earth and Space Chemistry*, 2020, 4, 1604-1611, doi: 10.1021/acsearthspacechem.0c00153.
10. Saikawa, E.; Wu, Q.; Zhong, M.; Avramov, A.; Ram, K.; **Stone, E. A.**; Stockwell, C. E.; Jayarathne, T. J.; Panday, A. K.; Yokelson, R. J.; Garbage Burning in South Asia – How important is it to regional air quality? *Environmental Science & Technology*, 2020, 54, 16, 9928-9938, doi: 10.1021/acs.est.0c02830.
11. Hughes, D. D.[‖]; Mampage, C.[‖]; Jones, L.[‡]; Liu, Z.[‡]; **Stone, E. A.**; Characterization of atmospheric pollen fragments during springtime thunderstorms. *Environmental Science & Technology Letters*, 2020, 7, 6, 409-414, doi: 10.1021/acs.estlett.0c00213.
12. Stapleton, E. M.; Simmering, J. E.; Manges, R. B.; Chipara, O.; **Stone, E. A.**; Zabner, J.; Peters, T. M.; Herman, T.; Polgreen, P. M.; Comellas, A. P.; Continuous in-home PM2.5 concentrations of smokers with and without a history of respiratory exacerbations in Iowa, during and after an air purifier intervention. *Journal of Exposure Science and Environmental Epidemiology*, 2020, 30, 778-784, doi: 10.1038/s41370-020-0235-1.
13. Lee, H. D.; Morris, H. S.; Laskina, O.; Sultana, C.; Lee, C.; Jayarathne, T.[‖]; Cox, J.; Wang, X.; Hazenecz, E.[‖]; DeMott, P.; Bertram, T. H.; Cappa, C. D.; **Stone, E. A.**; Prather, K. A. ; Grassian, V. H.; Tivanski, A. V.; Organic Enrichment, Physical Phase State, and Surface Tension Depression of Nascent Core-Shell Sea Spray Aerosols During Two Phytoplankton Blooms. *ACS Earth and Space Chemistry*, 2020, 4, 4, 650-660, doi: 10.1021/acsearthspacechem.0c00032.
14. Islam, M. R.[‖]; Jayarathne, T.[‖]; Simpson, I. J.; Werden, B.; Maben, J.; Gilbert, A.[‡]; Praveen, P. S.; Adhikari, S.; Panday, A. K.; Rupakheti, M.; Blake, D. R.; Yokelson, R. J.; DeCarlo, P. F.; Keene, W. C.; **Stone, E. A.**; Ambient air quality in the Kathmandu Valley, Nepal during the pre-monsoon: Concentrations and sources of particulate matter and trace gases. *Atmospheric Chemistry and Physics*, 2020, 20, 2927-2951, doi: 10.5194/acp-20-2927-2020.

15. Stapleton, E. M.; Manges, R.; Parker, G.‖; **Stone, E. A.**; Peters, T. M.; Blount, R. J.; Noriega, J.; Li, X.; Zabner, J.; Polgreen, P. M.; Chipara, O.; Herman, T.; Comellas, A. P.; Indoor particulate matter from smoker homes induces bacterial growth, biofilm formation and impairs airway antimicrobial activity. A pilot study. *Frontiers in Public Health*, 2020, 2, 418, doi: 10.3389/fpubh.2019.00418.

16. Al-Naiema, I. M.‖; Offenberg, J.; Lewandowski, M.; Madler, C. J.‡; Kettler, J.‖; Fang, T.; **Stone, E. A.**; Secondary organic aerosols from aromatic hydrocarbons and their contribution to fine particulate matter in Atlanta, Georgia. *Atmospheric Environment*, 2020, 223, 117227, doi: 10.1016/j.atmosenv.2019.117227.

17. Vermeul, M. P.; Novak, G. A.; Alwe, H. D.; Hughes, D. D.‖; Kaleel, R.; Dickens, A. F.; Kenski, D.; Czarnetzki, A.; **Stone, E. A.**; Stanier, C. O.; Pierce, R. B.; Millet, D. B.; Bertram, T. H.; Sensitivity of Ozone Production to NOx and VOC along the Lake Michigan Coastline. *Journal of Geophysical Research – Atmospheres*, 2019, 124, doi:10.1029/2019JD030842.

18. Parker, G. J.‖; Ong, C. H.; Manges, R. B.; Stapleton, E. M.; Comellas, A.; Peters, T. M.; **Stone, E. A.**; A novel method of collecting and chemically char of airborne indoor particulate matter. *Aerosol and Air Quality Research*, 2019, 19, 11, 2387-2395, doi: 10.4209/aaqr.2019.04.0182.

19. Hasenecz, E.‖; Kaluarachchi, C. P.; Lee, H.; Tivanski, A. V.; **Stone, E. A.**; Saccharide Transfer to Sea Spray Aerosol Enhanced by Surface Activity, Calcium, and Protein Interactions. *ACS Earth and Space Chemistry*, 2019, 3, 11, 2539-2548, doi: 10.1021/acsearthspacechem.9b00197.

20. Zhong, M.; Saikawa, E.; Avramov, A.; Chen, C.; Sun, J.; Ye, W.; Ye, W.; Keene, W. C.; Yokelson, R. J.; Jayarathne, T.‖; **Stone, E. A.**; Rupakheti, M.; Panday, A. K.; Nepal Ambient Monitoring and Source Testing Experiment (NAMaSTE): Emissions of particulate matter and sulfur dioxide from vehicles and brick kilns and their impacts on air quality in the Kathmandu Valley, Nepal. *Atmospheric Chemistry and Physics*, 2019, 19, 8209-8228, doi: 10.5194/acp-19-8209-2019.

21. Wu, G.; Ram, K.; Fu, P.; Wang, W.; Zhang, Y.; Liu, X.; **Stone, E. A.**; Pradhan, B. B.; Dangol, P. M.; Panday, A. K.; Wan, X.; Bai, Z.; Kang, S.; Zhang, Q.; Cong, Z.; Water-Soluble Brown Carbon in Atmospheric Aerosols from Godavari (Nepal), a Regional Representative of South Asia. *Environmental Science & Technology,* 2019, 53, 7, 3471-3479, doi: 10.1021/acs.est.9b00596.

22. Chen, Y.; Xu, L.; Humphry, T.; Hettiyadura, A. P. S.‖; Ovadnevaite, J .; Huang, S.; Poulain, L.; Schroder, J. C.; Campuzano-Jost, P.; Jimenez, J. L.; Hermann, H.; O'Dowd, C.; **Stone, E. A.**; Ng, N. L.; Response of Aerosol Mass Spectrometer to Inorganic Sulfates and Organosulfur Compounds and Applications in Field and Laboratory Measurements. *Environmental Science & Technology*, 2019, 53, 9, 5176-5186, doi: 10.1021/acs.est.9b00884.

23. Lee, H.; Kaluarachchi, C. P.; Hasenecz, E. S.[‖]; Zhu, Z.; Popa, E.; **Stone, E. A.**; Tivanski, A. V.; Effect of dry or wet substrate deposition on the organic volume fraction of core-shell aerosol particles. *Atmospheric Measurement Techniques*, 2019, 12, 2033-2041, doi: 10.5194/amt-12-2033-2019.

24. Hughes, D.[‖]; **Stone, E. A.**; Organosulfates in the Midwestern United States: Abundance, composition, and stability. *Environmental Chemistry*, 2019, 16, 312-322, doi:10.1071/EN18260 (invited).

25. Hettiyadura, A. P. S.[‖]; Al-Naiema, I. M. J.[‖]; Hughes, D.[‖]; Fang, T.; **Stone, E. A.**; Organosulfates in Atlanta, Georgia: Anthropogenic influences on biogenic secondary organic aerosol formation. *Atmospheric Chemistry and Physics*, 2019, 19, 3191-3206, doi:10.5194/acp-19-3191-2019.

26. Schill, S. R.; Burrows, S. M.; Hasenecz, E. S.[‖]; **Stone, E. A.**; Bertram, T. H.; "The impact of divalent cations on the enrichment of soluble saccharides in primary sea-spray aerosol." *Atmosphere,* 2018, 9(12), 476, 10.3390/atmos9120476.

27. Al-Naiema, I. M.[‖]; Hettiyadura, A. P. S.[‖]; Wallace, H. W.; Sanchez, N. P.; Madler, C. J.[‡]; Cevik, B. K.; Bui, A.; Kettler, J.[‖]; Griffin, R. J.; **Stone, E. A.**; "Source apportionment of fine particulate matter in Houston, Texas: Insights to secondary organic aerosols" *Atmospheric Chemistry and Physics*, 2018, 18, 15601-15622, doi:10.5194/acp-18-15601-2018.

28. Goetz, J. D.; Giordano, M.; Stockwell, C. E.; Christian, T.; Maharjan, R.; Adhikari, S.; Bhave, P.; Praveen, P. S.; Panday, A.; Jayarathne, T.; **Stone, E. A.**; Yokelson, R. J.; DeCarlo, P. Speciated On-Line PM1 from South Asian Combustion Sources: Part 1, Fuel-based Emission Factors and Size Distributions. *Atmospheric Chemistry and Physics*, 2018, 18, 14653-14679, doi:10.5194/acp-18-14653-2018.

29. Khan, Z. Y.[‡]; Kettler, J.[‖]; Khwaja, H. A.; Naqvi, I. I.; Malik, A.; **Stone, E. A.**; Organic Aerosol Characterization and Source Identification in Karachi, Pakistan. *Aerosol and Air Quality Research*, 2018, 18:2550-2564, doi:10.4209/aaqr.2017.12.0579.

30. Hettiyadura, A. P. S.[‖]; Xu, L.; Jayarathne, T.[‖]; Skog, K.; Guo, H.; Weber, R. J.; Nenes, A.; Keutsch, F.; Ng, N. L.; **Stone, E. A.**; Source Apportionment of Organic Carbon in Centreville, AL using Organosulfates in Organic Tracer-based Positive Matrix Factorization. *Atmospheric Environment*, 2018, 186, 74-88, doi:10.1016/j.atmosenv.2018.05.007.

31. Al-Naiema, I.[‖]; Wang, Y.-Q.; Zhang, Y.-X.; Sheesley, R. J.; **Stone, E. A.**; Source apportionment of fine particulate matter organic carbon in Shenzhen, China by chemical mass balance and radiocarbon methods. *Environmental Pollution*, 2018, 240, 34-43, doi:10.1016/j.envpol.2018.04.071.

32. Vargas Buonfiglio, Luis G.; Borcherding, Jennifer A.; Frommelt, Mark; Parker, Gavin J.[‖]; Duchman, Bryce; Vanegas Calderón, Oriana G.; Fernandez-Ruiz, Ruth; Noriega, Julio; **Stone, Elizabeth A.**; Gerke, Alicia K.; Zabner, Joseph; Comellas, Alejandro P.; Airway surface liquid from smokers promotes bacterial growth and biofilm formation via iron-

lactoferrin imbalance. *Respiratory Research*, 2018, 19:42, doi:10.1186/s12931-018-0743-x.

33. T. Jayarathne[‖]; C. E. Stockwell; Gilbert, A.[‡]; Daugherty, K.[‡]; M. A. Cochrane; K. C. Ryan; E. I. Putra; B. H. Saharjo; A. D. Nurhayati; I. Albar; R. J. Yokelson; **E. A. Stone**; Chemical characterization of fine particulate matter emitted by peat fires in Central Kalimantan, Indonesia, during the 2015 El Niño. *Atmospheric Chemistry and Physics*, 2018, 4, 2585-2600, doi:10.5194/acp-18-2585-2018.

34. Bertram, T.; Cochran, R. E.; Grassian, V. H.; **Stone, E. A.**; Sea Spray Aerosol Chemical Composition: Elemental and Molecular Mimics for Laboratory Studies of Heterogeneous and Multiphase Reactions. *Chemical Society Reviews*, 2018, doi: 10.1039/C7CS00008A.

35. Jayarathne, T.[‖], Stockwell, C. E., Bhave, P. V., Rathnayake, C.M.[‖], Islam, M.R.[‖], Praveen, P.S., Panday, A. K., Adhikari, S., Maharjan, R., Goetz, J.D., DeCarlo, P. F., Saikawa, E., Yokelson, R. J., **Stone, E. A.**; Nepal Ambient Monitoring and Source Testing Experiment (NAMaSTE): Emissions of particulate matter from wood and dung cooking fires, brick kilns, generators, trash and crop residue burning. *Atmospheric Chemistry and Physics*, 2018, 18, 2259-2286, doi: 10.5194/acp-18-2259-2018.

36. Cochran, R. E.[†]; Laskina, O.; Trueblood, J.; Estillore, A.; Morris, H. S.; Jayarathne, T.[‖]; Sultana, C.; Lee, C.; Lin, P.; Laskin, J.; Laskin, A.; Dowling, J.; Qin, Z.; Cappa, C. D.; Bertram, T. H.; Tivanski, A. V.; **Stone, E. A.**; Prather, K. A.; Grassian, V. H.; Molecular Characterization of Sea Spray Particles: Influence of Ocean Biology on Particle Composition and Interaction with Water. *Chem* 2017, 2, 655-667, doi: 10.1016/j.chempr.2017.03.007.

37. Pokhrel, R. P.; Beamesderfer, E. R.; Wagner, N. L.; Langridge, J. M.; Lack, D. A.; Jayarathne, T.[‖]; **Stone, E. A.**; Stockwell, C. E. ; Yokelson, R. J.; Murphy, S. M.; "Relative Importance of Black Carbon, Brown Carbon and Absorption Enhancement from Clear Coatings in Biomass Burning Emissions. *Atmospheric Chemistry and Physics,* 2017, 17, 5063-5078, doi:10.5194/acp-17-5063-2017.

38. Rathnayake, C.[‖]; Kettler, J.[‡ ‖]; Metwali, N.; Jayarathne, T.[‖]; Huang, Y.[‡] ; Thorne, P.; O'Shaughnessy, P.; **Stone, E. A.**; Influence of Rain on the Abundance of Bioaerosols in Fine and Coarse Particles. *Atmospheric Chemistry and Physics*, 2017, 17, 2459-2475, doi:10.5194/acp-17-2459-2017.

39. Al-Naiema, I.[‖]; **Stone, E. A.**; Evaluation of Anthropogenic Secondary Organic Aerosol Tracers from Aromatic Hydrocarbons. *Atmospheric Chemistry and Physics,* 2017, 17, 2053-2065, doi:10.5194/acp-17-2053-2017.

40. Al-Naiema, I.[‖]; Roppo, H.[‡]; **Stone, E. A.**; Quantification furandiones in ambient aerosol. *Atmospheric Environment*, 2017, 153, 41-46, doi: 10.1016/j.atmosenv.2017.01.002.

41. Hettiyadura, A. P. S.[‖]; Jayarathne, T.[‖]; Baumann, K.; Goldstein, A. H.; de Gouw, J. A.; Keutsch, F. N.; Skog, K.; **Stone, E. A.**; "Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama." *Atmospheric Chemistry and Physics*, 2017, 17, 1342-1359, doi: 10.5194/acp-17-1343-2017.

42. McClusky, C. S.; Hill., T.; Malfatti, F.; Sultana, C. M.; Lee, C.; Santander, M. V.; Beall, C. M.; Moore, K. A.; Cornwell, G. C.; Collins, D. B.; Prather, K. A.; Jayarathne, T.‖; **Stone, E. A.**, Kreidenweis, S. M.; DeMott, P. J.; A dynamic link between ice nucleating particles released in nascent sea spray aerosol and oceanic biological activity during two mesocosm experiments. *Journal of the Atmospheric Sciences*, 2017, 74, 151-166, doi:10.1175/JAS-D-16-0087.1.

43. Jayarathne, T.‖; Sultana, C.; Lee, C.; Malfatti, F.; Cox, J. L.; Pendergraft, M. A. ; Moore, K. A.; Azam, F.; Tivanski, A. V.; Cappa, C. D.; Bertram, T. H.; Grassian, V. H.; Prather, K. A.; **Stone, E. A.**; Enrichment of Saccharides and Salts in Sea Spray Aerosol During two Phytoplankton Blooms. *Environmental Science & Technology*, 2016, 50 (21), 11511-11520, doi:10.1021/acs.est.6b02988.

44. Gosselin, M.I.; Rathnayake, C. M.‖; Crawford , I.; Pöhlker, C.; Fröhlich-Nowoisky; J., Schmer; B., Després, V.; Engling, G.; Gallagher, M.; **Stone, E. A.**; Pöschl, U.; Huffman, J. A.; Fluorescent Bioaerosol Particle, Molecular Tracer, and Fungal Spore Concentrations during Dry and Rainy Periods in a Semi-Arid Forest. *Atmospheric Chemistry and Physics*, 2016, 15165-15184, doi:10.5194/acp-16-15165-2016.

45. Adams, E. M.; Verreault, D.; Jayarathne, T.‖; Cochran, R. E.†; **Stone, E. A.**; Allen, H. C.; Surface organization of a DPPC monolayer on concentrated $SrCl_2$ and $ZnCl_2$ solutions. *Physical Chemistry Chemical Physics*, 2016, doi:10.1039/c6cp06887a.

46. C. E. Stockwell; T. Jayarathne‖; M. A. Cochrane; K. C. Ryan; E. I. Putra; B. H. Saharjo; A. D. Nurhayati; I. Albar; D. R. Blake; I. Simpson; E. A. Stone; R. J. Yokelson; Field measurements of trace gases and aerosols emitted by peat fires in Central Kalimantan, Indonesia during the 2015 El Niño. *Atmospheric Chemistry and Physics*, 2016, 16, 11711-11732, 10.5194/acp-16-11711-2016.

47. C. E. Stockwell, T. J. Christian, J. D. Goetz, T. Jayarathne‖, P. V. Bhave, S. Adhikari, P. S. Praveen, R. Maharjan, P. F. DeCarlo, E. A. Stone, E. Saikawa, D. R. Blake, I. Simpson, R. J. Yokelson, A. K. Panday; Nepal Ambient Monitoring and Source Testing Experiment (NAMaSTE): Emissions of trace gases and light-absorbing carbon from wood and dung cooking fires, garbage and crop residue burning, brick kilns, and other sources. *Atmospheric Chemistry and Physics*, 2016, 16, 11043-11081, doi: 10.5194/acp-16-11043-2016

48. Riva, M.; Da Silva Barbosa, T.; Lin, Y.-H.; **Stone, E. A.**; Gold, A.; Surratt, J. D.; Characterization of Organosulfates in Secondary Organic Aerosol Derived from the Photooxidation of Long-Chain Alkanes. *Atmospheric Chemistry and Physics*, 2016, 16, 11001-11018, doi:10.5194/acp-16-11001-2016.

49. Pokhrel, R.; Wagner, N.; Langridge, J.; Lack, D.; Jayarathne, T.‖; **Stone, E. A.**; Stockwell, C.; Yokelson, R.; Murphy, S.; Parameterization of Single Scattering Albedo (SSA) and Absorption Angstrom Exponent (AAE) with EC/OC for Aerosol Emissions from Biomass Burning. *Atmospheric Chemistry and Physics*, 2016, 16, 9549-9561, doi:10.5194/acp-16-9549-2016

50. Rathnayake, C.‖; Metwali, N.; Baker, Z.‡; Jayarathne, T.‖; Thorne, P.; O'Shaughnessy, P., **Stone, E. A.**; Urban enhancement of PM_{10} bioaerosol tracers relative to background locations in the Midwestern United States. *Journal of Geophysical Research – Atmospheres*, 2016, 121 (9), 5071-5089, doi:10.1002/2015JD024538.

51. Levin, E. J. T.; McMeeking, G. R.; DeMott, P. J.; McCluskey, C. S.; Carrico, C. M.; Nakao, S.; Jayarathne‖, T.; **Stone, E. A.**; Stockwell, C. E.; Yokelson, R. J.; and Kreidenweis, S. M. Ice Nucleating Particle Emissions from Biomass Combustion and the Potential Importance of Soot Aerosol. *Journal of Geophysical Research – Atmospheres*, 2016, 121 (10), doi: 10.1002/2016JD024879.

52. Cochran, R. E.†; Jayarathne, T. J.‖; **Stone, E. A.**; Grassian, V. H.; Selectivity across the interface: A test of surface activity in the composition of organic enriched aerosols from bubble bursting. *Journal of Physical Chemistry Letters*, 2016, 7, 1692-1696, doi: 10.1021/acs.jpclett.6b00489

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TEACHING AT THE UNIVERSITY OF IOWA

Fundamentals of Chemical Measurements (CHEM:2021)
Analytical Chemistry I (CHEM:3110)
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