

Curriculum Vitae

Elizabeth A. Stone

Associate Professor
Department of Chemistry
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EDUCATION AND PROFESSIONAL HISTORY

Education

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

Professional Appointments

- 2016-present Associate Professor, Department of Chemistry
- 2017-present Associate Professor, Department of Chemical and Biochemical
Engineering
- 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

Oliven Lecturer, Kirkwood Community College (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-present)
Iowa Academy of Sciences (IAS; 2012-present)
American Geophysical Union (AGU; 2012-present)
American Association of Aerosol Research (AAAR; 2006-2009)

SCHOLARSHIP

Peer-Reviewed Publications

Note: Items 1-34, 36-38, 62-65 are products of work done at the University of Iowa; symbols signify undergraduate (‡), graduate (||), and post-doctoral (†) co-authors under E. A. Stone's supervision at the University of Iowa; for multi-authored work, stars indicate E. A. Stone's involvement as a senior author (), secondary contributor (**), equal contributor (***), or minor contributor (****).*

Published and in Press:

1. 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” In press at *Chem*.
2. 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” In press at *Atmospheric Chemistry and Physics*.
3. Al-Naiema, I.; Stone, E. A.*; “Evaluation of Anthropogenic Secondary Organic Aerosol Tracers” In press at *Atmospheric Chemistry and Physics*.
4. 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.
5. Hettiyadura, A. P. S.[‡]; Jayarathne, T.[‡]; Stone, E. A.*; “Qualitative and quantitative analysis of atmospheric organosulfates in Centreville, Alabama.” In press at *Atmospheric Chemistry and Physics*, doi: doi:10.5194/acp-17-1-2017
6. 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) pp 11511-11520, doi:10.1021/acs.est.6b02988.
7. 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.
8. Adams, E. M.; Verreault, D.; Jayarathne, T.[‡]; Cochran, R. E.[†]; Stone, E. A.^{****}; Allen, H. C.; “Surface organization of a DPPC monolayer on concentrated SrCl₂ and ZnCl₂ solutions” *Physical Chemistry Chemical Physics*, 2016, doi:10.1039/c6cp06887a.
9. 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 with nascent sea spray aerosol and oceanic biological activity expressed during two mesocosm experiments” In press at *the Journal of the Atmospheric Sciences*, doi:10.1175/JAS-D-16-0087.1
10. 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, doi:10.5194/acp-2016-411.

11. 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
12. 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.
13. 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
14. Rathnayake, C.^{||}; Metwali, N.; Baker, Z.[‡]; Jayarathne, T.^{||}; Thorne, P.; O’Shaughnessy, P., Stone, E. A.*; Urban enhancement of PM₁₀ 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.
15. 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.
16. 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.jpcllett.6b00489
17. Estillore, A. D.; Qin, Z.; Hettiyadura, A. P. S.^{||}; Humphrey, T.; Stone, E. A.*; Grassian, V. H.; “Deliquescence and hygroscopic growth of organosulfates” *Environmental Science & Technology*, 50 (8) 4259-4268, doi:10.1021/acs.est.5b05014.
18. Zhong, M.; Saikawa, E.; Liu, Y.; Naik, V.; Horowitz, L. W.; Takigawa, M.; Zhao, Y.; Lin, N.-H.; Stone, E. A.^{****}; Air Quality Modeling with WRF-Chem v3.5 in East Asia: Sensitivity to Emissions and Evaluation of Simulated Air Quality. *Geoscientific Model Development*, 2016, 9, 1201-1218, doi:10.5194/gmd-9-1201-2016.
19. Cochran, R. E.[‡]; Laskina, O.; Jayarathne, T.^{||}; Laskin, A.; Laskin, J.; Lin, P.; Sultana, C.; Cappa, C. D.; Bertram, T. H.; Prather, K.; Grassian, V. H.; Stone, E. A.* Characterization of anionic surfactants in fine and coarse fractions of nascent sea spray aerosol. 2016,

Environmental Science & Technology, 2016, 50 (5), 2477-2486, doi:
10.1021/acs.est.5b04053.

20. Jayarathne, T.^{||}; Rathnayake, C.^{||}; Stone, E. A.* Local impacts on primary and secondary aerosols in the Midwestern United States. *Atmospheric Environment*, 2016, 130, 74-83, doi: 10.1016/j.atmosenv.2015.09.058, invited.
21. Butt, E. W.; , Rap, A.; Schmidt, A.; Scott, C. E.; Pringle, K. J.; Reddington, C. L.; Richards, N. A. D.; Woodhouse, M. T.; Ramirez-Villegas, J.; Yang, H.; Vakkari, V.; Stone, E. A.****; Rupakheti, M.; Praveen, P. S.; van Zyl, P. G.; Beukes, J. P.; Josipovic, M; Mitchell, E. J. S.; Sallu, S. M.; Forster, P. M.; Spracklen, D. V.; The impact of residential combustion emissions on atmospheric aerosol, human health and climate. *Atmospheric Chemistry and Physics*; 2016, 16 (2) 873-905, doi: 10.5194/acpd-15-20449-2015.
22. Laskina, O.; Morris, H. S.; Grandquist, J. R.; Stone, E. A.****; Tivanski, A. V.; Grassian, V. H.; Substrate-deposited sea spray aerosol particles: Inter-comparison study of analytical method, substrate and storage conditions on particle size, *phase* and morphology. *Environmental Science & Technology*, 2015, 49 (22), 13447-13453, doi: 10.1021/acs.est.5b02732
23. Al Naiema, I.^{||}, Mudukotuwa, I.; Estillore, A.; Grassian, V. H., Stone, E. A.* Impacts of Co-firing Biomass on Emissions of Particulate Matter to the Atmosphere *Fuel*, 2015 162, 111-120, doi:10.1016/j.fuel.2015.08.054.
24. Rattanavaraha, W.; K. Chu; S. H. Budisulistiorini; M. Riva; Y.-H. Lin; E. S. Edgerton; K. Baumann; S. L. Shaw; H. Guo; L. King; R. J. Weber; E. A. Stone****; M. E. Neff[†]; J. H. Offenberg; Z. Zhang; A. Gold; and J. D. Surratt Assessing the impact of anthropogenic pollution on isoprene-derived secondary organic aerosol formation in PM_{2.5} collected from the Birmingham, Alabama ground site during the 2013 Southern Oxidant and Aerosol Study. *Atmospheric Chemistry and Physics*; 2015, 15 (15) 8871-8888, doi: 10.5194/acp-2015-983
25. Budisulistiorini, S. H.; Li, X.; Bairai, S. T.; Renfro, J. ; Liu, Y.; Liu, Y. J. ; McKinney, K. A.; Martin, S. T.; McNeill, V. F.; Pye, H. O. T.; Nenes, A.; Neff, M. E.[†]; Stone, E. A.****; Mueller, S.; Knote, C.; Shaw, S. L.; Zhang, Z.; Gold, A. Surratt, J. D. Examining the effects of anthropogenic emissions on isoprene-derived secondary organic aerosol formation during the 2013 Southern Oxidant and Aerosol Study (SOAS) at the Look Rock, Tennessee, ground site. *Atmospheric Chemistry and Physics*, 2015, 15, 8871-8888, doi: doi: 10.5194/acp-15-8871-2015.
26. Hettiyadura, A. P. S.^{||}; Stone, E. A.*; Baker, Z.[†]; Kundu, S.[†]; Geddes, E.; Richards, K.; Humphry T.; Determination of atmospheric organosulfates using HILIC chromatography with MS detection. *Atmospheric Measurement Techniques*, 2015, 8, 2347-2358, doi:10.5194/amt-8-2347-2015.
27. Riva, M.; Tomaz, S.; Cui, T.; Lin, Y. H.; Perraudin, E.; Gold, A.; Stone, E. A.***; Villenave, E.; Surratt, J. D.; Evidence for an Unrecognized Secondary Anthropogenic Source of Organosulfates and Sulfonic Acids: Gas-Phase Oxidation of Polycyclic Aromatic

Hydrocarbons in the Presence of Sulfate Aerosol. *Environmental Science & Technology*, 2015, 49 (11), 6654-6664, doi: 10.1021/acs.est.5b00836

28. Downard, J.^{||}; Singh, A.; C.; Bullard, R.; Jayarathne, K. T. M. S.^{||}; Rathnayake, C.^{||}; Simmons, D.; Wels, B. R.; Spak, S.; Peters, T.; Beardsley, D.; Stanier, C.; Stone, E. A.* Uncontrolled combustion of shredded tires in a landfill, Part 1: Characterization of gaseous and particulate emissions from a large-scale tire fire. *Atmospheric Environment*, 2015, 104, 195-204, doi: 10.1016/j.atmosenv.2014.12.059
29. Singh, A.; Spak, S.; Stone, E. A.^{***}; Downard, J.^{||}; Bullard, R.; Pooley, M.; Kostle, P.; Mainprize, M.; Wichman, M.; Peters, T.; Beardsley, D.; Stanier, C. Uncontrolled combustion of shredded tires in a landfill, Part 2: Population Exposure, Public Health Response, and an Air Quality Index for Urban Fires *Atmospheric Environment*, 2015, 104, 273-283, doi: 10.1016/j.atmosenv.2014.12.059.
30. Washenfelder, R. A.; Attwood, A. R.; Guo, J.; Weber, R. J.; Brock, C. A.; Brown, S. S.; Allen, H. M.; Ayres, B. R.; Baumann, K.; Cohen, R. C.; Draper, D. C.; Duffey, K. C.; Edgerton, E.; Fry, J. L.; Hu, W.; Jimenez, J. L.; Ng, N. L.; Palm, B.; Romer, R.; Stone, E. A.^{****}; Wooldridge, P. J.; Xu, L. Biomass burning dominates brown carbon aerosol in the rural Southeastern United States. *Geophysical Research Letters*, 2015, 43, doi: 10.1002/2014GL062444.
31. Laskina, O.; Morris, H. S.; Grandquist, J. R.; Qin, Z.; Stone, E. A.^{****}; Tivanski, A. V.; Grassian, V. H. Size Matters in the Water Uptake and Hygroscopic Growth of Atmospherically Relevant Multi-Component Aerosol Particles *Journal of Physical Chemistry A*, 2015, doi: 10.1021/jp510268p, selected ACS Editor's Choice.
32. Jayarathne, T.^{||}; Stockwell, C.; Yokelson, B.; Nakao, S.; Stone, E. A.* Fluoride emissions from biomass burning. *Environmental Science & Technology*, 2014, 48 (21): 12636-12644, doi: 10.1021/es502933.
33. Staudt, S.[‡]; Kundu, S.[‡]; He, X.; Lehmler, H.; Lin, Y.; Cui, T.; Kristensen, K.; Glasius, M.; Zhang, X.; Weber, R.J.; Surratt, J.D., Stone, E. A.* Aromatic organosulfates in atmospheric aerosols: synthesis, characterization, and abundance *Atmospheric Environment*, 2014, 94, 366-373. doi: 10.1016/j.atmosenv.2014.05.049
34. Kundu, S.[‡]; Stone, E. A.* Spatial variability in the chemical composition and sources of PM_{2.5} in Iowa. *Environmental Science: Processes & Impacts*, 2014, 16 (6), 1360-1370. doi:10.1039/C3EM00719G.
35. Liu, Shang; Aiken, A. C.; Arata, C.; Dubey, M.; K.; Stockwell, C. E.; Yokelson, R. J.; Stone, E. A.^{***}; Jayarathne, T.^{||}; Robinson, A.; DeMott, P. J.; Kreidenweis, S. M. Aerosol single scattering albedo dependence on biomass combustion efficiency: Laboratory and field studies. *Geophysical Research Letters*, 2014, 41 (2), 742-748. doi: 10.1002/2013GL058392
36. Rutter, A.P.; Snyder, D. C.; Stone, E. A.^{**}; Shelton, B.; DeMinter, J.; Schauer, J. J. Preliminary assessment of the anthropogenic and biogenic contributions to secondary

organic aerosols at two industrial cities in the upper Midwest. *Atmospheric Environment*, 2014, 84, 307-313. doi: 10.1016/j.atmosenv.2013.11.014

37. Kundu, S.[†]; Quraishi, T.; Yu, G.; Suarez, C.; Keutsch, F.; Stone, E. A.* “Evidence and Quantitation of Aromatic Organosulfates in Ambient Aerosols in Lahore Pakistan” *Atmospheric Chemistry and Physics*, 2013, 13, 4865-4875. doi:10.5194/acp-13-4865-2013
38. Stone, E. A.*; Nguyen, T.T.[‡]; Pradhan B. B.; Dangol, P. M., “Assessment of biogenic secondary organic aerosol in the Himalayas.” *Environmental Chemistry*, 2012, 9, 263-272, invited.
39. Stone, E. A.*; Yang, L. M.; Yu, L. E.; Rupakheti, M., Characterization of organosulfates in atmospheric aerosols at four Asian locations, *Atmospheric Environment*, 2012, 47, 323-329.
40. Olson, C. O.; Galloway, M. M.; Yu, G.; Hedman, C. J.; Lockett, M. R.; Yoon, T.; Stone, E. A.***; Keutsch, F. N., Hydroxycarboxylic acid-derived organosulfates: synthesis, stability, and quantification in ambient aerosol. *Environmental Science & Technology*, 2011, 45, 6468-6474.
41. Stone, E. A.*; Yoon, S.; Schauer, J. J., Composition of fine and coarse particulate matter in Gosan, Korea during the springtime dust season. *Aerosol and Air Quality Research*, 2011, 11, 1, 31-43.
42. von Schneidmesser, E.; Zhou, J.; Stone, E. A.**; Schauer, J. J.; Qasrawi, R.; Abdeen, Z.; Shpund, J.; Vanger, A.; Sharf, G.; Moise, T.; Shmuel, B.; Nassar, K.; Saleh, R.; Quassai, A.; Sarnat, J. A., Seasonal and spatial trends in the sources of fine particle organic carbon in Israel, Jordan, and Palestine. *Atmospheric Environment*, 2010, 44, 3669-3678.
43. Stone, E. A.*; Schauer J. J.; Pradhan B. B.; Dangol, P. M., Habib, G.; Venkataraman, C., Source apportionment of carbonaceous aerosol in the Kathmandu Valley: Sensitivity to biomass source profiles. *Journal of Geophysical Research-Atmospheres*, 2010, 115, (D22).
44. Stone, E. A.*; Schauer J. J.; Quraishi, T.; Mahmood A., Chemical characterization and source apportionment of fine and coarse particulate matter in Lahore, Pakistan. *Atmospheric Environment*, 2010, 44, 1062-1070.
45. Shafer, M. M.; Perkins, D. A.; Antkiewicz, D. S.; Stone, E. A.**; Quraishi, T. A.; Schauer, J. J., Reactive oxygen species activity and chemical speciation of size-fractionated atmospheric particulate matter from Lahore, Pakistan: an important role for transition metals. *Journal of Environmental Monitoring*, 2010, 12 (3), 704-715.
46. von Schneidmesser, E.; Stone, E. A.**; Quraishi, T.; Shafer, M. M.; Schauer, J. J., Toxic metals in the atmosphere in Lahore, Pakistan. *Science of the Total Environment*, 2010, 408 (7), 1640-1648.
47. von Schneidmesser, E.; Zhou, J.; Stone, E. A.**; Schauer, J. J.; Shpund, K.; Brenner, S.; Barakat, R.; Abdeen, Z.; Sarnat, J. A., Spatial Variability of Carbonaceous Aerosol

Concentrations in East and West Jerusalem. *Environmental Science & Technology*, 2010, 44 (6), 1911-1917.

48. Stone, E. A.*; Hedman, C. J.; Zhou, J.; Mieritz, M. M.; Schauer J. J., Insights to the nature of secondary organic aerosol in Mexico City during the MILAGRO Experiment 2006. *Atmospheric Environment*, 2010, 44, 312-319.
49. Adhikary, B.; Carmichael, G. R.; Kulkarni, S.; Wei, C.; Tang, Y.; Dallura, A.; Mena, M.; Streets, D.; Zhang, Q.; Pierce, R. B.; Al-Saadi, J. A.; Emmons, L.; Pfister, G.; Avery, M.; Barrick, J.; Blake, D. R.; Brune, W.; Cohen, R.; Dibb, J.; Fried, A.; Heikes, B.; Huey, G.; O'Sullivan, D.; Sachse, G.; Shetter, R.; Singh, H.; Campos, T.; Cantrell, C. A.; Flocke, F.; Jimenez, J. L.; Weinheimer, A. J.; Wennberg, P.; Schauer, J. J.; Stone, E. A.****; Jaffe, D.; Reidmiller, D., A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during INTEX-B field campaign. *Atmospheric Chemistry and Physics*, 2010, 10, 2091-2115.
50. Flowers, B. A.; Dubey, M. K.; Mazzoleni, C.; Stone, E. A.****; Schauer, J. J.; Kim, S. W.; Yoon, S. C., Optical-chemical-microphysical relationships and closure studies for mixed carbonaceous aerosols observed at Jeju Island; 3-laser photoacoustic spectrometer, particle sizing, and filter analysis. *Atmospheric Chemistry and Physics*, 2010, 10, 10387-10398.
51. Stone, E. A.*; Hedman, C. J.; Sheesley, R. J.; Shafer, M. M.; Schauer J. J., Characterization of humic-like substances (HULIS) in North American aerosols using LC-MS/MS. *Atmospheric Environment*, 2009, 73, (27), 4205-4213.
52. Hodzic, A.; Jimenez, J. L.; Madronich, S.; Aiken, A. C.; Bessagnet, B.; Curci, G.; Fast, J.; Lamarque, J.F.; Onasch, T. B.; Roux, G.; Schauer, J. J.; Stone, E. A.****; Ulbrich, I. M., Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. *Atmospheric Chemistry and Physics*, 2009, 9, (18), 6949-6981.
53. Stone, E. A.*; Zhou, J.; Snyder, D. C.; Rutter, A. P.; Schauer, J. J., A comparison of summertime secondary organic aerosol at contrasting urban locations. *Environmental Science & Technology* 2009, 43, 3448-3454.
54. Aiken, A. C.; Salcedo, D.; Cubison, M. J.; Huffman, J. A.; DeCarlo, P. F.; Ulbrich, I. M.; Docherty, K. S.; Sueper, D.; Kimmel, J. R.; Worsnop, D. R.; Trimborn, A.; Northway, M.; Stone, E. A.****; Schauer, J. J.; Volkamer, R.; Fortner, E.; de Foy, B.; Wang, J.; Laskin, A.; Shutthanadan, V.; Zheng, J.; Zhang, R.; Gaffney, J.; Marley, N. A.; Parades-Miranda, G.; Arnott, W. P.; Molina, L. T.; Sosa, G.; Jimenez, J. L., Mexico City aerosol analysis during MILAGRO using high resolution aerosol mass spectrometry at the urban supersite (T0) – Part 1: Fine particle composition and organic source apportionment. *Atmospheric Chemistry and Physics*, 2009, 9, (17), 6633-6653.
55. Rutter, A. P.; Snyder, D. C.; Stone, E. A.**; Schauer, J. J.; Gonzalez, R.; Molina, L. T.; Márquez, C.; Cárdenas, B.; de Foy, B., In Situ Measurements of Speciated Atmospheric Mercury in the Mexico City Metropolitan Area. *Atmospheric Chemistry and Physics* 2009, 9, 207-220.

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57. Stone, E. A.*; Snyder, D. C.; Sheesley, R. J.; Sullivan, A. P.; Weber, R. J.; Schauer, J. J., Source apportionment of fine organic aerosol in Mexico City during the MILAGRO experiment 2006. *Atmospheric Chemistry and Physics* 2008, 8, 1249-1259.
58. Docherty, K.S.; Stone, E.A.**; Ulbrich, I.M.; DeCarlo, P.F.; Snyder, D.C.; Schauer, J.J.; Peletier, R.E.; Weber, R.J.; Murphy, S.M.; Seinfeld, J.H.; Grover, B.D.; Eatough, D.J.; Jimenez, J.L., Apportionment of primary and secondary organic aerosols in Southern California during the 2005 study of organic aerosols in riverside (SOAR). *Environmental Science & Technology* 2008, 42, (20), 7655-7662.
59. Stone, E. A.*; Lough, G. C.; Schauer, J. J.; Praveen, P. S.; Corrigan, C. E.; Ramanathan, V., Understanding the origin of black carbon in the atmospheric brown cloud over the Indian Ocean. *Journal of Geophysical Research-Atmospheres* 2007, 112, (D22), doi: 10.1029/2006JD008118.
60. Adhikary, B.; Carmichael, G. R.; Tang, Y.; Leung, L. R.; Qian, Y.; Schauer, J. J.; Stone, E. A.**; Ramanathan, V.; Ramana, M. V., Characterization of the seasonal cycle of south Asian aerosols: A regional-scale modeling analysis. *Journal of Geophysical Research-Atmospheres* 2007, 112, (D22), doi: 10.1029/2006JD008143.
61. Ramanathan, V.; Li, F.; Ramana, M. V.; Praveen, P. S.; Kim, D.; Corrigan, C. E.; Nguyen, H.; Stone, E. A.***; Schauer, J. J.; Carmichael, G. R.; Adhikary, B.; Yoon, S. C., Atmospheric brown clouds: Hemispherical and regional variations in long-range transport, absorption, and radiative forcing. *Journal of Geophysical Research-Atmospheres* 2007, 112, (D22), doi: 10.1029/2006JD008124.
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In review, in revision, and submitted:

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