

Amy P. Sullivan  
Colorado State University  
Department of Atmospheric Sciences  
1371 Campus Delivery, Fort Collins, CO 80523  
e-mail: sullivan@atmos.colostate.edu

### Education:

Georgia Institute of Technology - PhD in Atmospheric Chemistry, August 2006  
Boston College - Bachelor of Science in Chemistry, May 2000

### Experience:

Research Scientist III in Dr. Jeffrey Collett's Atmospheric Chemistry Laboratory at Colorado State University, February 2017 to Present  
Research Scientist II in Dr. Jeffrey Collett's Atmospheric Chemistry Laboratory at Colorado State University, April 2008 to February 2017  
Post-doctoral Researcher in Dr. Jeffrey Collett's Atmospheric Chemistry Laboratory at Colorado State University, June 2006 to April 2008  
Graduate Research Assistant in Dr. Rodney Weber's Atmospheric Chemistry Laboratory at Georgia Institute of Technology, The Ambient Organic Aerosol Soluble in Water: Measurements, Chemical Characterization, and an Investigation of Sources, August 2000 to June 2006  
Scholar of the College (Independent Research Project at Boston College): Chlorine Atom Dependence for a Chemiluminescent Method of Chlorinated Hydrocarbon Vapor Detection, August 1999 to April 2000  
Undergraduate Faculty Research Fellows Program at Boston College - Research Assistant in Dr. David McFadden's Physical Chemistry Laboratory on Project to Develop a Practical Detector for Chlorinated Hydrocarbon Vapors in Industrial Settings, Summers of 1997, 1998, and 1999

### Honors:

Elected Treasurer for American Association of Aerosol Research (AAAR), September 2017  
Elected to Board for AAAR, September 2014  
Elected Vice Chair of the AAAR Instrumentation Working Group, September 2013  
Participant in US/Nordic workshop for early career scientists on Biogenic Secondary Organic Aerosols: Observations to Global Modeling, July 2007 and August 2008  
Participant in Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS) VIII, September 2005  
Department of Earth and Atmospheric Sciences Best Paper Award for Sullivan et al. GRL article, April 2005  
AGU Journal Highlight for Sullivan et al. GRL article, July 2004  
Presidential Fellowship, Georgia Institute of Technology, August 2000 to 2006  
Magna Cum Laude, Boston College, May 2000  
Phi Beta Kappa, Inducted in May 2000  
Merck Undergraduate Award in Chemistry, Boston College, May 2000  
Scholar of the College, Boston College, 1999-2000  
American Chemical Society Undergraduate Analytical Chemistry Award, Boston College, May 1999  
Golden Key National Honor Society, Inducted in 1998  
Sophomore Scholar, Boston College, 1998  
National Society of Collegiate Scholars at Boston College, 1998  
Dean's List (All Semesters), Boston College, 1996-2000

### Research Products:

#### Papers

Lindaas, J., I.B. Pollack, J.J. Calahorrano, K. O'Dell, L.A. Garofalo, M.A. Pothier, D.K. Farmer, S.M. Kreidenweis, T. Campos, F. Flocke, A.J. Weinheimer, D.D. Montzka, G.S. Tyndall, E.C. Apel, A.J. Hills, R.S. Hornbrook, B.B. Palm, Q. Peng, J.A. Thornton, W. Permar, C. Wielgasz, L. Hu, J.R. Pierce, J.L. Collett, Jr., **A.P. Sullivan**, and E.V. Fischer, Empirical insights into the fate of ammonia in western U.S. wildfire smoke plumes, *J. Geophys. Res.*, *126*, e2020JD033730, doi:10.1029/2020JD033730, 2021.  
Peng, Q., B.B. Palm, C.D. Fredrickson, B.H. Lee, S.R. Hall, K. Ullman, T. Campos, A.J. Weinheimer, E.C. Apel, F. Flocke, W. Permar, L. Hu, L.A. Garofalo, M.A. Pothier, D.K. Farmer, I.-T. Ku, **A.P. Sullivan**, J.L. Collett, Jr., E. Fischer, and J.A. Thornton, Observations and Modeling of NO<sub>x</sub> Photochemistry and Fate in Fresh Wildfire Plumes, *ACS Earth and Space Chemistry*, *5*, 10, 2652-2667, doi:10.1021/acsearthspcachem.1c0086, 2021.  
Permar, W., Q. Wang, V. Selimovic, C. Wielgasz, R.J. Yokelson, R.S. Hornbrook, A.J. Hills, E.C. Apel, I.-T. Ku, Y. Zhou, B.C. Sive, **A.P. Sullivan**, J.L. Collett, Jr., T.L. Campos, B.B. Palm, Q. Peng, J.A. Thornton, L.A. Garofalo, D.K. Farmer, S.M. Kreidenweis, E.J.T. Levin, P.J. DeMott, F. Flocke, E.V. Fischer, and L. Hu, Emissions of trace organic gases from western U.S. wildfires based on WE-CAN aircraft measurements, *J. Geophys. Res.*, *126*, e2020JD033838, doi:10.1029/2020JD033838, 2021.  
Wang, Y., G. Zheng, M.P. Jensen, D.A. Knopf, A. Laskin, A.A. Matthews, D. Mechem, F. Mei, R. Moffet, A.J. Sedlacek, J.E. Shilling, S. Springston, **A. Sullivan**, J. Tomlinson, D. Veghte, R. Weber, R. Wood, M.A. Zawadowicz, and J. Wang, Vertical profiles of trace

- gas and aerosol properties over the Eastern North Atlantic: variations with season and synoptic condition, *Atmos. Chem. Phys.*, *21*, 11079-11098, doi:10.5194/acp-21-11079-2021, 2021.
- Zeng, L., **A.P. Sullivan**, R.A. Washenfelder, J. Dibb, E. Scheuer, T.L. Campos, J.M. Katich, E. Levin, M.A. Robinson, and R.J. Weber, Assessment of online water-soluble brown carbon measuring systems for aircraft sampling, *Atmos. Meas. Tech.*, *14*, 6357-6378, doi:10.5194/amt-14-6357-2021, 2021.
- Ballesteros-González, K., **A.P. Sullivan**, and R. Morales-Betancourt, Estimating the air quality and health impacts of biomass burning in northern South America using a chemical transport model, *Science of the Total Environment*, *739*, 139755, doi:10.1016/j.scitotenv.2020.139755, 2020.
- Brown, S.G., J.L. Snyder, M.C. McCarthy, N. Pavlovic, S. D'Andrea, J. Hanson, **A.P. Sullivan**, and H.R. Hafner, Assessment of Ambient Air Toxics and Wood Smoke Pollution among Communities in Sacramento County, *Int. J. Environ. Res. Public Health*, *17*, 1080, doi:10.3390/ijerph17031080, 2020.
- Jin, Y., C. Yan, **A.P. Sullivan**, Y. Liu, X. Wang, H. Dong, S. Chen, L. Zeng, J.L. Collett, Jr., and M. Zheng, Significant Contribution of Primary Sources to Water-Soluble Organic Carbon during Spring in Beijing, China, *Atmospheres*, *11*, 395, doi:10.3390/atmos11040395, 2020.
- Lassman, W., J.R. Pierce, E.J. Bangs, **A.P. Sullivan**, B. Ford, G.M. Tsidu, J.P. Sherman, J.L. Collett, and S. Bililign, Using Low-Cost Measurement Systems to Investigate Air Quality: A Case Study in Palapye, Botswana, *Atmospheres*, *11*, 583, doi:10.3390/atmos11060583, 2020.
- Lindaas, J., I.B. Pollack, L.A. Garofalo, M.A. Pothier, D.K. Farmer, S.M. Kreidenweis, D.D. Montzka, G.S. Tyndall, B.B. Palm, Q. Peng, J.A. Thornton, W. Permar, C. Wielgasz, L. Hu, R.D. Ottmar, J.C. Restaino, A.T. Hudak, I. Ku, **A.P. Sullivan**, J.L. Collett, Jr., and E.V. Fischer, Emissions of reactive nitrogen from Western U.S. wildfires during summer 2018, *J. Geophys. Res.*, *125*, doi:10.1029/2020JD032657, 2020.
- Rincón-Riveros, J.M., M.A. Rincón-Caro, **A.P. Sullivan**, J.F. Mendez-Espinosa, L.C. Belalcazar, M. Quirama Aguilar, and R. Morales Betancourt, Long-term brown carbon and smoke tracer observations in Bogotá, Colombia: association to medium-range transport of biomass burning plumes, *Atmos. Chem. Phys.*, *20*, 7459-7472, doi:10.5194/acp-20-7459-2020, 2020.
- Sullivan, A.P.**, K.B. Benedict, C.M. Carrico, M.K. Dubey, B.A. Schichtel, and J.L. Collett, Jr., A Quantitative Method to Measure and Speciate Amines in Ambient Aerosol Samples, *Atmospheres*, *11*, 808, doi:10.3390/atmos11080808, 2020.
- Yan, C., M. Zheng, Y. Desyaterik, **A.P. Sullivan**, Y. Wu, and J.L. Collett, Jr., Molecular Characterization of Water-Soluble Brown Carbon Chromophores in Beijing, China, *J. Geophys. Res.*, *125*, doi:10.1029/2019JD032018, 2020.
- Benedict, K.B., Y. Zhou, B.C. Sive, A.J. Prenni, K.A. Gebhart, E.V. Fischer, A. Evanoski-Cole, **A.P. Sullivan**, S. Callahan, B.A. Schichtel, H. Mao, Y. Zhao, and J.L. Collett, Jr., Volatile organic compounds and ozone in Rocky Mountain National Park during FRAPPÉ, *Atmos. Chem. Phys.*, *19*, 499-521, acp-19-499-2019, 2019.
- Bilsback, K.R., J. Dahlke, K.M. Fedak, N. Good, A. Hecobian, P. Herckes, C. L'Orange, J. Mehaffy, **A. Sullivan**, J. Tryner, L. Van Zyl, E.S. Walker, Y. Zhou, J.R. Pierce, A. Wilson, J.L. Peel, and J. Volckens, A Laboratory Assessment of 120 Air Pollutant Emissions from Biomass and Fossil Fuel Cookstoves, *Environ. Sci. Technol.*, *53*, 7114-7125, 2019.
- Haskins, J.D., F.D. Lopez-Hilfiker, B.H. Lee, V. Shah, G.M. Wolfe, J. DiGangi, D. Fibiger, E.E. McDuffie, P. Veres, J.C. Schroder, P. Campuzano-Jost, D.A. Day, J.L. Jimenez, A. Weinheimer, T. Sparks, R.C. Cohen, T. Campos, **A. Sullivan**, H. Guo, R. Weber, J. Dibb, J. Green, M. Fiddler, S. Bililign, L. Jaeglé, S.S. Brown, and J.A. Thornton, Anthropogenic Control Over Wintertime Oxidation of Atmospheric Pollutants, *Geophys. Res. Lett.*, *46*, 10.1029/2019GL085498, 2019.
- Sullivan, A.P.**, H. Guo, J.C. Schroder, P. Campuzano-Jost, J.L. Jimenez, T. Campos, V. Shah, L. Jaeglé, B.H. Lee, F.D. Lopez-Hilfiker, J.A. Thornton, S.S. Brown, and R.J. Weber, Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign, *J. Geophys. Res.*, *124*, doi:10.1029/2017JD028153, 2019.
- Van Zyl, L., J. Tryner, K.R. Bilsback, N. Good, A. Hecobian, **A. Sullivan**, Y. Zhou, J.L. Peel, and J. Volckens, Effects of Fuel Moisture Content on Emissions from a Rocket-Elbow Cookstove, *Environ. Sci. Technol.*, *53*, 4648-4656, 2019.
- Benedict, K.B., A.J. Prenni, **A.P. Sullivan**, A.R. Evanoski-Cole, E.V. Fischer, S. Callahan, B.C. Sive, Y. Zhou, B.A. Schichtel, J.L. Collett, Jr., Impact of Front Range sources on reactive nitrogen concentrations and deposition in Rocky Mountain National Park, *Peer J*, *6*, e4759, doi:10.7717/peerj.4759, 2018.
- Fedak, K.M., N. Good, J. Dahlke, A. Hecobian, **A. Sullivan**, Y. Zhou, J.L. Peel, and J. Volckens, Chemical Composition and Emissions Factors for Cookstove Startup (Ignition) Materials, *Environ. Sci. Technol.*, *52*, 9505-9513, 2018.
- Gomez, S.L., C.M. Carrico, C. Allen, J. Lam, S. Dabli, **A.P. Sullivan**, A.C. Aiken, T. Rahn, D. Romonosky, P. Chylek, S. Sevanto, and M.K. Dubey, Southwestern U.S. Biomass Burning Smoke Hygroscopicity: The Role of Plant Phenology, Chemical Composition, and Combustion Properties, *J. Geophys. Res.*, *123*, 5416-5432, doi:10.1029/2017JD028162, 2018.
- Haskins, J.D., L. Jaeglé, V. Shah, B.H. Lee, F.D. Lopez-Hilfiker, P. Campuzano-Jost, J.C. Schroder, D.A. Day, H. Guo, **A.P. Sullivan**, R. Weber, J. Dibb, T. Campos, J.L. Jimenez, S.S. Brown, and J.A. Thornton, Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chloride in the Lower Troposphere Over the Northeast United States and Coastal Ocean, *J. Geophys. Res.*, *123*, 10.1029/2018JD028786, 2018.
- Jaeglé, L., V. Shah, J.A. Thornton, F.D. Lopez-Hilfiker, B.H. Lee, E.E. McDuffie, D. Fibiger, S.S. Brown, P. Veres, T.L. Sparks, C.J. Ebben, P.J. Wooldridge, H.S. Kenagy, R.C. Cohen, A.J. Weinheimer, T.L. Campos, D.D. Montzka, J.P. Digangi, G.M. Wolfe, T. Hanisco, J.C. Schroder, P. Campuzano-Jost, D.A. Day, J.L. Jimenez, **A.P. Sullivan**, H. Guo, and R.J. Weber, Nitrogen Oxides Emissions,

- Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign, *J. Geophys. Res.*, *123*, doi:10.1029/2018JD029133, 2018.
- Nah, T., H. Guo, **A.P. Sullivan**, Y. Chen, D.J. Tanner, A. Nenes, A. Russell, N.L. Ng, L.G. Huey, and R. J. Weber, Characterization of Aerosol Composition, Aerosol Acidity, and Organic Acid Partitioning at an Agriculturally Intensive Rural Southeastern US Site, *Atmos. Chem. Phys.*, *18*, 11471-11491, doi:10.5194/acp-18-11471-2018, 2018.
- Schroder, J.C., P. Campuzano-Jost, D.A. Day, V. Shah, K. Larson, J.M. Sommers, **A.P. Sullivan**, T. Campos, J.M. Reeves, A. Hills, R.S. Hornbrook, N.J. Blake, E. Scheuer, H. Guo, D.L. Fibiger, E.E. McDuffie, P.L. Hayes, R. J. Weber, J.E. Dibb, E. C. Apel, L. Jaeglé, S.S. Brown, J.A. Thornton, and J.L. Jimenez, Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER, *J. Geophys. Res.*, *123*, 7771-7796, doi:10.1029/2018JD028475, 2018.
- Shah, V., L. Jaeglé, J.A. Thornton, F.D. Lopez-Hilfiker, B.H. Lee, J.C. Schroder, P. Campuzano-Jost, J.L. Jimenez, H. Guo, **A.P. Sullivan**, R.J. Weber, J.R. Green, M.N. Fiddler, S. Bililign, T.L. Campos, M. Stell, A.J. Weinheimer, D.D. Montzka, and S.S. Brown, Chemical Feedbacks Weaken the Wintertime Response of Particulate Sulfate and Nitrate to Emissions Reductions Over the Eastern U.S., *Proceedings of the National Academy of Sciences*, *115*(32), 8110-8115, doi:10.1073/pnas.1803295115, 2018.
- Yan, C., M. Zheng, **A.P. Sullivan**, G. Shen, Y. Chen, S. Wang, B. Zhao, S. Cai, Y. Desyaterik, X. Li, T. Zhou, Ö. Gustafsson, and J.L. Collett, Jr., Residential Coal Combustion as a Source of Levoglucosan in China, *Environ. Sci. Technol.*, *52*, 1665-1674, 2018.
- Benedict, K.B., A.J. Prenni, C.M. Carrico, **A.P. Sullivan**, B.A. Schichtel, and J.L. Collett, Jr., Enhanced concentrations of reactive nitrogen species in wildfire smoke, *Atmos. Environ.*, *148*, 8-15, 2017.
- Evanoski, A.R., K.A. Gebhart, B.C. Sive, Y. Zhou, S.L. Capps, D.E. Day, A.J. Prenni, M.I. Schurman, **A.P. Sullivan**, Y. Li, J.L. Hand, B.A. Schichtel, and J.L. Collett, Jr., Composition and Sources of Winter Haze in the Bakken Oil and Gas Extraction Region, *Atmos. Environ.*, *156*, 77-87, 2017.
- Landis, M.S., E.S. Edgerton, E.M. White, G.R. Wentworth, **A.P. Sullivan**, and A.M. Dillner, The impact of the 2016 Fort McMurray Horse River Wildfire on ambient air pollution levels in the Athabasca Oil Sands Region, Alberta, Canada, *Science of the Total Environment*, *618*, 1665-1676, 2017.
- Li, Y., T.M. Thompson, M. Van Damme, X. Chen, K.B. Benedict, Y. Shao, D. Day, A. Boris, **A.P. Sullivan**, J. Ham, S. Whitburn, L. Clarisse, P.-F. Coheur, and J.L. Collett, Jr., Temporal and Spatial Variability of Ammonia in Urban and Agricultural Regions of Northern Colorado, United States, *Atmos. Chem. Phys.*, *17*, 6197-6213, doi:10.5194/acp-17-6197-2017, 2017.
- Yan, C., M. Zheng, C. Bosch, A. Andersson, Y. Desyaterik, **A.P. Sullivan**, J.L. Collett, Jr., B. Zhao, S. Wang, K. He, and Ö. Gustafsson, Important fossil source contribution to brown carbon in Beijing during winter, *Sci. Rep.*, *7*, 43182, doi:10.1038/srep43182, 2017.
- Fukami, C.S., **A.P. Sullivan**, S.R. Fulgham, T. Murschell, T. Borch, J.N. Smith, and D.K. Farmer, Technical note: An improved approach to determining background aerosol concentrations with PILS sampling on aircraft, *Atmos. Environ.*, *136*, 16-20, 2016.
- Guo, H., **A.P. Sullivan**, P. Campuzano-Jost, J.C. Schroder, F.D. Lopez-Hilfiker, J.E. Dibb, J.L. Jimenez, J.A. Thornton, S.S. Brown, A. Nenes, and R.J. Weber, Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States, *J. Geophys. Res.*, *Atmos.*, *121*, 10355-10376, doi:10.1002/2016JD025311, 2016.
- Hecobian, A., A. Evanoski-Cole, A. Eiguren-Fernandez, **A.P. Sullivan**, G.S. Lewis, S.V. Hering, and J.L. Collett, Jr., Evaluation of a Sequential Spot Sampler (S3) for time-resolved measurement of PM<sub>2.5</sub> sulfate and nitrate through lab and field measurements, *Atmos. Meas. Tech.*, *9*, 525-533, doi:10.5194/amt-9-525-2016, 2016.
- Prenni, A.J., D.E. Day, A.R. Evanoski-Cole, B.C. Sive, A. Hecobian, Y. Zhou, K.A. Gebhart, J.L. Hand, **A.P. Sullivan**, Y. Li, M.I. Schurman, Y. Desyaterik, W.C. Malm, J.L. Collett, Jr., and B.A. Schichtel, Oil and gas impacts on air quality in federal lands in the Bakken region: an overview of the Bakken Air Quality Study and first results, *Atmos. Chem. Phys.*, *16*, 1401-1416, doi:10.5194/acp-16-1401-2016, 2016.
- Sullivan, A.P.**, N. Hodas, B.J. Turpin, K. Skog, F.N. Keutsch, S. Gilardoni, M. Paglione, M. Rinaldi, S. Decesari, M.C. Facchini, L. Poulain, H. Herrmann, A. Wiedensohler, E. Nemitz, M.M. Twigg, and J.L. Collett, Jr., Evidence for Ambient Dark Aqueous SOA Formation in the Po Valley, Italy, *Atmos. Chem. Phys.*, *16*, 8095-8108, doi:10.5194/acp-16-8095-2016, 2016.
- Wang, H., J. An, M. Cheng, L. Shen, B. Zhu, Y. Li, Y. Wang, Q. Duan, **A. Sullivan**, and L. Xia, One year online measurements of water-soluble ions at the industrially polluted town of Nanjing, China: Sources, seasonal and diurnal variations, *Chemosphere*, *148*, 526-536, 2016.
- Hennigan, C.J., J. Izumi, **A.P. Sullivan**, R.J. Weber, and A. Nenes, A critical evaluation of proxy methods used to estimate the acidity of atmospheric particles, *Atmos. Chem. Phys.*, *15*, 2775-2790, doi:10.5194/acp-15-2775-2015, 2015.
- May, A.A., T. Lee, G.R. McMeeking, S. Akagi, **A.P. Sullivan**, S. Urbanski, R.J. Yokelson, and S.M. Kreidenweis, Observations and Analysis of Organic Aerosol Evolution in Some Prescribed Fire Smoke Plumes, *Atmos. Chem. Phys.*, *15*, 6323-6335, doi:10.5194/acp-15-6323-2015, 2015.
- Tzompa-Sosa, Z.A., **A.P. Sullivan**, and S.M. Kreidenweis, Contribution of Biomass Burning to Carbonaceous Aerosols in Mexico City during May 2013, *Aerosol and Air Quality Research*, *16*, 114-214, doi:10.4209/aaqr.2015.01.0030, 2015.
- Yan, C., M. Zheng, **A.P. Sullivan**, C. Bosch, Y. Desyaterik, A. Andersson, X. Li, Z. Guo, T. Zhou, Ö. Gustafsson, and J.L. Collett, Jr., Chemical Characteristics and Light-Absorbing Property of Water-Soluble Organic Carbon in Beijing: Biomass Burning Contributions, *Atmos. Environ.*, *121*, 4-12, 2015.
- Hodas, N., **A.P. Sullivan**, K. Skog, F.N. Keutsch, J.L. Collett, Jr., S. Decesari, M.C. Facchini, A.G. Carlton, A. Laaksonen, and B.J. Turpin, Aerosol Liquid Water Driven by Anthropogenic Nitrate: Implications for Lifetimes of Water-Soluble Organic Gases and Potential for Secondary Organic Aerosol Formation, *Environ. Sci. Technol.*, *48*, 11127-11136, 2014.

- Jolleys, M.D., H. Coe, G. McFiggans, G.R. McMeeking, T. Lee, S.M. Kreidenweis, J.L. Collet, Jr., and **A.P. Sullivan**, Organic Aerosol Emission Ratios from Laboratory Combustion of Biomass Fuels, *J. Geophys. Res.*, *119*, 12850-12871, doi:10.1002/2014JD021589, 2014.
- May, A.A., G.R. McMeeking, T. Lee, J.W. Taylor, J.S. Craven, I. Burling, **A.P. Sullivan**, S. Akagi, J.L. Collett, Jr., M. Flynn, H. Coe, S. Urbanski, J.H. Seinfeld, R.J. Yokelson, and S.M. Kreidenweis, Aerosol emissions from prescribed fires in the United States: A synthesis of laboratory and aircraft measurements, *J. Geophys. Res.*, *119*, 11826-11849, doi:10.1002/2014JD021848, 2014.
- McCluskey, C.S., P.J. DeMott, A.J. Prenni, E.J.T. Levin, G.R. McMeeking, **A.P. Sullivan**, T.C.J. Hill, S. Nakao, C.M. Carrico, and S.M. Kreidenweis, Characteristics of atmospheric ice nucleating particles associated with biomass burning in the US: prescribed burns and wildfires, *J. Geophys. Res.*, *119*, 10458-10470, doi:10.1002/2014JD021980, 2014.
- Prenni, A.J., E.J.T. Levin, K.B. Benedict, **A.P. Sullivan**, M.I. Schurman, K.A. Gebhart, D.E. Day, C.M. Carrico, W.C. Malm, B.A. Schichtel, J.L. Collett, Jr., and S.M. Kreidenweis, Gas-phase reactive nitrogen near Grand Teton National Park: Impacts of transport, anthropogenic emissions, and biomass burning, *Atmos. Environ.*, *89*, 749-756, 2014.
- Sullivan, A.P.**, A.A. May, T. Lee, G.R. McMeeking, S.M. Kreidenweis, S.K. Akagi, R.J. Yokelson, S.P. Urbanski, and J.L. Collett, Jr., Airborne-Based Source Smoke Marker Ratios from Prescribed Burning, *Atmos. Chem. Phys.*, *14*, 10535-10545, doi:10.5194/acp-14-10535-2014, 2014.
- Akagi, S.K., R.J. Yokelson, I.R. Burling, S. Meinardi, I. Simpson, D.R. Blake, G.R. McMeeking, **A. Sullivan**, T. Lee, S. Kreidenweis, S. Urbanski, J. Reardon, D.W.T. Griffith, T.J. Johnson, and D.R. Weise, Measurements of reactive trace gases and variable O<sub>3</sub> formation rates in some South Carolina biomass burning plumes, *Atmos. Chem. Phys.*, *13*, 1141-1165, doi:10.5194/acp-13-1141-2013, 2013.
- Benedict, K.B., X. Chen, **A.P. Sullivan**, Y. Li, D. Day, A.J. Prenni, E.J.T. Levin, S.M. Kreidenweis, W.C. Malm, B.A. Schichtel, and J.L. Collett, Jr., Atmospheric Concentrations and Deposition of Reactive Nitrogen in Grand Teton National Park, *J. Geophys. Res.*, *118*, 11875-11887, doi:10.1002/2013JD020394, 2013.
- Prenni, A.J., P.J. DeMott, **A.P. Sullivan**, R.C. Sullivan, S.M. Kreidenweis, and D.C. Rogers, Biomass burning as a potential source for atmospheric ice nuclei: Western wildfires and prescribed burns, *Geophys. Res. Lett.*, *39*, L11805, doi:10.1029/2012GL051915, 2012.
- Bowers, R.M., **A.P. Sullivan**, E.K. Costello, J.L. Collett Jr., R. Knight, and N. Fierer, Sources of Bacteria in Outdoor Air across Cities in the Midwestern United States, *Appl. Environ. Microbiol.*, *77*, 6350-6356, doi:10.1128/AEM.05498-11, 2011.
- Hennigan, C.J., M.A. Miracolo, G.J. Engelhart, A.A. May, A.A. Presto, T. Lee, **A.P. Sullivan**, G.R. McMeeking, H. Coe., C.E. Wold, W.-M. Hao, J.B. Gilman, W.C. Kuster, J. de Gouw, B.A. Schichtel, J.L. Collett Jr., S.M. Kreidenweis, and A.L. Robinson., Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber, *Atmos. Chem. Phys.*, *11*, 7669-7686, 2011.
- Holden, A.S., **A.P. Sullivan**, L.A. Munchak, S.M. Kreidenweis, B.A. Schichtel, W.C. Malm, and J.L. Collett, Jr., Determining contributions of biomass burning and other sources to fine particle contemporary carbon in the western United States, *Atmos. Environ.*, *45*, 1986-1993, 2011.
- Hoyle, C.R., M. Boy, N.M. Donahue, J.L. Fry, M. Glasius, A. Guenther, A.G. Hallar, K. Huff Hartz, M.D. Petters, T. Petäjä, T. Rosenoern, and **A.P. Sullivan**, A review of the anthropogenic influence on biogenic secondary organic aerosol, *Atmos. Chem. Phys.*, *11*, 321-343, doi:10.5194/acp-11-321-2011, 2011.
- Sullivan, A.P.**, N. Frank, G. Onstad, C.D. Simpson, and J.L. Collett Jr., Application of High-Performance Anion-Exchange Chromatography – Pulsed Amperometric Detection for Measuring Carbohydrates in Routine Daily Filter Samples Collected by a National Network: 1. Determination of the Impact of Biomass Burning in the Upper Midwest, *J. Geophys. Res.*, *116*, D08302, doi:10.1029/2010JD014166, 2011.
- Sullivan, A.P.**, N. Frank, D.M. Kenski, and J.L. Collett Jr., Application of High-Performance Anion-Exchange Chromatography – Pulsed Amperometric Detection for Measuring Carbohydrates in Routine Daily Filter Samples Collected by a National Network: 2. Examination of Sugar Alcohols/Polyols, Sugars, and Anhydrosugars in the Upper Midwest, *J. Geophys. Res.*, *116*, D08303, doi:10.1029/2010JD014169, 2011.
- Beem, K.B., S. Raja, F.M. Schwandner, C. Taylor, T. Lee, **A.P. Sullivan**, C.M. Carrico, G. R. McMeeking, D. Day, E. Levin, J. Hand, S.M. Kreidenweis, B. Schichtel, W.C. Malm, and J.L. Collett Jr., Deposition of reactive nitrogen during the Rocky Mountain Airborne Nitrogen and Sulfur (RoMANS) study, *Environmental Pollution*, *158*, 862-872, 2010.
- Carrico, C.M., M.D. Petters, S.M. Kreidenweis, **A.P. Sullivan**, G.R. McMeeking, E.J.T. Levin, G. Engling, W.C. Malm, and J.L. Collett Jr., Water uptake and chemical composition of fresh aerosols generated in open burning of biomass, *Atmos. Chem. Phys.*, *10*, 5165-5178, 2010.
- Hennigan, C.J., **A.P. Sullivan**, J.L. Collett, and A.L. Robinson, Levoglucosan stability in biomass burning particles exposed to hydroxyl radicals, *Geophys. Res. Lett.*, *37*, L09806, doi:10.1029/2010GL043088, 2010.
- Lee, T., **A.P. Sullivan**, L. Mack, J.L. Jimenez, S.M. Kreidenweis, T.B. Onasch, D.R. Worsnop, W. Malm, C.E. Wold, W.M. Hao, and J.L. Collett, Jr., Chemical smoke marker emissions during flaming and smoldering phases of laboratory open burning of wildland fuels, *Aerosol Res. Lett.*, *44*, i-v, 2010.
- Mack, L.A., E.J.T. Levin, S.M. Kreidenweis, D. Obrist, H. Moosmüller, K.A. Lewis, W.P. Arnott, G.R. McMeeking, **A.P. Sullivan**, C.E. Wold, W.-M. Hao, J.L. Collett, Jr., and W. C. Malm, Optical closure experiments for biomass smoke aerosols, *Atmos. Chem. Phys.*, *10*, 9017-9026, 2010.

- Munchak, L.A., B.A. Schichtel, **A.P. Sullivan**, A.S. Holden, S.M. Kreidenweis, W.C. Malm, and J.L. Collett, Jr., Development of wildland fire particulate smoke marker to organic carbon emission ratios for the conterminous United States, *Atmos. Environ.*, doi:10.1016/j.atmosenv.2010.10.006, 2010.
- Padró, L.T., D. Tkacik, T. Lathem, C.J. Hennigan, **A.P. Sullivan**, R.J. Weber, L.G. Huey, and A. Nenes, Investigation of cloud condensation nuclei properties and droplet growth kinetics of the water-soluble aerosol fraction in Mexico City, *J. Geophys. Res.*, *115*, D09204, doi:10.1029/2009JD013195, 2010.
- de Gouw, J.A., D. Welsh-Bon, C. Warneke, W.C. Kuster, L. Alexander, A.K. Baker, A.J. Beyersdorf, D.R. Blake, M. Canagaratna, L.G. Huey, W. Junkerman, T.B. Onasch, A. Salcido, S.J. Sjostedt, **A.P. Sullivan**, D.J. Tanner, O. Vargas, R.J. Weber, D.R. Worsnop, X.Y. Yu, and R. Zaveri, Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study, *Atmos. Chem. Phys.*, *9*, 3425-3442, 2009.
- Fountoukis, C., A. Nenes, **A. Sullivan**, R. Weber, T. Van Reken, M. Fischer, E. Matías, M. Moya, D. Farmer, and R.C. Cohen, Thermodynamic characterization of Mexico City aerosol during MILAGRO 2006, *Atmos. Chem. Phys.*, *9*, 2141-2156, 2009.
- Malm, W.C., G.R. McMeeking, S.M. Kreidenweis, E. Levin, C.M. Carrico, D.E. Day, J.L. Collett, Jr., T. Lee, **A.P. Sullivan**, and S. Raja, Using High Time Resolution Aerosol and Number Size Distribution Measurements to Estimate Atmospheric Extinction, *JAWMA*, *59*, 1049-1060, doi:10.3155/1047-3289.59.9.1049, 2009.
- McMeeking, G.R., S.M. Kreidenweis, S. Baker, C.M. Carrico, J.C. Chow, J.L. Collett, Jr., W.M. Hao, A.S. Holden, T.W. Kirchstetter, W.C. Malm, H. Moosmüller, **A.P. Sullivan**, and C.E. Wold, Emissions of trace gases and aerosols during the open combustion of biomass in the laboratory, *J. Geophys. Res.*, *114*, D19210, doi:10.1029/2009JD011836, 2009.
- Petters, M.D., M.T. Parsons, A.J. Prenni, P.J. DeMott, S.M. Kreidenweis, C.M. Carrico, **A.P. Sullivan**, G.R. McMeeking, E. Levin, C.E. Wold, J.L. Collett, Jr., and H. Moosmüller, Ice nuclei emissions from biomass burning, *J. Geophys. Res.*, *114*, D07209, doi:10.1029/2008JD011532, 2009.
- Yan, B., M. Zheng, Y. Hu, X. Ding, **A. Sullivan**, R. Weber, J. Baek, E. Edgerton, and A. Russell, Roadside, Urban and Rural Comparison of Primary and Secondary Organic Molecular Markers in Ambient PM<sub>2.5</sub>, *Environ. Sci. Technol.*, *43*, 4287-4293, 2009.
- Asa-Awuku, A., **A.P. Sullivan**, C.J. Hennigan, R.J. Weber, and A. Nenes, Investigation of molar volume and surfactant characteristics of water-soluble organic compounds in biomass burning aerosol, *Atmos. Chem. Phys.*, *8*, 799-812, 2008.
- Brock, C.A., **A.P. Sullivan**, R.E. Peltier, R.J. Weber, A. Wollny, J.A. de Gouw, A.M. Middlebrook, E.L. Atlas, A. Stohl, M.K. Trainer, O.R. Cooper, F.C. Fehsenfeld, G.J. Frost, J.S. Holloway, G. Hübler, J.A. Neuman, T.B. Ryerson, C. Warneke, and J.C. Wilson, Sources of Particulate Matter in the Northeastern United States in Summer: 2. Evolution of Chemical and Microphysical Properties, *J. Geophys. Res.*, *113*, D08302, doi:10.1029/2007JD009241, 2008.
- de Gouw, J.A., C.A. Brock, E.L. Atlas, T.S. Bates, F.C. Fehsenfeld, P.D. Goldan, J.S. Holloway, W.C. Kuster, B.M. Lerner, B.M. Matthew, A.M. Middlebrook, T.B. Onasch, R.E. Peltier, P.K. Quinn, C.J. Senff, A. Stohl, **A.P. Sullivan**, M. Trainer, C. Warneke, R.J. Weber, and E.J. Williams, Sources of Particulate Matter in the Northeastern United States in Summer: 1. Direct Emissions and Secondary Formation of Organic Matter in Urban Plumes, *J. Geophys. Res.*, *113*, D08301, doi:10.1029/2007JD009243, 2008.
- Hennigan, C.J., **A.P. Sullivan**, C.I. Fountoukis, A. Nenes, A. Hecobian, O. Vargas, R.E. Peltier, A.T. Case Hanks, L.G. Huey, B.L. Lefer, A.G. Russell, and R.J. Weber, On the volatility and production mechanisms of newly formed nitrate and water soluble organic aerosol in Mexico City, *Atmos. Chem. Phys.*, *8*, 3761-3768, 2008.
- Stone, E.A., D.C. Snyder, R.J. Sheesley, **A.P. Sullivan**, R.J. Weber, and J.J. Schauer, Source apportionment of fine organic aerosol in Mexico City during the MILAGRO experiment 2006, *Atmos. Chem. Phys.*, *8*, 1249-1259, 2008.
- Sullivan, A.P.**, A.S. Holden, L.A. Patterson, G.R. McMeeking, S.M. Kreidenweis, W.C. Malm, W.M. Hao, C.E. Wold, and J.L. Collett Jr., A Method for Smoke Marker Measurements and its Potential Application for Determining the Contribution of Biomass Burning from Wildfires and Prescribed Fires to Ambient PM<sub>2.5</sub> Organic Carbon, *J. Geophys. Res.*, *113*, D22302, doi:10.1029/2008JD010216, 2008.
- Greenwald, R., M.H. Bergin, R. Weber, and **A. Sullivan**, Size-resolved, real-time measurement of water-insoluble aerosols in metropolitan Atlanta during the summer of 2004, *Atmos. Environ.*, *41*, 519-531, 2007.
- Peltier, R.E., **A.P. Sullivan**, R. J. Weber, C.A. Brock, A.G. Wollny, J.S. Holloway, J.A. de Gouw, and C. Warneke, Fine aerosol bulk composition measured on WP-3D research aircraft in vicinity of the Northeastern United States – results from NEAQS, *Atmos. Chem. Phys.*, *7*, 3231-3247, 2007.
- Peltier, R.E., **A.P. Sullivan**, R.J. Weber, A.G. Wollny, J.S. Holloway, C.A. Brock, J.A. de Gouw, and E.L. Atlas, No evidence for acid-catalyzed secondary organic aerosol formation in power plant plumes over metropolitan Atlanta, Georgia, *Geophys. Res. Lett.*, *34*, L06801, doi:10.1029/2006GL028780, 2007.
- Peltier, R.E., R.J. Weber, and **A.P. Sullivan**, Investigating a Liquid-Based Method for Online Organic Carbon Detection in Atmospheric Particle, *Aerosol Sci. Technol.*, *41*, 1117-1127, 2007.
- Weber, R.J., **A.P. Sullivan**, R.E. Peltier, A. Russell, B. Yan, M. Zheng, J. de Gouw, C. Warneke, C. Brock, J.S. Holloway, E.L. Atlas, and E. Edgerton, A study of secondary organic aerosol formation in the anthropogenic-influenced southeastern United States, *J. Geophys. Res.*, *112*, D13302, doi:10.1029/2007JD008408, 2007.
- Brown, S.S., T.B. Ryerson, A.G. Wollny, C.A. Brock, R. Peltier, **A.P. Sullivan**, R.J. Weber, W.P. Dubé, M. Trainer, J.F. Meagher, F.C. Fehsenfeld, and A.R. Ravishankara, Variability in Nocturnal Nitrogen Oxide Processing and Its Role in Regional Air Quality, *Science*, *311*, 67-70, 2006.

- Heald, C.L., D.J. Jacob, S. Turquety, R.C. Hudman, R.J. Weber, **A.P. Sullivan**, R.E. Peltier, E.L. Atlas, J.A. de Gouw, C. Warneke, J.S. Holloway, J.A. Neuman, F.M. Flocke, and J.H. Seinfeld, Concentrations and sources of organic carbon aerosols in the free troposphere over North America, *J. Geophys. Res.*, *111*, D23S47, doi:10.1029/2006JD007705, 2006.
- Murphy, D.M., D.J. Cziczo, K.D. Froyd, P.K. Hudson, B.M. Matthew, A.M. Middlebrook, R.E. Peltier, **A. Sullivan**, D.S. Thomson, and R.J. Weber, Single-particle mass spectroscopy of tropospheric aerosol particles, *J. Geophys. Res.*, *111*, D23S32, doi:10.1029/2006JD00734, 2006.
- Nowak, J.B., L.G. Huey, A.G. Russell, D. Tian, J.A. Neuman, D. Orsini, S.J. Sjostedt, **A.P. Sullivan**, D.J. Tanner, R.J. Weber, A. Nenes, E. Edgerton, and F.C. Fehsenfeld, Analysis of urban gas phase ammonia measurements from the 2002 Atlanta Aerosol Nucleation and Real-Time Characterization Experiment (ANARChE), *J. Geophys. Res.*, *111*, doi:10.1029/2006JD007113, 2006.
- Sannigrahi, P., **A.P. Sullivan**, R.J. Weber, and E.D. Ingall, Characterization of water-soluble organic carbon in urban atmospheric aerosols using <sup>13</sup>C NMR spectroscopy, *Environ. Sci. Technol.*, *40*, 666-672, 2006.
- Sullivan, A.P.**, R.E. Peltier, C.A. Brock, J.A. de Gouw, J.S. Holloway, C. Warneke, A.G. Wollny, and R.J. Weber, Airborne measurements of carbonaceous aerosol soluble in water over northeastern United States: Method development and an investigation into water-soluble organic carbon sources, *J. Geophys. Res.*, *111*, D23S46, doi:10.1029/2006JD007072, 2006.
- Sullivan, A.P.** and R.J. Weber, Chemical characterization of the ambient organic aerosol soluble in water: 1. Isolation of hydrophobic and hydrophilic fractions with a XAD-8 resin, *J. Geophys. Res.*, *111*, D05314, doi:10.1029/2005JD006485, 2006.
- Sullivan, A.P.** and R.J. Weber, Chemical characterization of the ambient organic aerosol soluble in water: 2. Isolation of acid, neutral, and basic fractions by modified size-exclusion chromatography, *J. Geophys. Res.*, *111*, D05315, doi:10.1029/2005JD006486, 2006.
- Chen, G., L.G. Huey, M. Trainer, D. Nicks, J. Corbett, T. Ryerson, D. Parrish, J.A. Neuman, J. Nowak, D. Tanner, J. Holloway, C. Brock, J. Crawford, J.R. Olson, **A. Sullivan**, R. Weber, S. Schauffler, S. Donnelly, E. Atlas, J. Roberts, F. Flocke, G. Hübler, and F. Fehsenfeld, An investigation of the chemistry of ship emission plumes during ITCT 2002, *J. Geophys. Res.*, *110*, D10S90, doi:10.1029/2004JD005236, 2005.
- Brock, C.A., P.K. Hudson, E.R. Lovejoy, **A. Sullivan**, J.B. Nowak, L.G. Huey, O.R. Copper, D.J. Cziczo, J. de Gouw, F.C. Fehsenfeld, J.S. Holloway, G. Hübler, B.G. LaFleur, D.M. Murphy, J.A. Neuman, D.K. Nicks, Jr., D.A. Orsini, D.D. Parrish, T.B. Ryerson, D.J. Tanner, C. Warneke, R.J. Weber, and J.C. Wilson, Particle characteristics following cloud-modified transport from Asia to North America, *J. Geophys. Res.*, *109*, D23S26, doi:10.1029/2003JD004198, 2004.
- Millet, D.B., A.H. Goldstein, J. Allan, T.S. Bates, H. Boudries, K.N. Bower, H. Coe, Y. Ma, M. McKay, P.K. Quinn, **A. Sullivan**, R.J. Weber, and D.R. Worsnop, VOC measurements at Trinidad Head, CA during ITCT 2K2: Analysis of sources, atmospheric composition and aerosol residence times, *J. Geophys. Res.*, *109*, D23S16, doi:10.1029/2003JD004026, 2004.
- Sullivan, A.P.**, R.J. Weber, A.L. Clements, J.R. Turner, M.S. Bae, and J.J. Schauer, A method for on-line measurement of water-soluble organic carbon in ambient aerosol particles: Recent results from an urban site, *Geophys. Res. Lett.*, *31*, L13105, doi:10.1029/2004GL019681, 2004.
- Neuman, J.A., J.B. Nowak, C.A. Brock, M. Trainer, F.C. Fehsenfeld, J.S. Holloway, G. Hübler, P.K. Hudson, D.M. Murphy, D.K. Nicks, Jr., D. Orsini, D.D. Parrish, T.B. Ryerson, D.T. Sueper, **A. Sullivan**, and R. Weber, Variability in ammonium nitrate formation and nitric acid depletion with altitude and location over California, *J. Geophys. Res.*, *108(D17)*, 4557, doi:10.1029/2003JD003616, 2003.
- Orsini, D., Y. Ma, **A. Sullivan**, B. Sierau, K. Baumann, and R. Weber, Refinements to the Particle-into-Liquid Sampler (PILS) for Ground and Airborne Measurements of Water-Soluble Aerosol Composition, *Atmos. Environ.*, *37*, 1243-1259, 2003.

#### First Author Presentations and Posters

- Sullivan, A.P.**, K.B. Benedict, B.A. Schichtel, and J.L. Collett, Jr., Evaluation of Filtering and Storage on the Stability of Nitrogen Species in Precipitation Samples, *Presentation Spring TDep Meeting*, 2021.
- Sullivan, A.P.**, S.M. Kreidenweis, E.V. Fischer, B.A. Schichtel, and J.L. Collett, Jr., Examination of Smoke Marker Ratios from Wildfires, *Presentation Fall AAAR Meeting*, 2021.
- Sullivan, A.P.**, R.P. Pokhrel, Y. Shen, S.M. Murphy, D.W. Toohey, T. Campos, J. Lindaas, E.V. Fischer, and J.L. Collett, Jr., Examination of Brown Carbon Absorption from Wildfires in the Western U.S. During the WE-CAN Study, *Presentation Fall AAAR Meeting*, 2020.
- Sullivan, A.P.**, K.B. Benedict, C.M. Carrico, M.V. Dubey, B.A. Schichtel, and J.L. Collett, Jr., A Method to Measure and Speciate Amines in Ambient Aerosol Samples, *Presentation Fall NADP Meeting*, 2020.
- Sullivan, A.P.**, J. Lindaas, E.V. Fischer, T. Campos, and J.L. Collett, Jr., Examination of Airborne-Based Smoke Marker Ratios from Wildfires in the Western U.S. During the WE-CAN Study, *Presentation AMS Meeting*, 2019.
- Sullivan, A.P.**, J. Lindaas, E.V. Fischer, L. Garofalo, D. Farmer, S.K. Kreidenweis, T. Campos, and J.L. Collett, Jr., Investigation of Airborne-Based Smoke Marker Ratios and Brown Carbon from Wildfires in the Western U.S. During the WE-CAN Study, *Presentation Fall AAAR Meeting*, 2019.
- Sullivan, A.P.**, K.B. Benedict, and J.L. Collett, Jr., A Quantitative Method to Measure and Speciate Amines in Ambient Aerosol Samples, *Presentation IAC/Fall AAAR Meeting*, 2018.
- Sullivan, A.P.**, H. Guo, J. Schroder, P. Campuzano-Jost, J.L. Jimenez, T. Campos, J.A. Thornton, S.S. Brown, and R.J. Weber, Comparison of Airborne-Based Measurements of Biomass Burning Markers Levoglucosan and Aerosol Mass Spectrometer *m/z* 60 and the Role of Residential Burning During the WINTER Campaign, *Presentation Fall AAAR Meeting*, 2017.

- Sullivan, A.P.**, H. Guo, J. Schroder, P. Campuzano-Jost, J.L. Jimenez, T. Campos, J.A. Thornton, S.S. Brown, and R.J. Weber, Airborne-Based Levoglucosan Measurements and the Role of Biomass Burning During the WINTER Campaign, *Presentation Fall AAAR Meeting*, 2016.
- Sullivan, A.P.**, N. Hodas, B.J. Turpin, K. Skog, F.N. Keutsch, S. Gilardoni, M. Paglione, M. Rinaldi, S. Decesari, M.C. Facchini, L. Poulain, H. Herrmann, A. Wiedensohler, E. Nemitz, M.M. Twigg, and J.L. Collett, Jr., Evidence of Ambient Dark Aqueous SOA Formation in the Po Valley, Italy, *Presentation Fall AAAR Meeting*, 2015.
- Sullivan, A.P.**, Y. Li, M. Tigges, C. Archuleta, and J.L. Collett, Jr., Long-term Observations of Ammonia, Nitric Acid, Ammonium, and Nitrate in a Rural Gas Production Region, *Poster Fall AAAR Meeting*, 2015.
- Sullivan, A.P.**, N. Hodas, B.J. Turpin, K. Skog, F.N. Keutsch, S. Gilardoni, M. Rinaldi, S. Decesari, M.C. Facchini, L. Poulain, E. Nemitz, M.M. Twigg, and J.L. Collett, Jr., Evidence of Ambient Aqueous SOA Formation in the Po Valley, *Presentation Fall AAAR Meeting*, 2014.
- Sullivan, A.P.**, S.M. Kreidenweis, B.A. Schichtel, and J.L. Collett Jr., Smoke Marker Ratios from Controlled Laboratory Burns, Prescribed Burns, and Wildfires, *Presentation Fall AAAR Meeting*, 2014.
- Sullivan, A.P.**, N. Hodas, B.J. Turpin, K. Skog, F.N. Keutsch, S. Decesari, M.C. Facchini, and J.L. Collett, Jr., Searching for Evidence of Aqueous SOA Formation in the Po Valley, *Presentation Fall AAAR Meeting*, 2013.
- Sullivan, A.P.**, A.A. May, T. Lee, G.R. McMeeking, S.M. Kreidenweis, S.K. Akagi, R.J. Yokelson, S.P. Urbanski, and J.L. Collett, Jr., Examination of Airborne-Based Smoke Marker Ratios from Prescribed Burning, *Presentation Fall AAAR Meeting*, 2013.
- Sullivan, A.P.**, Investigation of Smoke Marker Ratios from Controlled Laboratory Burns vs. Wildfires and Prescribed Burns, *Presentation Wildland Fire PM Emission Factor Workshop*, 2012.
- Sullivan, A.P.**, S.M. Kreidenweis, S.K. Akagi, R.J. Yokelson, S.P. Urbanski, and J.L. Collett, Jr., Investigation of Airborne-Based Smoke Marker Ratios from Prescribed Burning, *Poster Fall AGU Meeting*, 2012.
- Sullivan, A.P.**, S.M. Kreidenweis, B.A. Schichtel, and J.L. Collett Jr., Smoke Marker Ratios from Controlled Laboratory Burns vs. Prescribed Burns and Wildfires, *Presentation American Meteorological Society Meeting*, 2012.
- Sullivan, A.P.**, N. Frank, and J.L. Collett, Jr., Application of an Alternative Method for Measuring Carbohydrates in Routine Filter Samples Collected by the FRM Network, *Poster IGAC-ICACGP Meeting*, 2010.
- Sullivan, A.P.**, S.M. Kreidenweis, and J.L. Collett Jr., Examination of Smoke Marker Ratios from Controlled Laboratory Burns vs. Wildfires and Prescribed Burns, *Presentation Fall AGU Meeting*, 2010.
- Sullivan, A.P.**, N. Frank, and J.L. Collett, Jr., An Alternative Method for Determining the Impact of Biomass Burning, *Poster Fall AAAR Meeting*, 2008.
- Sullivan, A.P.**, D.M. Kenski, N. Frank, and J.L. Collett, Jr., Spatial and Temporal Impacts of Biomass Burning (and More) on the Upper Midwest, *Presentation Fall AAAR Meeting*, 2008.
- Sullivan, A.P.**, A.S. Holden, L. Patterson, L.R. Mazzoleni, S.M. Kreidenweis, J.L. Collett, Jr., W.C. Malm, W.M. Hao, and C.E. Wold, A Method for Smoke Marker Measurements for Determining Air Quality Impacts of Biomass Burning, *Presentation Fall AAAR Meeting*, 2007.
- Sullivan, A.P.**, Isolation and Characterization of Fine Particle Carbonaceous Aerosols Soluble in Water Using Solid Phase Extraction and Size-Exclusion Chromatography, *Presentation ACCESS VIII*, 2005.
- Sullivan, A.P.**, R.E. Peltier, R.J. Weber, C.A. Brock, J.A. de Gouw, J.S. Holloway, C. Warneke, and A.G. Wollny, A Method for Airborne Measurements of Water-Soluble Organic Carbon: PILS-TOC results from the NOAA WP-3D during ICARTT, *Presentation Fall AAAR Meeting*, 2005.
- Sullivan, A.P.** and R.J. Weber, A Method to Isolate Carbonaceous Aerosols Soluble in Water by Organic Functional Group Using Solid Phase Extraction and Size-Exclusion Chromatography, *Presentation Fall AAAR Meeting*, 2005.
- Sullivan, A.P.** and R.J. Weber, Chemical Characterization of Fine Particle Water-Soluble Organic Carbon Using Solid Phase Extraction and Size-Exclusion Chromatography, *Poster Atmospheric Chemistry Gordon Research Conference*, 2005.
- Sullivan, A.P.** and R.J. Weber, Investigation of the Physical Properties of Fine Particle Water-Soluble Organic Carbon Aerosols, *Presentation Fall AAAR Meeting*, 2005.
- Sullivan, A.P.** and R.J. Weber, Sources of Organic Aerosols Soluble in Water in the Southeastern U.S., *Presentation Fall AGU Meeting*, 2005.
- Sullivan, A.**, R. Weber, P. Sannigrahi, E. Ingall, B. Yan, L. Ke, B. Wang, M. Zheng, A. Clements, J.R. Turner, M. Bae, and J.J. Schauer, Investigation into the hydrophilic versus hydrophobic fraction of ambient PM<sub>2.5</sub> organic particles soluble in water, *Poster Fall AAAR Meeting*, 2004.
- Sullivan, A.**, R. Weber, P. Sannigrahi, E. Ingall, B. Yan, L. Ke, B. Wang, M. Zheng, A. Clements, J.R. Turner, M. Bae, and J.J. Schauer, Measurement of ambient WSOC compounds using a PILS coupled to a Total Organic Carbon analyzer and XAD-8 column, *Presentation Fall AAAR Meeting*, 2004.
- Sullivan, A.P.** and R.J. Weber, Investigation into the Hydrophilic versus Hydrophobic Fraction of Ambient PM<sub>2.5</sub> Organic Particle Soluble in Water, *Presentation Fall AGU Meeting*, 2004.
- Sullivan, A.**, R. Weber, A. Clements, J. Turner, M. Bae, and J. Schauer, Water-soluble organic carbon and organic and elemental carbon in St. Louis using near real-time aerosol monitors, *Poster Fall AAAR Meeting*, 2003.
- Sullivan, A.**, D. Orsini, R. Weber, C. Brock, O. Cooper, J. Holloway, Y. Tang, and G. Carmichael, Measurements of Fine Particle Chemical Composition as Part of the ITCT 2K2 Experiment, *Presentation Fall AGU Meeting*, 2002.

