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Department of Environmental Sciences & Engineering (ESE)
Department of Chemistry
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EDUCATION

2010 Ph.D., Chemistry, California Institute of Technology, Pasadena, CA
Research Advisor: John H. Seinfeld
2003 B.A., Chemistry, North Carolina State University, Raleigh, NC
2003 B.S., Meteorology, North Carolina State University, Raleigh, NC

PROFESSIONAL EXPERIENCE

2020 - Present, *Professor*, UNC-CH, Department of Chemistry, Chapel Hill, NC
2018 - Present, *Professor*, UNC-CH, Department of ESE, Chapel Hill, NC
2018 - Present, *Program Director of the N.C. Per- and Polyfluoroalkyl Substance Testing (PFAST) Network*, UNC-CH, Department of ESE, Chapel Hill, NC
2017 - Present, *Co-Director for Undergraduate Studies*, UNC-CH, ESE Chapel Hill, NC
2015 - 2018, *Associate Professor*, UNC-CH, Department of ESE, Chapel Hill, NC
2010 - 2015, *Assistant Professor*, UNC-CH, Department of ESE, Chapel Hill, NC

HONORS AND AWARDS

2020 Newton Underwood Award for Excellence in Teaching, UNC-CH, Gillings School of Global Public Health
2019 *Environmental Science & Technology (ES&T) Letters* 2019 Reviewer Award
2019 *Environmental Science & Technology (ES&T) Letters* 2018 Best Paper Award for Zhang et al., "Effect of Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX)"
2018 Teaching Innovation Award, UNC-CH, Gillings School of Global Public Health
2017 *ES&T Letters* Selected Highly Prolific Authors
2017 Newton Underwood Award for Excellence in Teaching, UNC-CH, Gillings School of Global Public Health
2016 James J. Morgan Early Career Award Lectureship, *ES&T*, American Chemical Society
2015 Ruth and Philip Hettleman Prize for Artistic and Scholarly Achievement, UNC-CH
2015 Editors' Citation for Excellence in Refereeing, *Journal of Geophysical Research (JGR) - Atmospheres*
2013 Sheldon K. Friedlander Award, American Association for Aerosol Research
2013 Camille & Henry Dreyfus Environmental Chemistry Mentor
2013 Early Career Award, U.S. Environmental Protection Agency (EPA)

Last Updated: February 19, 2021

2013 ES&T Excellence in Review Award

2012 Walter A. Rosenblith New Investigator Award, Health Effects Institute (HEI)

2011 Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS)

2008 ScienceWatch.com Fast Breaking Paper - February 2008: In the field of Environment/Ecology for the manuscript entitled "Evidence for Organosulfates in Secondary Organic Aerosol."

2004-2007 EPA Science to Achieve Results (STAR) Graduate Fellowship

PROFESSIONAL MEMBERSHIPS

American Association for Aerosol Research

American Geophysical Union

American Chemical Society

BIBLIOGRAPHY

Refereed Articles - Published Status (147 Total; 17,028 total citations, h-index of 66 and i10-index of 118 based on Google Scholar)

(Annotations: S = graduate student advisee; V = visiting graduate student advisee; U = undergraduate advisee; P = postdoctoral scholar advisee; * = corresponding author)

1. Dubois, C.; Cholleton, D.; Gemayel, R.; Chen, Y.^S; **Surratt, J. D.**; George, C.; Rairoux, P.; Miffre, A.; Riva, M. (2021) Decrease in Sulfate Aerosol Light Backscattering by Reactive Uptake of Isoprene Epoxydiols. *Physical Chemistry Chemical Physics*, in press (38 pages).
2. Petters, S. S.^P; Cui, T.^S; Zhang, Z.; Gold, A.; McNeill, V. F.; **Surratt, J. D.**; Turpin, B. J. (2021) Organosulfates from Dark Aqueous Reactions of Isoprene-Derived Epoxydiols Under Cloud and Fog Conditions: Kinetics, Mechanism, and Effect of Reaction Environment on Regioselectivity of Sulfate Addition, *ACS Earth and Space Chemistry*, <https://doi.org/10.1021/acsearthspacechem.0c00293> (26 pages).
3. Newland, M. J.; Bryant, D. J.; Dunmore, R. E.; Bannan, T. J.; Acton, W. J. F.; Langford, B.; Hopkins, J. R.; Squires, F.; Dixon, W. J.; Drysdale, W. S.; Ivatt, P. D.; Evans, M. J.; Edwards, P. M.; Whalley, L. K.; Heard, D. E.; Slater, E. J.; Woodward-Masse, R.; Ye, C.; Mehra, A.; Worall, S. D.; Bacak, A.; Coe, H.; Percival, C. J.; Hewitt, C. N.; Lee, J. D.; Cui, T.^S; **Surratt, J. D.**; Wang, X.; Lewis, A. C.; Rickard, A. R.; Hamilton, J. F. (2021) Low-NO Atmospheric Oxidation Pathways in a Polluted Megacity. *Atmospheric Chemistry and Physics*, 21 (3), 1613 - 1625.
4. Ye, J.; Batista, C. E.; Guimaraes, P. C.; Ribeiro, I. O.; Vidoudez, C.; Barbosa, R. G.; Oliveira, R. L.; Ma, Y.; Jardine, K. J.; **Surratt, J. D.**; Guenther, A. B.; Souza, R. A. F.; Martin, S. T. (2021) Near-Canopy Horizontal Concentration Heterogeneity of Semivolatile Oxygenated Organic Compounds and Implications for 2-Methyltetrols Primary Emissions. *Environmental Science: Atmospheres*, 1 (1), 8-20.
5. Hamilton, J. F.; Bryant, D. J.; Edwards, P. M.; Ouyang, B.; Bannan, T. J.; Mehra, A.; Mayhew, A. W.; Hopkins, J. R.; Dunmore, R. E.; Squires, F. A.; Lee, J. D.; Newland,

- M. J.; Worrall, S. D.; Bacak, A.; Coe, H.; Percival, C.; Whalley, L. K.; Heard, D. E.; Slater, E. J.; Jones, R. L.; Cui, T.^S; **Surratt, J. D.**; Reeves, C. E.; Mills, G. P.; Grimmond, S.; Sun, Y.; Xu, W.; Shi, Z.; Rickard, A. R. (2021) Key Role of NO₃ Radicals in the Production of Isoprene Nitrates and Nitrooxyorganosulfates in Beijing, *Environmental Science & Technology*, 55 (2), 842–853.
6. Wolf, M. J.; Zhang, Y.^P; Zawadowicz, M. A.; Goodell, M.; Froyd, K.; Sellegri, K.; Rosch, M.; Cui, T.^S; Winter, M.; Lacher, L.; Axisa, D.; DeMott, P. J.; Levin, E. J. T.; Gute, E.; Abbatt, J.; Koss, A.; Kröll, J. H.; **Surratt, J. D.**; Cziczo, D. J. (2020) A Biogenic Secondary Organic Aerosol Source of Cirrus Ice Nucleating Particles. *Nature Communications*, 11, 4834.
 7. Smith, D. M.; Cui, T.^S; Fiddler, M. N.; Pokhrel, R.; **Surratt, J. D.**; Bililign, S. (2020) Laboratory Studies of Fresh and Aged Biomass Burning Aerosol Emitted from East African Biomass Fuels - Part 2 - Chemical Properties and Characterization. *Atmospheric Chemistry & Physics*, 20 (17), 10169-10191.
 8. Schmedding, R.; Rasool, Q. Z.; Zhang, Y.^P; Pye, H. O. T.; Zhang, H.; Chen, Y.^S; **Surratt, J. D.**; Lee, B. H.; Mohr, C.; Lopez-Hilfiker, F. D.; Thornton, J. A.; Goldstein, A. H.; Vizuete, W. (2020) Predicting Secondary Organic Aerosol Phase State and Viscosity and its Effect on Multiphase Chemistry in a Regional Scale Air Quality Model. *Atmospheric Chemistry & Physics*, 20 (13), 8201–8225.
 9. Chen, Y.^S; Zhang, Y.^P; Lambe, A. T.; Rongshuang, X.; Lei, Z.; Olson, N. E.; Zhang, Z.; Szalkowski, T.^U; Cui, T.^S; Vizuete, W.; Gold, A.; Turpin, B. J.; Ault, A. P.; Chan, M.N.; **Surratt, J.D.*** (2020) Heterogeneous Hydroxyl Radical Oxidation of Isoprene Epoxydiol-Derived Methyltetrol Sulfates: Plausible Formation Mechanisms of Previously Unexplained Organosulfates in Ambient Fine Aerosols. *Environmental Sci. & Technology Letters*, 7 (7), 460–468.
 10. Bryant, D. J.; Dixon, W. J.; Hopkins, J. R.; Dunmore, R. E.; Pereira, K. L.; Shaw, M.; Squires, F. A.; Bannan, T. J.; Mehra, A.; Worrall, S. D.; Bacak, A.; Coe, H.; Percival, C. J.; Whalley, L. K.; Heard, D. E.; Slater, E. J.; Ouyang, B., Cui, T.^S, **Surratt, J. D.**; Liu, D.; Shi, Z.; Harrison, R.; Sun, Y.; Xu, W.; Lewis, A. C.; Lee, J. D.; Rickard, A. R.; Hamilton, J. F. (2020) Strong Anthropogenic Control of Secondary Organic Aerosol Formation from Isoprene in Beijing. *Atmospheric Chemistry & Physics*, 20 (12), 7531–7552.
 11. Corteselli, E. M.; Gold, A.; **Surratt, J.**; Cui, T.^S; Bromberg, P.; Dailey, L.; Samet, J. M. (2020) Supplementation with Omega-3 Fatty Acids Potentiates Oxidative Stress in Human Airway Epithelial Cells Exposed to Ozone. *Environmental Research*, 187, 109627, 1-10.
 12. Yee, L. D.; Isaacman-VanWertz, G.; Wernis, R. A.; Kreisberg, N. M.; Glasius, M.; Riva, M.^P; **Surratt, J. D.**; de Sa, S. S.; Martin, S. T.; Alexander, M. L.; Palm, B. B.; Hu, W.; Campuzano-Jost, P.; Day, D. A.; Jimenez, J. L.; Liu, Y.; Misztal, P. K.; Artaxo, P.; Viegas, J.; Manzi, A.; de Souza, R.; Edgerton, E. S.; Baumann, K.; Goldstein, A. H. (2020) Natural and Anthropogenically-Influenced Isoprene Oxidation in the

- Southeastern U.S.A. and Central Amazon. *Environmental Science & Technology*, 54 (10), 5980–5991.
13. Escobar, Y.-N.; Nipp, G. E.^U; Cui, T.^S; Petters, S. S.^P; **Surratt, J. D.**; Jaspers, I. (2020) In Vitro Toxicity and Chemical Characterization of Aerosol Derived from Electronic Cigarette Humectants Using a Newly Developed Exposure System. *Chemical Research in Toxicology*, 33 (7), 1677–1688.
 14. Ribeiro, I. O.; do Santos, E. O.; Batista, C. E.; Fernandes, K. S.; Ye, J.; Medeiros, A. S.; e Oliveira, R. L.; de Sá, S. S.; de Sousa, T. R.; Kayano, M. T.; Andreoli, R. V.; Machado, C. M. D.; **Surratt, J. D.**; Junior, S. D.; Martin, S. T.; de Souza, R. A. F. (2020) Impact of Biomass Burning Impacts on a Metropolitan Area in the Amazon during the 2015 El Niño: The Enhancement of Carbon Monoxide and Levoglucosan Concentrations. *Environmental Pollution*, 260, 114029.
 15. Wach, P.; Spolnik, G.; **Surratt, J. D.**; Blaziak, K.; Rudzinski, K.; Lin, Y.-H.^S; Maenhaut, W.; Danikiewicz, W.; Claeys, M.; Szmigielski, R. (2020) Structural Characterization of Lactone-Containing MW 212 Organosulfates Originating from Isoprene Oxidation in Ambient Fine Aerosol. *Environmental Science & Technology*, 54 (3), 1415–1424.
 16. Eaves, L. A.; Smeester, L.; Hartwell, H. J.; Lin, Y.-H.^P; Arashiro, M.^S; Zhang, Z.; Gold, A.; **Surratt, J. D.**; Fry, R. C. (2020) Isoprene-derived Secondary Organic Aerosol Induces the Expression of micro RNAs (miRNAs) Associated with Inflammatory/Oxidative Stress Response in Lung Cells. *Chemical Research in Toxicology*, 33 (2), 381–387.
 17. Zhang, Y.^P; Chen, Y.^S; Lei, Z.; Olson, N. E.; Riva, M.; Koss, A. R.; Zhang, Z.; Gold, A.; Jayne, J. T.; Worsnop, D. R.; Onasch, T. B.; Kroll, J. H.; Turpin, B. J.; Ault, A. P.*; **Surratt, J. D.*** (2019) Joint Impacts of Acidity and Viscosity on the Formation of Secondary Organic Aerosol from Isoprene Epoxydiols (IEPOX) in Phase Separated Particles. *ACS Earth and Space Chemistry*, 3 (12), 2646–2658.
 18. D'Ambro, E. L.; Schobesberger, S.; Gaston, C. J.; Lopez-Hilfiker, F. D.; Lee, B. H.; Liu, J.; Zelenyuk, A.; Bell, D.; Cappa, C. D.; Helgestad, T.; Li, Z.; Guenther, A.; Wang, J.; Wise, M.; Caylor, R.; **Surratt, J. D.**; Riedel, T.^P; Hyttinen, N.; Salo, V.-T.; Hasan, G.; Kurten, T.; Shilling, J. E.; Thornton, J. A. (2019) Chamber-Based Insights into the Factors Controlling IEPOX SOA Yield, Composition, and Volatility. *Atmospheric Chemistry & Physics*, 19 (17), 11253–11265.
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 20. De Haan, D. O.; Pajunoja, A.; Hawkins, L. N.; Welsh, H. G.; Jimenez, N. G.; De Loera, A.; Zauscher, M.; Andretta, A. D.; Joyce, B. W.; De Haan, A. C.; Riva, M.^P; Cui, T.^S; **Surratt, J. D.**; Cazaunau, M.; Formenti, P.; Gratien, A.; Pangui, E.; Doussin,

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 23. Riva, M.^P; Chen, Y.^S; Zhang, Y.^P; Lei, Z.; Olson, N. E.; Boyer, H. C.; Narayan, S.; Yee, L. D.; Green, H. S.^U; Cui, T.^S; Zhang, Z.; Baumann, K. D.; Fort, M.; Edgerton E. S.; Budisulistiorini, S. H.^S; Rose, C. A.^S; Ribeiro, I. O.; e Oliveira, R. L.; dos Santos, E. O.; Szopa, S.; Machado, C. M. D.; Zhao, Y.; Alves, E. G.; de Sá, S.S.; Hu, W.; Knipping, E. M.; Shaw, S. L.; Duvoisin Junior, S.; de Souza, R. A. F.; Palm, B. B.; Jimenez, J. L.; Glasius, M.; Goldstein, A. H.; Pye, H. O. T.; Gold, A.; Turpin, B. J.; Vizuete, W.; Martin, S. T.; Thornton, J. A.; Dutcher, C. S.; Ault, A. P.*; **Surratt, J. D.*** (2019). Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. *Environmental Science & Technology*, 53 (15), 8682–8694.
 24. Cui, T.^S; Green, H. S.^U; Selleck, P. W.; Zhang, Z.; O'Brien R. E.; Gold, A.; Keywood M.; Kroll, J. H.; **Surratt, J. D.*** (2019) Chemical Characterization of Isoprene- and Monoterpene-Derived Secondary Organic Aerosol (SOA) Tracers in Remote Marine Aerosols over a Quarter Century. *ACS Earth and Space Chemistry*, 3 (6), 935–946.
 25. **Surratt, J. D.**; Lin, Y.-H.^P; Arashiro, M.^S; Vizuete, W. G.; Zhang, Z.; Gold, A.; Jaspers, I.; Fry, R. C. (2019) Understanding the Early Biological Effects of Isoprene-Derived Particulate Matter Enhanced by Anthropogenic Pollutants. Research Report 198. Boston, MA: Health Effects Institute.
 26. Lam, H. K.; Kwong, K. C.; Poon, H. Y.; Davies, J. F.; Wilson, K. R.; Zhang, Z.; Gold, A.; **Surratt, J. D.**; Chan, M. N. (2019) Heterogeneous OH Oxidation of Isoprene Epoxydiol-Derived Organosulfates: Kinetics, Chemistry, and Formation of Inorganic Sulfate. *Atmospheric Chemistry & Physics*, 19 (4), 2433–2440.
 27. O'Brien, R. E.; Ridley, K. J.; Canagaratna, M.; Jayne, J. T.; Croteau, P. L.; Worsnop, D. R.; Budisulistiorini, S.-H.^S; **Surratt, J. D.**; Follett, C. L.; Repeta, D. J.; Kroll, J. H. (2019) Ultrasonic Nebulizer for the Elemental Analysis of Microgram-Level Samples with Offline Aerosol Mass Spectrometry. *Atmospheric Measurement Techniques*, 12 (3), 1659–1671.
 28. Duncan, S. M.; Tomaz, S.^P; Morrison, G.; Webb, M.^S; Atkin, J.; **Surratt, J.D.**; Turpin, B. J. (2019) Dynamics of Residential Water-Soluble Organic Gases: Insights into Sources and Sinks. *Environmental Science & Technology*, 53 (4), 1812–1821.

29. Budisulistiorini, S.-H.; Riva, M.; Williams, M.^S; Miyakawa, T.; Chen, J.; Itoh, M.; **Surratt, J. D.**; Kuwata, M. (2018) Dominant Contribution of Oxygenated Organic Aerosol to Haze Particles from Real-Time Observation in Singapore During an Indonesian Wildfire Event in 2015. *Atmospheric Chemistry & Physics*, 18 (22), 16481–16498.
30. Cui, T.^S; Zheng, Z.^S; dos Santos, E. O.^V; Zhang, Z.; Chen, Y.^S; Zhang, Y.^P; Rose, C. A.^S; Budisulistiorini, S. H.^S; Collins, L. B.; Bodnar, W. M.; de Souza, R. A. F.; Martin, S. T.; Machado, C. M. D.; Turpin, B. J.; Gold, A.; Ault, A. P.; **Surratt, J. D.*** (2018) Development of a Hydrophilic Interaction Liquid Chromatography (HILIC) Method for the Chemical Characterization of Water-Soluble Isoprene Epoxydiol (IEPOX)-Derived Secondary Organic Aerosol. *Environmental Science: Processes & Impacts*, 20 (11), 1524–1536.
31. Tomaz, S.^P; Cui, T.^S; Chen, Y.^S; Sexton, K. G.; Roberts, J. M.; Warneke, C.; Yokelson, R. J.; **Surratt, J.D.***; Turpin, B. J. (2018) Photochemical Cloud Processing of Primary Wildfire Emissions as a Potential Source of Secondary Organic Aerosol. *Environmental Science & Technology*, 52 (19), 11027–11037.
32. Liu, J.; Russell, L. M.; Ruggeri, G.; Takahama, S.; Clafin, M. S.; Ziemann, P. J.; Pye, H. O. T.; Murphy, B. N.; Xu, L.; Ng, N. L.; McKinney, K. A.; Budisulistiorini, S. H.^S; Bertram, T. H.; Nenes, A.; **Surratt, J. D.** (2018) Regional Similarities and NO_x-related Increases in Biogenic Secondary Organic Aerosol in Summertime Southeastern United States. *Journal of Geophysical Research – Atmospheres*, 123, 10620–10636.
33. Xu, J. Cui, T.^S; Fowler, B.; Frankhauser, A.; **Surratt, J. D.**; McNeill, V. F. (2018) Aerosol Brown Carbon from Dark Reactions of Syringol in Aqueous Aerosol Mimics. *ACS Earth and Space Chemistry*, 2 (6), 608–617.
34. DeHaan, D. O.; Tapavicza, E.; Riva, M.^P; Cui, T.^S; **Surratt, J. D.**; Smith, A. C.; Jordan, M.-C.; Nilakantan, S.; Almodovar, M.; Stewart, T. N.; de Loera, A.; De Haan, A. C.; Cazaunau, M.; Gratien, A.; Pangui, E.; Doussin, J.-F. (2018) Nitrogen-Containing, Light-Absorbing Oligomers Produced in Aerosol Particles Exposed to Methylglyoxal, Photolysis, and Cloud Cycling. *Environmental Science & Technology*, 52 (7), 4061–4071.
35. Zhang, Y.^P; Chen, Y.^S; Lambe, A. T.; Olson, N. E.; Lei, Z.; Craig, R. L.; Zhang, Z.; Gold, A.; Onasch, T. B.; Jayne, J. T.; Worsnop, D. R.; Gaston, C. J.; Thornton, J. A.; Vizueté, W.; Ault, A. P.; **Surratt, J. D.*** (2018) Effect of Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). *Environmental Science & Technology Letters*, 5 (3), 167–174.
36. Bondy, A. L.; Craig, R. L.; Zhang, Z.; Gold, A.; **Surratt, J. D.**; Ault, A. P. (2018) Isoprene-Derived Organosulfates: Vibrational Mode Analysis by Raman Spectroscopy, Acid-Dependent Spectral Modes, and Observation in Individual Atmospheric Particles. *Journal of Physical Chemistry A*, 122 (1), 303–315.

37. Arashiro, M.^S; Lin, Y-H.^P; Zhang, Z.; Sexton, K. G.; Gold, A.; Jaspers, I.; Fry, R. C.; **Surratt, J. D.*** (2018) Effect of Secondary Organic Aerosol from Isoprene-Derived Hydroxyhydroperoxides on the Expression of Oxidative Stress Response Genes in Human Bronchial Epithelial Cells. *Environmental Science: Processes & Impacts*, 20 (2), 332–339.
38. Carlton, A. G.; de Gouw, J.; Jimenez, J.-L.; Ambrose, J. L.; Attwood, A.; Brown, S.; Baker, K. R.; Brock, C.; Cohen, R. C.; Edgerton, S.; Farkas, C.; Farmer, D.; Goldstein, A. H.; Gratz, L.; Guenther, A.; Hunt, S.; Jaeglé, L.; Jaffe, D. A.; Mak, J.; McClure, C.; Nenes, A.; Nguyen, T. K.; Pierce, J. R.; de Sa, S. S.; Selin, N. E.; Shah, V.; Shaw, S.; Shepson, P. B.; Song, S.; Stutz, J.; **Surratt, J. D.**; Turpin, B. J.; Warneke, C.; Washenfelder, R. A.; Wennberg, P. O.; Zhou, X. (2018) Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. *Bulletin of the American Meteorological Society*, 99 (3), 547–567.
39. Rattanavaraha, W.^S; Canagaratna, M. R.; Budisulistiorini, S. H.^P; Croteau, P. L.; Baumann, K.; Canonaco, F.; Prevot, A. S. H.; Edgerton, E. S.; Zhang, Z.; Jayne, J. T.; Worsnop, D. R.; Gold, A.; Shaw, S. L.; **Surratt, J. D.*** (2017) Source Apportionment of Submicron Organic Aerosol Collected from Atlanta, Georgia, During 2014–2015 Using the Aerosol Chemical Speciation Monitor (ACSM). *Atmospheric Environment*, 167, 389–402.
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43. de Sá, S. S.; Palm, B. B.; Campuzano-Jost, P.; Day, D. A.; Newburn, M. K.; Hu, W.; Isaacman-VanWertz, G.; Yee, L. D.; Thalman, R.; Brito, J.; Carbone, S.; Artaxo, P.; Goldstein, A. H.; Manzi, A. O.; Souza, R. A. F.; Mei, F.; Shilling, J.; Springston, S. R.; Wang, J.; **Surratt, J. D.**; Alexander, M. L.; Jimenez, J. L.; Martin, S. T. (2017) Influence of Urban Pollution on the Production of Organic Particulate Matter from Isoprene Epoxydiols in Central Amazonia. *Atmospheric Chemistry & Physics*, 17 (11), 6611–6629.
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Refereed Journal Articles – Under Review and to be Submitted Status (10 Total)

1. Khan, F.^S; Kwapiszewska, K.; Zhang, Y.^P; Chen, Y.^S; Lambe, A. T.; Kolodziejczyk, A.; Jalal, N.; Rudzinski, K.; Martinez-Romero, A.; Fry, R. C.; **Surratt, J. D.***; Szmigielski, R. (2021) Toxicological Responses of α -Pinene-Derived Secondary Organic Aerosol and its Molecular Tracers in Human Lung Cell Lines. *Chemical Research in Toxicology*, under review (36 pages).
2. Shimizu, M. S.; Mott, R.; Potter, A.; Zhou, J.^P; Baumann, K.; **Surratt, J. D.**; Turpin, B. J.; Avery, G. B.; Harfmann, J.; Kieber, R. J.; Mead, R. N.; Skrabal, S. A.; Willey, J. D. (2021) Atmospheric Deposition and Annual Flux of Legacy Perfluoroalkyl Substances and Replacement Perfluoroalkyl Ether Carboxylic Acids in Wilmington NC, USA. *Environmental Science & Technology Letters*, under review (19 pages).
3. Yttri, K. E.; Canonaco, F.; Eckhardt, S.; Evangeliou, N.; Fiebig, M.; Gundersen, H.; Hjellbrekke, A-G.; Myhre, C. L.; Platt, S. M.; Prévôt, A. S. H.; Simpson, D.; Solberg, S.; **Surratt, J. D.**; Tørseth, K.; Uggerud, H.; Vadset, M.; Wan, X.; Aas, W. (2021) Trends, Composition, and Sources of Carbonaceous Aerosol in the Last 18 Years at the Birkenes Observatory, Northern Europe. *Atmospheric Chemistry & Physics*, under review (45 pages).
4. Escobar, Y-N. H.; Morrison, C. B.; Chen, Y.^S; Rebuli, M. E.; **Surratt, J. D.**; Ehre, C.; Jaspers, I. (2021) The Differential Responses to Vaped Humectants and Different Forms of Nicotine in Epithelial Cells from Smokers and Non-Smokers. *American Journal of Physiology – Lung Cellular and Molecular Physiology*, under review (19 pages).
5. Zhou, J.^P; Baumann, K.; Mead, R. N.; Skrabal, S. A.; Kieber, R. J.; Avery, G. B.; Shimizu, M.; DeWitt, J. C.; Sun, M.; Bodnar, W.; Zhang, Z.; Collins, L. B.; **Surratt, J. D.***; Turpin, B. J. (2021) North Carolina Ambient Fine Particle PFAS Composition is Dominated by PFOS Nearly 20 Years after the End of U.S. Production. *Environmental Science: Processes and Impacts*, under review (20 pages).
6. Zhou, J.^P; Baumann, K.; Chang, N.; Bodnar, W.; Zhang, Z.; **Surratt, J.D.**; Turpin, B. J. (2021) Per- and Polyfluoroalkyl Substances (PFASs) in Fine Particulate Matter (PM_{2.5}) During Floor Waxing. *Environmental Sciences and Technology Letters*, to be submitted (26 pages).
7. Rattanavaraha, W.^S; Canagaratna, M. R.; Budisulistiorini, S. H.^P; Croteau, P. L.; Baumann, K.; Edgerton, E. S.; Zhang, Z.; Jayne, J. T.; Worsnop, D. R.; Gold, A.; Shaw, S. L.; **Surratt, J. D.*** (2021) Source Apportionment of Submicron Organic Aerosol Collected from Centreville, Alabama, During 2015-2016 Using the Aerosol Chemical Speciation Monitor (ACSM). *Atmospheres*, to be submitted (37 pages).
8. Szalkowski, T.^U; Cui, T.^S; Baumann, K.; Schmedding, R.; Zhang, Z.; **Surratt, J. D.**; Seymore, J.; Vizuete, W. (2021) Chemical Characterization of Isoprene- and Monoterpene-Derived SOA Tracers in Marine Aerosols from the Galapagos Islands. *ACS Earth and Space Chemistry*, to be submitted (24 pages).

9. Tomaz, S.^P; Petters, S. S.^P; **Surratt, J. D.***; Turpin, B. J.* (2021) Furan-like Molecules Emitted by Biomass Burns: A Potential Source of Aqueous Secondary Organic Aerosol, *Environmental Science and Technology*, to be submitted (22 pages).
10. Cui, T.^S; Tomaz, S.^P; Tarun-Chenna, S.; Zhenyu, T.; Li, H.; Selimovic, V.; Chen, Y.^S; Sexton, K. G., May, A. A.; Cappa, C. D.; Kroll, J. H.; Roberts, J. M.; Warneke, C.; de Gouw, J.; Yokelson, R. J.; Jathar, S.; Turpin, B. J.*; **Surratt, J. D.*** (2020) Chemical Composition of Brown Carbon Aerosol from Primary and Photochemically-Aged Laboratory-Simulated Western U.S. Wildfire Emissions, *ACS Earth and Space Chemistry*, to be submitted (39 pages).

Invited Oral Presentations (42 Total, * = presenter)

1. **Surratt, J. D.*** (2020) *Characterizing the Effects of Sulfate, Aerosol Phase State and Aging on Secondary Organic Aerosol Formation from the Multiphase Chemistry of Isoprene Epoxydiols (IEPOX)*. University of California - San Diego, Department of Chemistry. January 7.
2. **Surratt, J. D.*** (2018) *Extensive Isoprene Epoxydiol (IEPOX) Conversion of Inorganic to Organic Sulfur Alters Aerosol Properties*. American Geophysical Union (AGU). Invited Speaker at Laboratory Studies in Atmospheric Sciences II. Washington, D.C. December 13.
3. **Surratt, J. D.*** (2018) *Effects of Sulfate and Aerosol Phase State on the Acid-Catalyzed Multiphase Chemistry of Isoprene Epoxydiols Leading to Secondary Organic Aerosol Formation*. US EPA. Research Triangle Park, NC. October 31.
4. **Surratt, J. D.*** (2018) *Acid-Catalyzed Multiphase Chemistry of Isoprene Epoxydiols*. Telluride Science Research Center (TSRC) Meeting entitled, "Organic Particles in the Atmosphere: Formation, Properties, Processing, and Impact." Telluride, CO USA. July 25.
5. **Surratt, J. D.*** (2017) *Multiphase Chemistry of Isoprene-Derived Oxidation Products Leads to Secondary Organic Aerosol Formation*. University of Manchester. Manchester, United Kingdom. September 7.
6. **Surratt, J. D.*** (2017) *Multiphase Chemistry of Isoprene-Derived Oxidation Products Leads to Secondary Organic Aerosol Formation*. University of York. York, United Kingdom. September 6.
7. **Surratt, J. D.*** (2017) *Multiphase Chemistry of Isoprene-Derived Oxidation Products Leads to Secondary Organic Aerosol Formation: Implications for Air Quality and Public Health*. University of Birmingham. Birmingham, United Kingdom. September 4.
8. **Surratt, J. D.*** (2017) *Multiphase Chemistry of Isoprene-Derived Oxidation Products Leads to Secondary Organic Aerosol Formation*. American Chemical Society (ACS). Invited Speaker for Multiphase Chemistry Symposium - Aerosol Chemistry. Washington, D.C. USA. August 22.
9. **Surratt, J. D.*** (2017) *Secondary Organic Aerosol Formation from the Atmospheric Oxidation of Isoprene: Implications for Air Quality, Climate and Public Health*. Analytical

and Environmental Chemistry Seminar. University of Colorado, Boulder. Boulder, CO USA. March 6.

10. **Surratt, J. D.*** (2017) *Secondary Organic Aerosol Formation from the Atmospheric Oxidation of Isoprene: Implications for Air Quality, Climate and Public Health in the Southeastern USA*. Institute for the Environment Seminar. University of North Carolina at Chapel Hill. Chapel Hill, NC USA. February 22.
11. **Surratt, J. D.*** (2016) *Secondary Organic Aerosol Formation from the Atmospheric Oxidation of Isoprene: Implications for Air Quality, Climate and Public Health in the Southeastern US*. Berkeley Atmospheric Sciences Center (BASC) Seminar. University of California, Berkeley. Berkeley, CA USA. December 7.
12. **Surratt, J. D.*** (2016) *Secondary Organic Aerosol Formation from the Atmospheric Oxidation of Isoprene: Implications for Air Quality, Climate and Public Health in the Southeastern US*. UNC's Ruth and Philip Hettleman Lecture for Artistic and Scholarly Achievement. Chapel Hill, NC USA. May 18.
13. **Surratt, J. D.*** (2016) *Multiphase Chemistry Promotes Isoprene-Derived Secondary Organic Aerosol Formation: Implications for Air Quality, Climate and Public Health in the Southeastern USA*. Invited Plenary Lecture. Nordic Society for Aerosol Research (NOSA) Symposium. Aarhus University, Aarhus, Denmark. April 5.
14. **Surratt, J. D.*** (2016) *Aerosol Characterization Tutorial: Organic Aerosols*. Nordic Society for Aerosol Research (NOSA) Symposium. Aarhus University, Aarhus, Denmark. April 3.
15. **Surratt, J. D.*** (2016) *Multiphase Chemistry Promotes Isoprene-Derived Secondary Organic Aerosol Formation in the Southeastern USA*. ES&T @ 50: Award Winning Researchers, Past, Present and Future Session. James J. Morgan Early Career Award Lectureship. American Chemical Society (ACS). San Diego, CA USA. March 16.
16. **Surratt, J. D.*** (2016) *Impacts of Anthropogenic Emissions in the Southeastern U.S. on Heterogeneous Chemistry of Isoprene-Derived Epoxides Leading to Secondary Organic Aerosol Formation*. U.S. EPA STAR Progress Review Meeting. Research Triangle Park, NC USA. March 14.
17. **Surratt, J. D.*** (2016) *Secondary Organic Aerosol Formation from the Atmospheric Oxidation of Isoprene: Implications for Air Quality, Climate and Public Health in the Southeastern U.S.* Engineering and Applied Sciences, Harvard University, Boston, MA USA. January 29.
18. **Surratt, J. D.*** (2015) *Multiphase Chemistry Promotes Isoprene-Derived Secondary Organic Aerosol Formation in the Southeastern United States*. Department of Physics, NC A&T State University. Greensboro, NC USA. November 16.
19. **Surratt, J. D.*** (2015) *Multiphase Chemistry Promotes Isoprene-Derived Secondary Organic Aerosol Formation in the Southeastern United States*. Department of Chemistry, University of Toronto. Toronto, Canada. November 12.
20. **Surratt, J. D.*** (2015) *Multiphase Chemistry Promotes Isoprene-Derived Secondary Organic Aerosol Formation*. Gordon Research Conference on Atmospheric Chemistry.

Invited Speaker for the Organic Chemistry in the Particle Phase Session. Waterville Valley, NH USA. August 4.

21. **Surratt, J. D.*** (2015) *Isoprene-Derived Secondary Organic Aerosol Formation Across Multiple Sites in the Southeastern U.S.: Implications for Air Quality and Human Health*. American Chemical Society (ACS). Invited Speaker for Atmospheric Chemistry: Transformations of Matter in the Troposphere Session. Denver, CO USA. March 25.
22. **Surratt, J. D.*** (2015) *Secondary Organic Aerosol Formation from the Atmospheric Oxidation of Isoprene: Implications for Air Quality, Climate, and Human Health*. Department of Chemical and Environmental Engineering, Yale University. New Haven, CT USA. February 25.
23. **Surratt, J. D.*** (2014) *Secondary Organic Aerosol from the Heterogeneous Chemistry of Isoprene-Derived Epoxides*. 13th International Global Atmospheric Chemistry (IGAC) Science Conference: Changing Chemistry in a Changing World. Invited Speaker for Atmospheric Chemistry Fundamentals Session. Natal, Brazil. September 23.
24. **Surratt, J. D.*** (2014) *Secondary Organic Aerosol Production from Heterogeneous Chemistry of Isoprene-Derived Epoxides: Implications for Air Quality, Climate and Public Health*. Department of Chemical Engineering, Columbia University. New York, NY USA. September 8.
25. **Surratt, J. D.*** (2014) *Anthropogenic Pollutants Enhance Secondary Organic Aerosol Production from the Heterogeneous Chemistry of Isoprene-Derived Epoxides: Implications for Air quality, Climate, and Public Health in the Southeastern U.S.* American Chemical Society (ACS). Environmental Interfaces in the Atmosphere: From Surface Chemistry to Air Quality, Climate, and Health Effects. San Francisco, CA USA. August 10.
26. **Surratt, J. D.*** (2014) *SOA Formation from Isoprene-Derived Epoxides: Smog Chamber, Flow Tube, and Field Studies*. Telluride Science Research Center (TSRC) Meeting entitled, "Organic Particles in the Atmosphere: Formation, Properties, Processing, and Impact." Telluride, CO USA. August 1.
27. **Surratt, J. D.*** (2014) *Overview of Look Rock Mountain, TN, Ground Site During SOAS 2013 Campaign*. Southeast Atmosphere Study (SAS) Data Meeting. Boulder, CO USA. March 31.
28. **Surratt, J. D.*** (2013) *Impacts of Anthropogenic Emissions in the Southeastern U.S. on Heterogeneous Chemistry of Isoprene-Derived Epoxides Leading to Secondary Organic Aerosol Formation*. American Geophysical Union (AGU) Meeting - Molecular Chemistry and Physicochemical Properties of Organic Aerosols, Session 2. San Francisco, CA USA. December 11.
29. **Surratt, J. D.*** (2013) *Secondary Organic Aerosol Formation from Photochemical Oxidation of Isoprene: Role of Epoxides*. Department of Chemistry, University of North Carolina at Wilmington (UNCW). Wilmington, NC USA. April 26.
30. **Surratt, J. D.*** (2013) *An Overview of Isoprene Chemistry and Secondary Organic Aerosol Formation*. European Science Foundation (ESF) Strategic Workshop on The

Molecular Identification of Organic Compounds in the Atmosphere. The University of Cambridge. Cambridge, United Kingdom. March 27.

31. **Surratt, J. D.*** (2012) *Secondary Organic Aerosol Formation from Isoprene Oxidation: Role of Epoxides*. Atmospheric Chemical Mechanisms (ACM) Meeting. University of California, Davis. Davis, CA USA. December 10.
32. **Surratt, J. D.*** (2012) *Impacts of Anthropogenic Emissions in the S.E. USA on Heterogeneous Chemistry of Isoprene-Derived Epoxides Leading to Secondary Organic Aerosol (SOA) Formation*. The Southeastern Regional Meeting of the American Chemical Society – Atmospheric Chemistry: Gas-Particle Interactions and Climate Session 1. Raleigh, NC USA. November 16.
33. **Surratt, J. D.*** (2012) *Secondary Organic Aerosol Formation from Isoprene Oxidation: Role of Epoxides*. Department of Chemistry, Colorado State University. Fort Collins, CO USA. September 26.
34. **Surratt, J. D.*** (2012) *The Chemistry of Isoprene and Terpenes*. American Chemical Society (ACS). Kinetics and Mechanism in the Earth's Atmosphere Symposium. Philadelphia, PA USA. August 20.
35. **Surratt, J. D.*** (2012) *The Chemistry of Isoprene SOA Formation*. Telluride Science Research Center (TSRC) Meeting on Organic Particles in the Atmosphere: Formation, Properties, Processing, and Impact. Telluride, CO USA. August 1.
36. **Surratt, J. D.***; Lin, Y.-H.^S; Zhang, Z.; Docherty, K. S.; Zhang, H.^S; Budisulistiorini, S. H.^S; Rubitschun, C. L.^S; Shaw, S. L.; Knipping, E. M.; Edgerton, E. S.; Kleindienst, T. E.; Gold, A. (2011) *Isoprene Epoxydiols as Precursors to Secondary Organic Aerosol Formation: Acid Catalyzed Reactive Uptake Studies with Authentic Standards*. American Geophysical Union (AGU). Formation and Properties of Organic Aerosols IV: SOA Formation Mechanisms Section. San Francisco, CA USA. December 6.
37. **Surratt, J. D.*** (2011) *SOA Formation from the Photooxidation of Isoprene: Effects of NO_x, Aerosol Acidity, and Relative Humidity*. Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS). Brookhaven National Laboratory. Upton, NY USA. July 23.
38. **Surratt, J. D.*** (2011) *Effect of NO_x and Aerosol Acidity on Biogenic SOA Formation*. Southern Oxidant and Aerosol Study (SOAS) Planning Workshop. Rutgers University. New Brunswick, NJ USA. May 26.
39. **Surratt, J. D.*** (2011) *Secondary Organic Aerosol (SOA) Formation from the Photooxidation of Isoprene: Effect of NO_x, Aerosol Acidity, and RH*. Environmental Protection Agency. Research Triangle Park, NC USA. March 30.
40. **Surratt, J. D.***; Chan, A. W. H.; Kautzman, K. E.; Chhabra, P. S.; Galloway, M. M.; Chan, M. N.; Crouse, J. D.; Kurten, A.; Wennberg, P. O.; Keutsch, K. N.; Flagan, R. C.; Seinfeld, J. H. (2009) *Recent Results on Secondary Organic Aerosol Formation at Caltech: Photooxidation of Polycyclic Aromatic Hydrocarbons (PAHs) and Reactive Uptake of Glyoxal*. European Science Foundation (ESF) Sponsored Interdisciplinary

Tropospheric Research (INTROP) Final Conference. Aerosols and Global Change Session. Portoroz, Slovenia. April 14.

41. **Surratt, J. D.*** (2009) *Chemical Characterization of Organic Aerosol: Sources and Formation Mechanisms*. University of California, San Diego. San Diego, CA USA. February 9.
42. **Surratt, J. D.***; Gómez-González, Y.; Chan, A. W. H.; Vermeylen, R.; Shahgholi, M.; Claeys, M.; Flagan, R. C.; Seinfeld, J. H. (2007) *Investigation of Organosulfate Formation in Biogenic Secondary Organic Aerosol*. Biogenic Volatile Organic Compounds: Sources and Fates in a Changing World International Science Meeting. Montpellier, France. October 4.

Conference Oral Presentations (22 Total, S = graduate student, U= undergraduate student, P = postdoctoral scholar, * = speaker)

1. Chen, Y.^{S*}; Zhang, Y.^P; Lambe, A. T.; Xu, R.; Zhang, Z.; Gold, A.; Turpin, B. J.; Ault, A. P.; **Surratt, J. D.** (2019) *Heterogeneous OH Oxidation of Methyltetrol Sulfates Leads to Formation of Multifunctional Organosulfates Previously Measured in Ambient Fine Aerosols*. American Geophysical Union (AGU) Annual Meeting. San Francisco, CA USA. December 13.
2. Cui, T.^{S*}; Selleck, P.; Lin, Y.-H.^P; Boulanger, K.; O'Brien, R.; Zhang, Z.; Gold, A.; Keywood, M.; Kroll, J. H.; **Surratt, J. D.** (2015) *Organic Nitrogen and Carbon in Atmospheric Aerosols: Concentration, Chemical Composition, and Properties*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 16.
3. Budisulistiorini, S. H.^P; McNeill, V. F.; Pye, H. O. T.; **Surratt, J. D.*** (2015) *Understanding Aqueous-Phase Isoprene-Epoxydiol (IEPOX) Secondary Organic Aerosol (SOA) Production During SOAS 2013*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 15.
4. Rattanavaraha, W.^{S*}; Budisulistiorini, S. H.^P; Croteau, P.; Baumann, K.; Edgerton, E. S.; Canagaratna, M.; Jayne, J.; Worsnop, D.; Shaw, S. L.; **Surratt, J. D.** (2015) *Chemical Characterization of Atmospheric Fine Aerosol Collected from Atlanta, GA and Centerville, AL Using the Aerodyne Aerosol Chemical Speciation Monitor*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 15.
5. Riva, M.^{P*}; Cui, T.^S; Gold, A.; **Surratt, J. D.** (2015) *Evidence for Unrecognized Anthropogenic Sources of Organosulfates: Gas-Phase Oxidation of Anthropogenic Precursors in the Presence of Sulfate Aerosol*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 15.
6. Riedel, T. P.^P; Chu, K.^S; Cui, T.^S; Lin, Y.-H.^P; Budisulistiorini, S. H.^P; Zhang, Z.; Thornton, J. A.; Gold, A.; **Surratt, J. D.*** (2015) *Constraining Condensed-Phase Kinetics of Secondary Organic Aerosol Components from Isoprene Epoxydiols*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 13.

7. Lin, Y.-H.^P; Kramer, A.^U; Arashiro, M.^S; Rattanvaraha, W.^S; Martin, E.; Zhang, Z.; Sexton, K. G.; Gold, A.; Jaspers, I.; Fry, R. C.; **Surratt, J. D.*** (2015) *Isoprene-derived Secondary Organic Aerosol Induces Expression of Nuclear Factor Erythroid 2-like 2 (NRF2)-mediated Oxidative Stress Response Genes in Human Lung Cells*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 13.
8. Budisulistiorini, S. H.^{S*}; Li, X.^S; Croteau, P.; Canagaratna, M.; Bairai, S.; Tanner, R.; Shaw, S. L.; Knipping, E. M.; Jayne, J.; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2014) *Seasonal Characterization of Atmospheric Organic Aerosol at the Look Rock Site, Great Smoky Mountains National Park during 2013 Using the Aerodyne Aerosol Chemical Speciation Monitor (ACSM)*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 22.
9. Riedel, T. P.^{P*}; Gaston, C.; Budisulistiorini, S. H.^S; Lin, Y.-H.^{P,S}; Zhang, Z.; Gold, A.; Thornton, J. A.; **Surratt, J. D.** (2014) *Heterogeneous Reaction Kinetics of Isoprene-Derived Epoxides*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 22.
10. Riva, M.^{P*}; Yee, L.; Budisulistiorini, S. H.^S; Edgerton, E.; Goldstein, A. H.; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2014) *Chemical Characterization of Isoprene- and Monoterpene-Derived SOA Tracers in PM_{2.5} Collected from Centerville, AL, during SOAS 2013*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 22.
11. Lin, Y.-H. ^{P*}; Arashiro, M.^S; Zhang, Z.; Gold, A.; Jaspers, I.; Fry, R.; **Surratt, J. D.** (2014) *Isoprene-derived Secondary Organic Aerosol and Epoxide Intermediates Induce Altered Expression of Inflammation-Associated Genes in Lung Cells*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 22.
12. Budisulistiorini, S. H.^S; McNeill, V. F.*; Pye, H. O. T.; Carlton, A. M.; **Surratt, J. D.** (2014) *Aqueous Sources of Secondary Organic Aerosol in the Southeast Atmosphere Study (SAS)*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 22.
13. Arashiro, M.^{S*}; Lin, Y.-H. ^P; Sexton, K. G.; Jaspers, I.; Fry, R.; Gold, A.; **Surratt, J. D.** (2014) *In Vitro Exposures to Isoprene-Derived Secondary Organic Aerosol: Assessing the Effects of Cytotoxicity and Inflammation on BEAS-2B using Resuspension and Direct Deposition Approaches*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 13.
14. Budisulistiorini, S. H.^{S*}; Li, X.^S; Rattanvaraha, W.^S; Yee, L. D.; Edgerton, E. S.; Shaw, S. L.; Hicks, W. R.; Bairai, S. T.; Mueller, S. F.; Renfro, J.; Goldstein, A. H.; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2014) *Real-time Characterization of Isoprene-Derived Secondary Organic Aerosol Formation at the Look Rock Site, Tennessee during the 2013 Southern Oxidant and Aerosol Study (SOAS)*. Southeast Atmosphere Study (SAS) Data Meeting. Boulder, CO USA. March 31.

15. Budisulistiorini, S. H.^{S*}; Li, X.^S; Bairai, S. T.; Hicks, W. R.; Renfro, J.; Corrigan, A.; Guzman, J. M.; Russell, L. M.; Liu, Y.; Li, Y.; McKinney, K.; Zhang, X.; Cappa, C. D.; Zimmermann, K.; Bertram, T. H.; Canagaratna, M. R.; Croteau, P. L.; Worsnop, D. R.; Jayne, J. T.; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2013) *Real-time Characterization of Isoprene-Derived Secondary Organic Aerosol Formation at the Look Rock Site, Tennessee during the 2013 Southern Oxidant and Aerosol Study (SOAS)*. American Geophysical Union (AGU) Fall Meeting – Air Quality and Climate in the Southeast US, Session 5. San Francisco, CA USA. December 11.
16. Budisulistiorini, S. H.^{S*}; Canagaratna, M. R.; Croteau, P. L.; Baumann, K.; Edgerton, E. S.; Ng, N. L.; Verma, V.; Shaw, S. L.; Knipping, E. M.; Worsnop, D. R.; Jayne, J. T.; Weber, R. J.; **Surratt, J. D.** (2013) *Intercomparison of an Aerosol Chemical Speciation Monitor (ACSM) with Ambient Fine Aerosol Measurements in Downtown Atlanta, Georgia*. American Association for Aerosol Research (AAAR) Annual Meeting. Portland, OR USA. October 2.
17. Budisulistiorini, S. H.^{S*}; Canagaratna, M. R.; Croteau, P. L.; Marth, W. J.^S; Baumann, K.; Edgerton, E. S.; Shaw, S. L.; Knipping, E. M.; Jansen, J.; Tanner, R. L.; Worsnop, D. R.; Jayne, J. T.; Gold, A.; **Surratt, J. D.** (2012) *Real-time Continuous Characterization of Secondary Organic Aerosol Derived from Isoprene Epoxydiols (IEPOX) in Downtown Atlanta, Georgia, using the Aerodyne Aerosol Chemical Speciation Monitor (ASCM)*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 10.
18. Lin, Y.-H.^{S*}; Knipping, E. M.; Edgerton, E. S.; Shaw, S. L.; **Surratt, J. D.** (2012) *Influences of SO₂ and NH₃ Levels on Ambient Isoprene Epoxydiols (IEPOX)-Derived SOA Formation in the Rural Southeastern United States*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN USA. October 10.
19. Zhang, H.^{S*}; **Surratt, J. D.**; Lin, Y.-H.^S; Bapat, J.; Kamens, R. M. (2011) *Effect of Relative Humidity on SOA Formation from Isoprene/NO Photooxidation: Enhancement of 2-Methylglyceric Acid and its Corresponding Oligoesters under Dry Conditions*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 7.
20. **Surratt, J. D.***; Lin, Y.-H.^S; Rubitschun, C. L.^S; Offenberg, J. H.; Kleindienst, T. E.; Weber, R. J.; Zhang, X. (2011) *Chemical Characterization and Quantification of Organosulfates and Nitrated Organosulfates Derived from BVOCs in PM_{2.5} Collected During the CalNex 2010 Campaign*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 7.
21. Zhang, X.*; Lin, Y.-H.^S; **Surratt, J. D.**; Zotter, P.; Prevot, A. S. H.; Weber, R. J. (2011) *Light-Absorbing Soluble Organic Aerosol in Los Angeles and Atlanta: A Contrast in Secondary Organic Aerosol*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 7.
22. **Surratt, J. D.***; Gómez-González, Y.; Chan, A. W. H.; Vermeylen, R.; Shahgholi, M.; Claeys, M.; Flagan, R. C.; Seinfeld, J. H. (2007) *Investigation of Organosulfate*

Formation in Biogenic Secondary Organic Aerosol. American Association for Aerosol Research (AAAR) Meeting. Reno, NV USA. September 25.

Poster Presentations (15 Total, S = graduate student, P = postdoctoral scholar, * = presenter)

1. Cui, T.^{S,*}; Kamens, R. M.; Pedit, J.; **Surratt, J. D.**; Jaspers, I.; Sexton, K. (2015) *Effect of Titanium Dioxide Particles on Secondary Organic Aerosol Formation from Photooxidation of Toluene.* American Association for Aerosol Research (AAAR) Meeting. Minneapolis, MN USA. October 13.
2. Riva, M.^{P,*}; Budisulistiorini, S. H.^P; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2015) *Chemical Characterization of Gas- and Aerosol-Phase Products from Isoprene Ozonolysis in Presence of Acidic Aerosol: Re-examination of Secondary Organic Aerosol Formation.* American Association for Aerosol Research (AAAR) Meeting. Minneapolis, MN USA. October 13.
3. Rattanavaraha, W.^{S,*}; Chu, K.^S; Budisulistiorini, S. H.^P; Riva, M.^P; Lin, Y.-H.^P; Riedel, T. P.^P; Edgerton, E. S.; Baumann, K.; Guo, H.; Weber, R. J.; Stone, E.; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2015) *Investigation of the Impact of Anthropogenic Pollution on Isoprene-Derived Secondary Organic Aerosol (SOA) in PM_{2.5} Collected at Birmingham, AL during the 2013 Southern Oxidant and Aerosol Study (SOAS).* American Association for Aerosol Research (AAAR) Meeting. Minneapolis, MN USA. October 13.
4. Riva, M.^{P,*}; Budisulistiorini, S. H.^{S,*}; Detwiler, T.; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2014) *Chemical Characterization of Gas- and Aerosol-Phase Products from Isoprene Ozonolysis in Presence of Acidic Aerosol: Re-examination of Secondary Organic Aerosol Formation.* American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 23.
5. Rattanavaraha, W.^{S,*}; Budisulistiorini, S. H.^S; Croteau, P.; Baumann, K.; Edgerton, E. S.; Canagaratna, M.; Jayne, J.; Worsnop, D.; Shaw, S. L.; **Surratt, J. D.** (2014) *Chemical Characterization of Atmospheric Fine Aerosol at the Jefferson Street, Atlanta, GA Using the Aerodyne Aerosol Chemical Speciation Monitor (ACSM): Results from Winter, Spring, and Summer 2014.* American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 21.
6. Riva, M.^{P,*}; Yee, L. D.; Budisulistiorini, S. H.^S; Edgerton, E. S.; Knipping, E. M.; Goldstein, A. H.; **Surratt, J. D.** (2014) *Chemical Characterization of Isoprene- and Monoterpene-Derived SOA Tracers in PM_{2.5} Collected from Centerville, AL, During SOAS 2013.* Southeast Atmosphere Study (SAS) Data Meeting. Boulder, CO USA. March 31.
7. Li, X.^{S,*}; Budisulistiorini, S. H.^S; Rattanavaraha, W.^S; Yee, L. D.; Edgerton, E. S.; Shaw, S. L.; Hicks, W. R.; Bairai, S. T.; Mueller, S. F.; Renfro, J.; Goldstein, A. H.; Zhang, Z.; Gold, A.; **Surratt, J. D.** (2014) *Molecular Characterization of Biogenic SOA in PM_{2.5} Collected at the Look Rock Site During SOAS.* Southeast Atmosphere Study (SAS) Data Meeting. Boulder, CO USA. March 31.

8. Zhang, H.^{S*}; Parikh, H. M.; Bapat, J.; Lin, Y.-H.^S; **Surratt, J. D.**; Kamens, R. M. (2012) *Modeling of SOA Formation from Isoprene Photooxidation Chamber Studies Using Different Approaches*. Atmospheric Chemical Mechanisms (ACM) Meeting. University of California, Davis. Davis, CA USA. December 10.
9. Zhang, H.^{S*}; Worton, D. R.; Lewandowski, M.; Ortega, J.; Rubitschun, C. L.^S; Park, J. H.; Kristensen, K.; Campuzano-Jost, P.; Day, D. A.; Jimenez, J. L.; Jaoui, M.; Offenberg, J. H.; Kleindienst, T. E.; Gilman, J.; de Gouw, J.; Park, C. H.; Schade, G. W.; Frossard, A. A.; Russell, L. M.; Kaser, L.; Jud, W.; Hansel, A.; Cappellin, L.; Karl, T.; Glasius, M.; Guenther, A.; Goldstein, A. H.; Seinfeld, J. H.; Gold, A.; Kamens, R. M.; **Surratt, J. D.** (2012) *Organosulfates as Tracers for SOA Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere*. American Association for Aerosol Research (AAAR) Annual Meeting. Minneapolis, MN, USA. October 16.
10. Lin, Y.-H.^{S*}; **Surratt, J. D.**; Knipping, E. M.; Edgerton, E. S.; Shaw, S. L. (2011) *Chemical Characterization of PM_{2.5} Collected with Conditional Sampling Strategies from the Southeastern United States: Influences of SO₂ and NH₃ on Ambient Biogenic SOA Formation*. American Association for Aerosol Research (AAAR) Annual Meeting. Orlando, FL USA. October 4.
11. Lin, Y.-H.^{S*}; Zhang, Z.; Docherty, K. S.; Zhang, H.^S; Budisulistiorini, S. H.^S; Rubitschun, C. L.^S; Shaw, S. L.; Knipping, E. M.; Kleindienst, T. E.; Gold, A.; **Surratt, J. D.** (2011) *Isoprene Epoxydiols as Precursors to Secondary Organic Aerosol Formation: Acid-Catalyzed Reactive Uptake Studies with Authentic Compounds*. Gordon Research Conference on Atmospheric Chemistry. Mount Snow Resort. West Dover, VT USA. July 24-29.
12. Lin, Y.-H.^{S*}; Offenberg, J. H.; Zhang, X.; Weber, R. J.; Kleindienst, T. E.; **Surratt, J. D.** (2011) *Off-line UPLC/ESI-HR-Q-TOFMS Analyses of SOA Heterogeneous-Reaction Products in PM_{2.5} Collected from the CalNex-Pasadena Ground Site*. CalNex Data Analysis Workshop. Cal EPA Building. Sacramento, CA USA. May 18.
13. Rubitschun, C. L.^{S*}; Offenberg, J. H.; Kleindienst, T. E.; **Surratt, J. D.** (2011) *Isoprene- and Monoterpene-Derived Organosulfates in PM_{2.5} During the CalNex Campaign in Bakersfield, CA*. CalNex Data Analysis Workshop. Cal EPA Building. Sacramento, CA USA. May 17.
14. **Surratt, J. D.***; Murphy, S. M.; Kroll, J. H.; Ng, N. L.; Hildebrandt, L.; Sorooshian, A.; Szmigielski, R.; Vermeylen, R.; Maenhaut, W.; Claeys, M.; Flagan, R. C.; Seinfeld, J. H. (2006) *Chemical Composition of Secondary Organic Aerosol Formed from the Photooxidation of Isoprene*. EPA Graduate Fellowship Conference. Washington, D.C. USA. September 15.
15. **Surratt, J. D.***; Gao, S.; Knipping, E. M.; Edgerton, E. S.; Shahgholi, M.; Edney, E. O.; Kleindienst, T. E.; Lewandowski, M.; Offenberg, J. H.; Jaoui, M.; Seinfeld, J. H. (2005) *Secondary Organic Aerosol Formation from the Photooxidation of Complex Hydrocarbon Mixtures: Composition, Effect of SO₂, and Relevance to Ambient Aerosol*. American Geophysical Union (AGU) Fall Meeting. San Francisco, CA USA. December 7.

TEACHING RECORD*UNC Courses*

Term	Course #	Course Title	Credit Hours	Role	Enrolled Students
Fall 2011	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	5
Spring 2012	ENVR 403	Environmental Chemistry	3	Instructor	15
Fall 2012	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	3
	ENVR 411	Laboratory Techniques & Field Measurements	3	Guest Lecturer	8
	ENVR 451	Elements of Chemical Reaction Engineering	3	Guest Lecturer	8
	ENVR 890	Epidemiology for Environmental Scientists and Engineers	3	Guest Lecturer	8
Spring 2013	ENVR 403	Environmental Chemistry	3	Instructor	11
Fall 2013	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	3
	ENVR 411	Laboratory Techniques & Field Measurements	3	Guest Lecturer	6
	PATH 726	Human Environmental Disease	2	Guest Lecturer	4
Spring 2014	ENVR 403	Environmental Chemistry	3	Instructor	12
Fall 2014	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	7
Spring 2015	ENVR 403	Environmental Chemistry	3	Instructor	8
Fall 2015	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	5
Spring 2016	ENVR 403	Environmental Chemistry	3	Instructor	7
Fall 2016	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	7
Spring 2017	ENVR	Environmental	3	Instructor	17

	403	Chemistry			
Fall 2017	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	13
Spring 2018	ENVR 403	Environmental Chemistry	3	Instructor	13
Fall 2018	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	5
Fall 2018	ENVR 500	Environmental Processes, Exposure and Risk Assessment	3	Co- Instructor	12
Spring 2019	ENVR 403	Environmental Chemistry	3	Instructor	13
Fall 2019	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	11
Fall 2019	ENVR 500	Environmental Processes, Exposure and Risk Assessment	3	Co- Instructor	15
Spring 2020	ENVR 403	Environmental Chemistry	3	Instructor	21
Fall 2020	ENVR 416	Aerosol Physics & Chemistry	4	Instructor	11
Fall 2020	ENVR 500	Environmental Processes, Exposure & Risk Assessment	3	Co- Instructor	19
Spring 2021	ENVR 403	Environmental Chemistry	3	Instructor	24

ADVISING RECORD

Current Graduate Student Supervision – Primary Advisor (3 Ph.D., 1 M.S.)

1. Nicolas Buchenau (M.S., UNC ESE), began Summer 2020.
2. Caz Nichols (Ph.D., UNC ESE), began Summer 2020.
3. Yan Jin (Ph.D., UNC ESE), began Summer 2019.

Current Graduate Student Supervision – Co-Advisor (2 Ph.D.)

1. Marc Webb (Ph.D., UNC ESE), began Fall 2016, co-advised with Prof. Barbara Turpin (UNC)
2. Faria Khan (Ph.D., Polish Academy of Sciences), began Fall 2017, co-advised with Prof. Rafal Szmigielski (Polish Academy of Sciences)

Current Postdoctoral Scholar Supervision – Primary Advisor (0 Total)

None currently.

Current Postdoctoral Scholar Supervision – Co-Advisor (1 Total)

1. Jiaqi Zhou (Postdoctoral Scholar, UNC ESE), began Fall 2018.

Research Advisor to Visiting Scholars (4 total)

1. Faria Khan (Ph.D., Polish Academy of Sciences, Chemistry), December 2019 – November 2020.
2. Erickson Oliveira dos Santos (Ph.D., Universidade Federal do Amazonas, Chemistry), June 2017 – June 2018.
3. Thais Da Silva Barbosa (Ph.D., Universidade Federal Rural do Rio de Janeiro, Chemistry), May 2015 – April 2016.
4. Sophie Tomaz (Ph.D., University of Bordeaux, Chemistry) – September 2014 – November 2014.
5. Kasper Kristensen (Ph.D., Aarhus University, Chemistry) – July 2012 – December 2012.

**Completed Graduate and Undergraduate Student Supervision – Primary Advisor (24)
(7 Ph.D., 8 M.S., 3 M.S.P.H., 1 M.S.E.E., 4 B.S.P.H. Honors Thesis, 1 B.S. Honors Thesis)**

1. Yuzhi Chen (Ph.D., UNC ESE), *“Characterizing the Effects of Aerosol Sulfate, Phase State, and Aging on Secondary Organic Aerosol Formation from Isoprene Epoxydiols,”* December 2020.
2. Ashley Harrill (M.S., UNC ESE), *“Aqueous-Phase Processing of 2-Methyltetrol Sulfates by Hydroxyl Radical Oxidation in Fog and Cloud Water Mimics: Implications for Isoprene-Derived Secondary Organic Aerosol,”* August 2020.
3. Caz Nichols (M.S., UNC ESE), *“Highly Oxidized Compounds from Heterogeneous Oxidation of Isoprene Epoxydiol (IEPOX)-Derived Secondary Organic Aerosol (SOA) Identified using Hydrophilic Interaction Liquid Chromatography Interfaced to Electrospray Ionization High-Resolution Quadrupole Time-of-Flight Mass Spectrometry,”* May 2020.
4. Tianqu Cui (Ph.D., UNC ESE), *“Chemical Characterization of Source-Specific Atmospheric Organic Aerosol via Mass Spectrometry,”* May 2019.
5. Grace Nipp (B.S.P.H., Honors Thesis, UNC ESE), *“Developing a Versatile Exposure System for the Analysis of the Effects of Electronic Cigarettes,”* April 2019.
6. Caitlin Rose (M.S., UNC ESE), *“The Effect of Isomeric Isoprene Epoxydiol Structure on the Sulfur Mass Balance of Fine Particulate Matter,”* January 2019.
7. Zhexi Zeng (M.S., UNC ESE), *“Development of a Hydrophilic Interaction Liquid Chromatography (HILIC) Method for the Chemical Characterization of Water-Soluble Isoprene Epoxydiol (IEPOX)-Derived Secondary Organic Aerosol,”* May 2018.
8. Rachel Long (M.S.P.H., UNC ESE), *“Chemical Characterization and Dithiothreitol Reactivity of Fine Particulate Matter Derived from Fourth Generation E-Cigarette Usage,”* May 2017.

9. Michael M. Williams (M.S., UNC ESE), *“Chemical Characterization and Reactive Oxidant Potential of Indonesian Biomass Burning Emissions,”* April 2017.
10. Hilary S. Green (B. S., Honors Thesis, UNC Chemistry), *“Chemical Characterization of Fine Aerosol Collected from Central Amazonia Reveals that Isoprene-Derived Epoxides and Multifunctional Hydroperoxides Substantially Contributes to the Organic Mass Fraction,”* March 2017.
11. Maiko Arashiro (Ph.D., UNC ESE), *“Understanding the Biological Effects of Isoprene-Derived Secondary Organic Aerosol,”* January 2017.
12. Weruka Rattanavaraha (Ph.D., UNC ESE), *“Chemical Characterization and Source Apportionment of Organic Aerosol, at Urban and Rural Sites in the Southeastern U.S.,”* August 2016.
13. Vineet Raja Gopinathan (B.S.P.H., Honors Thesis, UNC ESE), *“Investigation of the Effect of Aerosol Acidity, Oxidant Type, and Nucleation on MBO-Derived SOA Composition and Yield,”* April 2016.
14. Kevin Chu (M.S., UNC ESE), *“Investigation of the Influences of Anthropogenic Emissions on Isoprene-Derived Secondary Organic Aerosol Formation During the 2013 Southern Oxidant & Aerosol Study at the Birmingham, Alabama Ground Site,”* August 2015.
15. Amanda Kramer (B.S.P.H. Honors Thesis, UNC ESE), *“Assessing the Reactive Oxidant Potential of Isoprene-Derived Epoxides and Secondary Organic Aerosol,”* April 2015.
16. Sri Hapsari Budisulistiorini (Ph.D., UNC ESE), *“Real-Time Chemical Characterization of Atmospheric Organic Aerosol in the Southeastern United States by Aerosol Mass Spectrometry,”* December 2014.
17. Xinxin Li (M.S.P.H., UNC ESE), *“Investigation of the Influences of Anthropogenic Emissions on Isoprene-Derived Secondary Organic Aerosol (SOA) Formation During the 2013 Southern Oxidant & Aerosol Study (SOAS) at the Look Rock, TN, Ground Site,”* August 2014.
18. Kevin Chu (B.S.P.H. Honors Thesis, UNC ESE), *“Formation of Light-Absorbing Secondary Organic Aerosol from Reactive Uptake of Isoprene Epoxydiols,”* April 2014.
19. Tianqu Cui (M.S., UNC ESE), *“Secondary Organic Aerosol Formation from α -Pinene and Toluene: Laboratory Studies Examining the Role of Pre-existing Particles, Relative Humidity and Oxidant Type,”* December 2013.
20. Roger Jerry (M.S.P.H., UNC ESE), *“Model Intercomparison Study of Methacrolein and Methyl Vinyl Ketone from Isoprene Photooxidation,”* December 2013.
21. Ying-Hsuan Lin (Ph.D., UNC ESE), *“Chemical Characterization of Secondary Organic Aerosol Constituents and Critical Intermediates from Isoprene Photooxidation,”* May 2013.
22. Wendy Marth (M.S., UNC ESE), *“Utilizing and Characterizing Chemical Ionization Mass Spectrometry (CIMS) as a Method to Estimate Secondary Organic Aerosol Yields from Isoprene-Derived Epoxides,”* May 2013.
23. Haofei Zhang (Ph.D., UNC ESE), *“Characterization and Simulation of Isoprene Photooxidation from Smog Chamber Studies,”* May 2012.

24. Caitlin L. Rubitschun (M.S.E.E., UNC ESE), "Chemical Characterization of Organosulfates in Fine Aerosols in Bakersfield, California During the 2010 CalNex Field Campaign," May 2012.

Completed Postdoctoral Scholar Supervision – Primary Advisor (7)

1. Yue Zhang (Postdoctoral Scholar, UNC ESE), August 2016 – December 2020. Now at Texas A&M University as an Assistant Professor.
2. Dr. Sarah Petters (Postdoctoral Scholar, UNC ESE), May 2019 – June 2020.
3. Dr. Sophie Tomaz (Postdoctoral Scholar, UNC ESE), August 2016 – September 2018. Now a Research Scientist at CNRS-Lyon in France studying atmospheric chemistry.
4. Dr. Sri Hapsari Budisulistiorini (Postdoctoral Scholar, UNC ESE), January 2015 – August 2015. Now at Nanyang Technological University in Singapore as a Postdoctoral Scholar in Professor Mikinori Kuwata's group.
5. Dr. Matthieu Riva (Postdoctoral Scholar, UNC ESE), February 2014 – January 2016. Now a permanent Research Scientist at CNRS-Lyon in France studying atmospheric chemistry.
6. Dr. Yin-Hsuan Lin (Postdoctoral Scholar, UNC ESE), May 2013 – August 2015. Now at University of California-Riverside as an Assistant Professor in the Department of Environmental Sciences.
7. Dr. Theran Riedel (Postdoctoral Scholar, UNC ESE), September 2013 – October 2015. Now at the U.S. Environmental Protection Agency (EPA) in the Research Triangle Park, NC.

Current Graduate Student Supervision – Committee Member (11 Total)

1. Rebecca Rice (Ph.D., UNC ESE), began Fall 2020
2. Molly Frauenheim (Ph.D., UNC ESE), began Fall 2020
3. Tessa Szalkowski (M.S., UNC ESE), began Fall 2020
4. Clara Eichler (Ph.D., UNC ESE), began Spring 2020
5. Naomi Chang (Ph.D., UNC ESE), began Fall 2019
6. Syed Masood (Ph.D., UNC Toxicology), began Fall 2019
7. Sara Farrell (M.S., UNC ESE), began Fall 2019
8. Cameron Worthington (Ph.D., UNC Chemistry), began Fall 2019, passed prospectus October 2020.
9. Haley Plaas (Ph.D., UNC ESE), began Fall 2019, passed written exam Spring 2021.
10. Christopher Bowers (Ph.D., UNC ESE), began 2018, passed oral exam Spring 2020.
11. Nathaniel Park (Ph.D., Chemistry), began Fall 2018, passed prospectus April 2019.

Completed Graduate Student Supervision – Committee Member (24 Total)

1. Yael-Natalie H. Escobar (Ph.D., UNC Toxicology), “Propylene Glycol and Glycerol, the Unlikely Culprits: A Study of the Biological Effects of Electronic Cigarette Generated Aerosols on Airway Epithelial Cells,” September 2020.
2. Damon M. Smith (Ph.D., NC A&T University), “Measuring the Optical, Physical, and Chemical Properties of Aging Biomass Burning Aerosols Native to sub-Saharan Africa,” March 2020.
3. Chi-Tsan Wang (Ph.D., UNC ESE), “Emissions from the Cultivation of Cannabis and their Impact on Regional Air Quality,” December 2019.
4. Elizabeth Corteselli (Ph.D., UNC ESE), “Polyunsaturated Fatty Acids as Determinants of Redox Changes and Inflammatory Responses in Human Airway Epithelial Cells Exposed to Ozone,” August 2019.
5. Yuchen Wang (Ph.D., HKUST Chemistry), “Organosulfates in Atmospheric Aerosols: Synthesis, Quantification, Ambient Abundance and Insights into Formation Mechanism,” July 2019.
6. Kara Kocheck (M.S., UNC ESE), “Microbial Source Tracking Following Extreme Flooding in Areas of Dense Swine Production,” May 2019.
7. Ryan Schmedding (M.S., UNC ESE), “The Effect of Secondary Organic Aerosol Phase Separation and Viscosity in a Regional Scale Air Quality Model,” May 2019.
8. Kenneth D. Swanson (Ph.D., UNC Chemistry), “Improvements to Real Time Aerosol Analysis Using Ambient Sampling/Ionization Mass Spectrometry,” July 2018.
9. Mutian Ma (M.S., UNC ESE), “The Predicted Impact of Organic Coatings on Isoprene-Derived Secondary Organic Aerosol Formation,” December 2017.
10. Zhenyu Tian (Ph.D., UNC ESE), “Non-Target Analysis of Bioremediated Soil,” December 2017.
11. Yuqiang Zhang (Ph.D., UNC ESE), “Application of Chemical Transport Models to Study Global and Regional Air Quality and Human Health,” January 2016.
12. Mohammad Safi Shalamzari (Ph.D., University of Antwerp, Pharmaceutical Sciences), “Molecular Characterization of Polar Organosulfates in Secondary Organic Aerosol from Isoprene and Unsaturated Aldehydes using Liquid Chromatography/(-) Electrospray Ionization Mass Spectrometry,” December 2015.
13. Geoffroy Duporte (Ph.D., University of Bordeaux, Chemistry), “Secondary Organic Aerosol Formation: Experimental Study of Organosulfate Formation at the Gas-Particle Interface,” December 2014.
14. Sandra E. Spencer (Ph.D., UNC Chemistry), “Development of an Aerosol Mass Spectrometry System for the Analysis of the Composition of Aerosol Particles in Real Time,” November 2014.
15. Matthew Woody (Ph.D., UNC ESE), “On Enhancing Air Quality Model Predictions of Particulate Matter from Aircraft Emissions,” October 2014.

16. Yuzhi Chen (M.S.E.E., UNC ESE), *"Assessment of SAPRC07 with Updated Isoprene Oxidation Chemistry Against Outdoor Chamber Experiments,"* August 2014.
17. Evan Couzo (Ph.D., UNC ESE), *"Air Quality Models and Unusually Large Ozone Increases: Identifying Model Failures, Understanding Environmental Causes, and Improving Modeled Chemistry,"* August 2013.
18. Meridith Fry (Ph.D., UNC ESE), *"The Impacts of Short-Lived Ozone Precursors on Climate and Air Quality,"* March 2013.
19. Xiaolu Zhang (Ph.D., Georgia Institute of Technology - Earth and Atmospheric Sciences) *"Sources, Formation and Properties of Soluble Organic Aerosols: Results from Ambient Measurements in the Southeastern United States and the Los Angeles Basin,"* August 2012.
20. Maiko Arashiro (M.S.E.E., UNC ESE), *"Precision of Measurements with the UNC Passive Aerosol Sampler,"* May 2012.
21. Seth Erbersviller (Ph.D., UNC ESE), *"PM Biological Effect Modification by Gases in Urban Air,"* January 2012.
22. Pamela Birak (Ph.D., ESE), *"Remediation of Multicomponent Dense Nonaqueous Phase Liquids in Porous Media,"* May 2011.
23. Adeola (Adey) Olatosi (M.S., UNC ESE), *"Assessment of Air Quality Model Predictions of Ozone Concentrations Characterized by Large Hourly Changes in Houston, Texas,"* May 2011.
24. Jyoti Bapat (M.S., UNC ESE), *"The Generation of an Experimental Database for Testing Predictive Models for α -Pinene Gas- and Particle-Phase Reactions in the Atmosphere,"* May 2011.

Graduate Student Supervision - Advisee Honors (11 Total)

1. Caz Nichols (Ph.D., UNC ESE): UNC Roysters Graduate Fellowship, awarded Fall 2020.
2. Maiko Arashiro (Ph.D., UNC ESE): Graduate Education Advancement Board Impact Award, awarded April 2015.
3. Sri Hapsari Budisulistiorini (Ph.D., UNC ESE): Student Poster Competition Award Winner at the annual meeting of the American Association for Aerosol Research (AAAR), awarded October 2014.
4. Maiko Arashiro (Ph.D., UNC ESE): Student Travel Award to Annual Meeting of the American Association for Aerosol Research (AAAR), awarded October 2014.
5. Ying-Hsuan Lin (Ph.D., UNC ESE): U.S. EPA Blue Ribbon Paper Award - "For outstanding collaborative efforts to improve the characterization of organic aerosols," awarded Spring 2014.
6. Sri Hapsari Budisulistiorini (Ph.D., UNC ESE): UNC Off-Campus Dissertation Completion Fellowship, Spring 2014.

7. Sri Hapsari Budisulistiorini (Ph.D., UNC ESE): Student Travel Award to Annual Meeting of the American Association for Aerosol Research (AAAR), awarded 2013.
8. Ying-Hsuan Lin (Ph.D., UNC ESE): UNC Dissertation Completion Fellowship, awarded 2012-2013.
9. Sri Hapsari Budisulistiorini (Ph.D., UNC ESE): Fulbright Presidential Fellowship, awarded 2010-2013.
10. Caitlin Rubitschun (M.S.E.E., UNC ESE): Weiss Urban Livability Senior Fellow Award, awarded 2011-2012.
11. Caitlin Rubitschun (M.S.E.E., UNC ESE): Weiss Urban Livability Fellowship, awarded 2010-2011.

Undergraduate Research Students Supervised (13 Total)

1. Lena Gerritz (UNC, B.S. Chemistry) – Fall 2019 – Present
2. Tessa Szalkowski (UNC, B.S. Chemistry) – Spring 2018 – Spring 2020
3. Grace Nipp (UNC, B.S.P.H. ENVR) – Fall 2017 – Spring 2019
4. Caitlin Rose (UNC, B.S.P.H. ENVR) – Fall 2016 – Spring 2017
5. Hilary Green (UNC, B. S. Chemistry) – Spring 2015 – Spring 2017
6. Tashana Detwiler (UNC, B.A. Chemistry) – NSF IDEA Program, Summer 2014 – Spring 2015
7. Vineet Gopinathan (UNC, B.S.P.H. ENVR) – Summer 2014 – Spring 2016
8. Amanda Kramer (UNC, B.S.P.H. ENVR) – Fall 2013 – Spring 2015
9. Gabby Agostini (UNC, B.S. Chemistry) – Summer 2012 – Fall 2012
10. Kevin Chu (UNC, B.S.P.H. ENVR) – Spring 2012 – Spring 2014
11. Caroline Coulter (UNC, B.S. Chemistry) - Fall 2011 – Spring 2012
12. Sarah Park (UNC) – Fall 2011
13. Dominique Moore (UNC) – NSF SMART Program, Summer 2011

GRANTS (Total ~ \$21,758,819)**Current Support (Total - \$18,208,348)**

National Science Foundation (NSF) Atmospheric Chemistry (AGS) "Collaborative Research: Organosulfate Multiphase Chemistry and Physicochemical Properties: Oxidation and Sulfate Recycling in Aerosols and Cloud Droplets "	Surratt (Co-Lead PI)	3/1/2021-2/28/2024 \$899,401 (total) → \$474,387 to UNC
National Science Foundation (NSF) Atmospheric Chemistry (AGS) "Collaborative Research: Reframing Modeling Approaches for Multiphase Chemistry: Isoprene and Beyond"	Surratt (Co-I)	3/1/2021-2/28/2024 \$559,933 (total) → \$409,933 to UNC
National Science Foundation (NSF) Atmospheric Chemistry (AGS) "RAPID: Airborne CoV-2 Viability and Oxidation"	Surratt (Co-I)	8/1/2020 - 7/31/2021 \$199,997 (total)
Alfred P. Sloan Foundation Chemistry of Indoor Environments "Probing the Behavior of Emerging Water-Soluble Organic Compounds in Indoor Air"	Surratt (Co-I)	7/1/2020-6/30/2023 \$500,000 (total)
National Science Foundation (NSF) Atmospheric Chemistry (AGS) "Comparison of Thermal and Non-Thermal Protocols for Analysis of Isoprene Secondary Organic Aerosol (SOA) Generated Under Conditions of Low Nitrogen Oxides (NO _x)"	Surratt (Co-PI)	2/15/2020-1/31/2023 \$596,470 (total)
Food and Drug Administration (FDA) Subcontract from Research Triangle Institute "Identification and Validation of a Biomarker of Electronic Cigarette Exposure"	Surratt (Co-Lead PI)	11/1/2018-10/31/2020 \$264,561 (to UNC)
NC Policy Collaboratory N.C. Per- and Polyfluoroalkyl Substance Testing Network	Surratt (Director)	7/1/2018-4/15/2021 \$5,013,000 (total)
Department of Defense (DOD) Cystic Fibrosis/Pulmonary Research and Treatment Center "Bronchitis in the Military: Diagnosis, Risk Mitigation, and Treatment"	Surratt (Co-I)	7/1/2018-6/30/2022 \$10,000,000 (total)
Sloan Foundation Chemistry of Indoor Environments "Investigating the Impacts of Water-Soluble Organic Gases and Surface Chemistry on Air Composition in Damp Homes"	Surratt (Co-PI)	7/1/2017-6/30/2021 \$750,000 (total)

Completed Research Support (Total - \$3,550,471)

National Science Foundation (NSF) Atmospheric Chemistry (AGS) "Collaborative Research: Impact of Aerosol Viscosity, Phase Separation, and Internal Structure on Isoprene-Derived SOA Formation"	Surratt (Co-Lead PI)	7/1/2017-12/31/2020 \$290,000 (total)
National Oceanic & Atmospheric Administration (NOAA) "Characterizing Oxidized North American Fire Emissions and Their Aqueous/Multiphase Transformations through the FIREX Campaign"	Surratt (Co-Lead PI)	7/1/2016-6/30/2020 \$592,448 (total)
National Science Foundation (NSF) Environmental Chemical Sciences (ECS) "Collaborative Research: Quantifying Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-derived Epoxides to Submicron Aerosol Particles"	Surratt (Lead PI)	11/15/2014-11/14/2018 \$300,000 (total)
UNC School of Medicine TCORS Pilot Grant Program "Chemical Characterization of Submicron Particulate Matter and Vapors Derived from E-Cigarette Usage"	Surratt (Lead-PI)	9/1/2016-8/31/2017 \$50,040 (total)
University of North Carolina CEHS Pilot Projects Program "Using CRISPR/Cas9 Technology to Establish the Role of NRF2 as a Driver of Isoprene SOA-Induced Genomic Stress Response"	Surratt (Co-PI)	9/1/2016-8/31/2017 \$30,000 (direct)
University of Texas at Austin Air Quality Research Program (AQRP) "Condensed Chemical Mechanisms for Ozone and Particulate Matter Incorporating the Latest in Isoprene Chemistry"	Surratt (Co-PI)	9/1/2016-8/30/2017 \$225,000 (total)
National Oceanic & Atmospheric Administration (NOAA) "Organic Nitrogen in Atmospheric Aerosols: Concentrations, Chemical Composition, and Properties"	Surratt (Lead PI)	8/1/2013-7/31/2017 \$262,500 (total)
U.S. Environmental Protection Agency Early Career Award "Impacts of Anthropogenic Emissions in the Southeastern U.S. on Heterogeneous Chemistry of Isoprene-Derived Epoxides Leading to Secondary Organic Aerosol Formation"	Surratt (Lead PI)	3/1/2013-2/28/2017 \$300,000 (total)

Health Effects Institute (HEI) Walter A. Rosenblith New Investigator Award "Understanding the Health Effects of Isoprene-Derived Particulate Matter Enhanced by Anthropogenic Pollutants"	Surratt (Lead PI)	5/1/2013-10/31/2016 \$450,000 (total)
Electric Power Research Institute (EPRI) Subcontract "Field Deployment of the Aerodyne Aerosol Chemical Speciation Monitor (ACSM) within the SEARCH Network"	Surratt (Lead PI)	10/1/2010-12/31/2016 \$449,979 (total)
Camille & Henry Dreyfus Foundation Postdoctoral Program in Environmental Chemistry "Heterogeneous Chemistry of Isoprene-Derived Epoxides Leads to Secondary Organic Aerosol Formation: Implications for Air Quality, Climate, and Public Health in the Southeastern United States"	Surratt (Lead PI)	2/1/2014-1/31/2016 \$120,000 (total)
University of Texas at Austin Air Quality Research Program (AQRP) "Update and Evaluation of Model Algorithms Needed to Predict Particulate Matter from Isoprene"	Surratt (Co-PI)	6/1/2014-6/30/2015 \$200,000 (total)
University of Texas - Austin Sub-Contract "Generation of Exposed Lung Cells Tissues to Various Environmental Conditions"	Surratt (Lead PI)	4/1/2013-8/31/2013 \$14,752 (total)
University of North Carolina CEHS Pilot Projects Program "Understanding the Health Effects of Isoprene-Derived Particulate Matter Enhanced by Anthropogenic Pollutants"	Surratt (Lead PI)	4/1/2012-3/31/2013 \$25,000 (total)
Electric Power Research Institute (EPRI) Subcontract "Chemical Characterization of Toluene and α -Pinene: Influence of NH_3 on Aerosol Composition"	Surratt (Lead PI)	1/1/2012-3/31/2012 \$23,516 (total)
URC Grant Small Grant "Analysis of $\text{PM}_{2.5}$ collected from Beijing, China during the 17 th Annual Asian Games"	Surratt (Lead PI)	6/1/2011-5/31/2012 \$2,500 (total)
RJ Reynolds Fund Award: JR Faculty Award Grant "Chemical Characterization of $\text{PM}_{2.5}$ Collected from the CalNex 2010 Campaign"	Surratt (Lead PI)	1/1/2011-12/31/2011 \$7,500 (total)

Electric Power Research Institute (EPRI) Surratt (Lead PI) Subcontract "PM _{2.5} Conditional Sampling"	10/1/2010-3/31/2012 \$74,295 (total)
Electric Power Research Institute (EPRI) Surratt (Lead PI) Subcontract "Field Deployment of a Scanning Mobility Particle Sizer (SMPS) System in the SEARCH Network"	10/1/2010-6/30/2011 \$99,955 (total)
Alion Science & Technology/U.S. EPA Surratt (Lead PI) Cooperative Agreement "Chemical Characterization of the Organic Fraction in PM _{2.5} Collected During the CalNex-Los Angeles and CalNex-Bakersfield Campaigns during Summer 2010"	5/10/2010-8/10/2010 \$32,986 (total)

PROFESSIONAL SERVICE

International Level

Associate Editor/Editorial Board Member for Scientific Journals

ACS Earth and Space Chemistry (2017-Present)
PeerJ (2017-Present)
AIMS Environmental Science (2017-Present)
Atmospheric Chemistry & Physics (2016-Present)

Reviewer for Scientific Journals (average 3 reviews per month)

Nature Geoscience
Proceedings of the National Academy of Sciences of the United States of America
Environmental Science and Technology
Atmospheric Chemistry and Physics
Analytical Chemistry
Journal of Physical Chemistry A
Journal of American Chemical Society
Atmospheric Environment
Journal of Geophysical Research-Atmospheres
Geophysical Research Letters
Air Quality, Atmosphere and Health
Aerosol and Air Quality Research
Journal of Environmental Monitoring
Physical Chemistry Chemical Physics
Environmental Monitoring
RSC Advances
Journal of Atmospheric Chemistry
Journal of Synchrotron Radiation

Elected to the Board of Directors for the American Association for Aerosol Research (AAAR) - Fall 2017 - Fall 2020

Organizer for the Telluride Science Research Center Workshop on “Organic Particles in the Atmosphere: Formation, Properties, Processing, and Impact” – July 2018

Elected Chair for Aerosol Chemistry Working Group at AAAR - Fall 2015-Fall 2016

Elected Vice-Chair for Aerosol Chemistry Working Group at AAAR - Fall 2014-Fall 2015

Conference Session Co-Chair (6 total)

2012 American Association for Aerosol Research (AAAR) Annual Meeting (Minneapolis, MN): Platform Session on *“Instrumentation and Methods III”*

2012 American Association for Aerosol Research (AAAR) Annual Meeting (Minneapolis, MN): Platform Session on *“Source Apportionment IV”*

2012 American Association for Aerosol Research (AAAR) Annual Meeting (Minneapolis, MN): Platform Session on *“Remote and Regional Atmospheric Aerosols IV”*

2011 American Association for Aerosol Research (AAAR) Annual Meeting (Orlando, FL): Platform Session on *“Organic Aerosol Chemistry II”*

2011 American Association for Aerosol Research (AAAR) Annual Meeting (Orlando, FL): Platform Session on *“Urban Aerosols VIII”*

2007 American Association for Aerosol Research (AAAR) Annual Meeting (Reno, NV): Platform Session on *“Hygroscopicity & Other Physical Properties of Organic Aerosol”*

Peer Review for Grant Proposals

National Science Foundation (NSF) – Atmospheric Chemistry

Department of Energy (DOE) – Research Review Panelist

National Oceanic and Atmospheric Administration (NOAA)

Swiss National Science Foundation (SNSF)

National Level

Invited as an Expert Panelist to Attend the “Workshop to Discuss Policy-Relevant Science to Inform EPA’s Review of the Primary and Secondary National Ambient Air Quality Standards (NAAQS) for the Effect of Particulate Matter (PM)” [Research Triangle Park, NC, at US EPA - February 2015]

State and University Level

Service and Outreach to UNC and NC

Co-Director of Undergraduate Studies – Fall 2017 - Present

Undergraduate Core Public Health Curriculum Workgroup – Fall 2017 - Present

Served on curriculum committee for Curriculum for the Environment and Ecology (CEE)

Served on MSEE Faculty Committee

Presented a talk titled "Trees, Volatile Organic Compounds, and Fine Organic Aerosol Formation: Implications for Air Quality, Climate, and Public Health in the Southeastern U.S." at the Workshop titled "Air Quality Concerns in a Changing Climate: Engaging Students with Atmospheric Science Research (At UNC-Chapel Hill on September 13, 2014)." This teacher workshop was made possible by a NASA Innovations in Climate Education (NICE) Award. There were 28 high school science teachers present at the workshop from across the state of NC.