

# Lelia N. Hawkins

HIXON PROFESSOR OF CLIMATE STUDIES · PROFESSOR OF CHEMISTRY

Harvey Mudd College, 301 Platt Blvd, Claremont, CA 91711

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## Academic Appointments

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2021-	<b>Hixon Professor of Climate Studies</b> , Harvey Mudd College
2023-	<b>Professor</b> , Dept of Chemistry, Harvey Mudd College
2017-2023	<b>Associate Professor</b> , Dept of Chemistry, Harvey Mudd College
2011-2017	<b>Assistant Professor</b> , Dept of Chemistry, Harvey Mudd College
2011-2016	<b>Barbara Stokes Dewey Assistant Professor</b> , Dept of Chemistry, Harvey Mudd College
2010-2011	<b>Postdoctoral Teaching and Research Associate</b> , Dept of Chemistry and Biochemistry, University of San Diego, Dr. David O. De Haan

## Education

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**Scripps Institution of Oceanography, University of California, San Diego** *La Jolla, CA*  
PH.D. OCEANOGRAPHY - CLIMATE SCIENCE *2005-2010*

- Advisor: Dr. Lynn M. Russell
- Dissertation: Understanding the role of organic aerosol in the coastal and remote Pacific marine boundary layer

**University of California, San Diego** *La Jolla, CA*  
B.S. CHEMISTRY AND B.S. ENVIRONMENTAL SYSTEMS *2000-2005*

- Emphasis in Earth Science
- Chemistry Honors

## Awards, Fellowships, & Grants

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2021-2024	<b>Mid-Scale Research Infrastructure</b> , ASCENT: Atmospheric Science and Chemistry Measurement Network, NSF Geosciences	<i>\$12,136,232</i>
2018-2023	<b>Collaborative Research RUI: International Research Experiences for Students (IRES Track 1), Brown carbon aerosol formation by photooxidation of pheolic compounds in nanodroplets</b> , NSF OISE	<i>\$143,000</i>
2018	<b>HMC Student-Faculty Research Award, Co-PI Chris Clark, Intelligent Air Pollution Monitoring</b> , HMC Research Committee	<i>\$8,000</i>
2018	<b>Rasmussen Fund for Environmental Student-Faculty Research, Co-PI Chris Clark, Intelligent Air Pollution Monitoring</b> , HMC Research Committee	<i>\$8,000</i>
2017	<b>Andrew M. Mellon Foundation Course Development Award, Climate Science and Human Behavior</b> , HMC Core Curriculum Director	<i>\$14,000</i>
2016-2021	<b>CAREER Award, Quantifying the formation and persistence of brown carbon compounds through observational and laboratory studies</b> , NSF Geosciences	<i>\$640,000</i>
2014-2016	<b>Cottrell Scholar, class of 2014, An investigation of the role of fog in forming and transforming chromophores in urban organic aerosol</b> , Research Corporation for Science Advancement	<i>\$35,000</i>

## Teaching experience and course development

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*Dates indicate first offering; HCCE is Hixon Center for Climate and the Environment*

2022	<b>STEM and Social Impact: Climate Change</b> , new course, team taught	Core
2022	<b>Modern Atmospheric Chemistry</b> , new course, Co-instructor Prof. Sarah Kavassalis	Chemistry
2019	<b>Climate Science and Human Behavior</b> , new course, co-instructor Prof. Adam Pearson, Pomona College	HCCE
2018	<b>Introduction to Global Climate Change</b> , new course	HCCE
2016	<b>Chemistry in the modern world</b> , new Core course, team taught	Chemistry
2015	<b>Instrumental analysis and laboratory</b> , major course	Chemistry
2015	<b>Introduction to academic writing</b> , Core course, co-instructor W. Meniffee-Libey	Core
2014	<b>Atmospheric chemistry of geoengineering</b> , new course	Chemistry
2013	<b>Chemical Dynamics</b> , Core course	Chemistry
2012	<b>Introductory Chemistry laboratory</b> , Core course	Chemistry
2011	<b>Chemical Analysis and laboratory</b> , Chemistry major course	Chemistry

## Outreach, Service, & Professional Development

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### MEDIA COVERAGE

2020	<b>How the Pandemic is Changing Air Pollution Levels</b> , CBS Sunday Morning	Online
2020	<b>Has the Coronavirus Shutdown Improved Air Quality?</b> , WHYY Philadelphia The Pulse	Radio
2020	<b>Stay-at-home Order Reduces Air Pollution, Offers Clues in Climate Change Fight</b> , Capradio	Radio
2019	<b>What Studying Cloud Chemistry Can Teach Us About Climate Change And The Value Of Student Research</b> , Forbes Education Contributor Maria Klawe	Online

### OUTREACH

2021	<b>The Webb Schools</b> , Guest speaker in Environmental Science, <i>A look at atmospheric aerosol</i>	Virtual
2021	<b>University Club Lunch Series</b> , Guest speaker, <i>Climate Change in 2021</i>	Virtual
2021	<b>Kiwanis, Claremont Chapter</b> , Guest Speaker, Air Pollution and Climate Change	St. Ambrose
2018	<b>University Club Lunch Series</b> , Guest speaker, <i>What's in our air?</i>	A. Hughes Center
2020	<b>Office of Community Engagement, Community Conversations</b> , Guest Speaker, Climate Change and Action	Virtual
2020	<b>Women in STEM (WISTEM)</b> , Guest Speaker, Air Pollution Research at HMC	HMC
2020	<b>Living Learning Community (LLC)</b> , Guest Speaker, <i>Forcing Feedback, and Modern Climate Change</i>	HMC

### SERVICE

2022-	<b>Hixon Center for Climate and the Environment</b> , Director	HCCE
2022-2023	<b>Bruce J. Nelson '74 Speaker Series</b> , Co-organizer	HMC
2022-	<b>Faculty Budget Committee</b> , Committee Member	HMC
2021-	<b>Emphasis in Environmental Analysis</b> , Program Coordinator	HCCE
2021-2022	<b>Presidential Search Committee</b> , Faculty representative	HMC
2021-2022	<b>Core Implementation Committee</b> , Committee Member	HMC
2020-	<b>ESM/MOSS, HMC Sustainability Club</b> , Faculty Advisor	HCCE
2018-2019	<b>HMC Strategic Vision DE&amp;I Steering Committee</b> , Committee Member	HMC
2018-2022	<b>Chemistry Summer Research Program</b> , Coordinator	Dept of Chemistry
2018-2021	<b>Faculty Executive Committee</b> , Elected member	HMC
2016-2021	<b>Upward Bound</b> , Faculty coordinator for expanded summer research internship program	HMC

## PROFESSIONAL DEVELOPMENT

**SENCER Summer Institute Virtual Conference and Workshop.** The Science Education for New Civic Engagement and Responsibilities is a national project focused on empowering faculty and improving STEM teaching and learning by making connections to civic issues. I participated in several impactful sessions including a session on climate education. 2020.

**Behavior-Centered Design for the Environment, RARE virtual workshop.** Taking the approach that environmental challenges are in fact behavioral challenges, we need a better understanding of what motivates people to change. This interactive behavior-centered design training helped participants gain tools and techniques for encouraging more sustainable behaviors. I practiced implementing principles of behavior-centered design in hypothetical sustainability interventions. This helps me advise student sustainability clubs in addition to supporting my curriculum in Climate Science and Human Behavior. 2020.

**Reading group and discussion of Ibram X. Kendi's How to be an Anti-Racist.** The goal of this reading group was to give staff and faculty time to read, reflect, and learn together before the 2020 semester began. I learned about my own assumptions (conscious and unconscious) which shape the way I interact with students and colleagues, and how I can use the power I have in many situations to advocate for practices which can disrupt the historical structure of inequity that benefits white Americans today. 2020.

**Building authentic partnerships: Minority Serving Institutions and Primarily White Institutions working together to improve research and education.** Sponsored by the Research Corporation for Science Advancement, I lead a group of attendees in a process of drafting a proposal for a scholar-in-residence program that would bridge a faculty member at a PWI with a MSI in order to further the careers of both participants. I learned about the opportunities and challenges of teaching at a MSI and what faculty at PWIs could learn from their colleagues. 2018.

## PEER REVIEW

Over the past 5 years I have reviewed 12 proposals for NSF and 26 manuscripts for journals in my field including Environmental Science and Technology, Atmospheric Environment, the Journal of Geophysical Research: Atmospheres, Aerosol Measurements and Technology, Atmospheric Chemistry and Physics, ACS Earth and Space Chemistry, Environmental Research Communications, the Journal of Physical Chemistry, Atmosphere, and Urban Climate.

## PROFESSIONAL MEMBERSHIPS

American Association of Aerosol Research  
American Chemical Society  
American Geophysical Union  
Earth Science Women's Network

## Publications

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### UNDERGRADUATES DENOTED WITH \*

Pearson, A. R. and **L. N. Hawkins** (2023, in press), Action writing: Using op-eds to advance science literacy, In S. Plous (Ed.), Action teaching: Creating a better world through transformative education: A practical guide with award-winning examples. American Psychological Association Books.

De Haan, D. O., **L. N. Hawkins**, J. A. Weber\*, B. T. Moul\*, S. Hui\*, S. A. Cox\*, J. U. Esse\*, N. R. Skochdopole\*, C. P. Lynch\*, A. C. De Haan, C. Le, M. Cazaunau, A. Bergé, E. Pangui, J. Heuser, J.-F. Doussin, and B. Piquet-Varrault (2024), Brown carbon aerosol formation by multiphase catechol photooxidation in the presence of soluble iron, ACS Environmental Science and Technology Air, 1, 8, 909-917, <https://doi.org/10.1021/acsestair.4c00045>.

De Haan, D. O., **L. N. Hawkins**, P. D. Wickremasinghe, A. Andretta, H. G. Welsh, E. Pennington, T. Cui, J. Surratt, M. Cazaunau, E. Pangui, and J.-F. Doussin (2023), Brown carbon from photooxidation of glyoxal and SO<sub>2</sub> in aqueous aerosol, ACS Earth and Space Chemistry, 7, 5, 1131-1140, <https://doi.org/10.1021/acsearthspacechem.3c00035>.

Lee, J. Y., P. K. Peterson, L. R. Vear, R. D. Cook, Amy P. Sullivan, E. N. Smith, **L. N. Hawkins**, N. E. Olson, R. Hems, P. K. Snyder, and K. A. Pratt (2022), Wildfire Smoke Influence on Cloud Water Chemical Composition at Whiteface Mountain, New York, Journal of Geophysical Research: Atmospheres, 127, <https://doi.org/10.1029/2022JD037177>

Van Heuvelen, K. M., G. W. Daub, **L. N. Hawkins**, A. R. Johnson, H. Van Ryswyk, and D. A. Vosburg (2020), How Do I Design a Chemical Reaction To Do Useful Work? Reinvigorating General Chemistry by Connecting Chemistry and Society, Journal of Chemical Education, 97, 4, 925-933, [doi.org/10.1021/acs.jchemed.9b00281](https://doi.org/10.1021/acs.jchemed.9b00281).

De Haan, D. O., **L. N. Hawkins**, K. Jansen\*, H. G. Welsh\*, R. Pednekar\*, A. de Loera\*, N. G. Jimenez\*, M. A. Tolbert, M. Cazaunau, A. Gratien, A. Bergé, E. Pangui, P. Formenti, and JF Doussin (2020), Glyoxal's impact on dry ammonium salts: fast and reversible surface aerosol browning, *Atmospheric Chemistry and Physics*, 20, 9581–9590, doi.org/10.5194/acp-20-9581-2020.

Van Heuvelen, K. M., L. Palucki Blake, G. W. Daub, **L. N. Hawkins**, A. R. Johnson, H. Van Ryswyk, and D. A. Vosburg (2019), Emphasizing Learning: The Impact of Student Surveys in the Reform of an Introductory Chemistry Course, *Journal of Assessment and Institutional Effectiveness*, 9 (1-2): 1–28, https://doi.org/10.5325/jasseinsteffe.9.1-2.0001.

De Haan, D. O., A. Pajunoja, **L. N. Hawkins**, H. G. Welsh\*, N. G. Jimenez\*, A. De Loera\*, Melanie Zauscher, Alyssa D. Andretta, Benjamin W. Joyce, A. C. De Haan, M. Riva, T. Cui, J. D. Surratt, M. Cazaunau, P. Formenti, A. Gratien, E. Pangui, and JF Doussin (2019), Methylamine's Effects on Methylglyoxal-Containing Aerosol: Chemical, Physical, and Optical Changes, *ACS Earth and Space Chemistry*, 3, 9, 1706–1716, doi.org/10.1021/acsearthspacechem.9b00103.

**Hawkins, L. N.**, H. G. Welsh\*, and M. V. Alexander\* (2018), Evidence for pyrazine-based chromophores in cloudwater mimics containing methylglyoxal and ammonium sulfate, *Atmospheric Chemistry and Physics*, 18, 12413-12431, doi.org/10.5194/acp-18-12413-2018.

De Haan, D. O., **L. N. Hawkins**, H. G. Welsh\*, R. Pednekar\*, J. R. Casar\*, E. A. Pennington\*, A. de Loera\*, N. G. Jimenez\*, A. Pajunoja, L. Caponi, M. Cazaunau, P. Formenti, A. Gratien, E. Pangui, and JF Doussin (2017), Brown carbon production in ammonium- or amine-containing aerosol particles by reactive uptake of methylglyoxal and photolytic cloud cycling, *Environmental Science and Technology*, 51, 7458-7466, doi: 10.1021/acs.est.7b00159.

Sanchez, K. J., L. M. Russell, R. L. Modini, A. A. Frossard, L. Ahlm, C. E. Corrigan, G. C. Roberts, **L. N. Hawkins**, J. C. Schroder, A. K. Bertram, R. Zhao, A. K. Y. Lee, J. J. Lin, A. Nenes, Z. Wang, A. Wonaschütz, A. Sorooshian, K. J. Noone, H. Jonsson, D. Toom, A. M. Macdonald, W. R. Leaitch, and J. H. Seinfeld (2016), Meteorological and aerosol effects on marine cloud microphysical properties, *Journal of Geophysical Research: Atmospheres*, 121, 4142-4161, doi: 10.1002/2015JD024595.

**Hawkins, L. N.**, A. N. Lemire\*, M. M. Galloway, A. L. Corrigan\*, J. J. Turley\*, B. M. Espelien\*, and D. O. De Haan (2016), Maillard chemistry in clouds and aqueous aerosol as a source of atmospheric humic-like substances, *Environmental Science and Technology*, 50, 7443-7452, doi: 10.1021/acs.est.6b00909.

Modini, R. L., A. A. Frossard, L. Ahlm, L. M. Russell, C. E. Corrigan, G. C. Roberts, **L. N. Hawkins**, J. C. Schroder, A. K. Bertram, R. Zhao, A. K. Y. Lee, J. P. D. Abbatt, J. Lin, A. Nenes, Z. Wang, A. Wonaschütz, A. Sorooshian, K. J. Noone, H. Jonsson, J. H. Seinfeld, D. Toom-Sauntry, A. M. Macdonald, W. R. Leaitch (2015), Primary marine aerosol-cloud interactions off the coast of California, *Journal of Geophysical Research: Atmospheres*, 120, 9, 4282.

**Hawkins, L. N.**, M. J. Baril\*, N. Sedehi\*, M. M. Galloway, D. O. De Haan, G. P. Schill, and M. A. Tolbert (2014), Formation of Semisolid, Oligomerized Aqueous SOA: Lab Simulations of Cloud Processing, *Environmental Science and Technology*, 48, 2273-2280, doi:10.1021/es4049626.

Zhao, R., A. K. Y. Lee, J. J. B. Wentzell, A. M. McDonald, D. Toom-Sauntry, W. R. Leaitch, R. L. Modini, A. L. Corrigan, L. M. Russell, K. J. Noone, J. C. Schroder, A. K. Bertram, **L. N. Hawkins**, J. P. D. Abbatt, and J. Liggió (2014), Cloud partitioning of isocyanic acid (HNCO) and evidence of secondary source of HNCO in ambient air, *Geophysical Research Letters*, 41(19), 6962-6969, doi:10.1002/2014GL061112.

Powelson, M. H.\*, B. M. Espelien\*, **L. N. Hawkins**, M. M. Galloway, and D. O. De Haan (2013), Brown carbon formation by aqueous-phase carbonyl compound reactions with amines and ammonium sulfate, *Environmental Science and Technology*, 48, 985-993, doi: 10.1021/es4038325.

Saide, P. E., S. N. Spak, G. R. Carmichael, M. A. Mena-Carrasco, Q. Yang, S. Howell, D. C. Leon, J. R. Snider, A. R. Bandy, J. L. Collett, K. B. Benedict, S. P. de Szoeko, **L. N. Hawkins**, G. Allen, I. Crawford, J. Crosier, and S. R. Springston (2012), Evaluating WRF-Chem aerosol indirect effects in Southeast Pacific marine stratocumulus during VOCALS-REx, *Atmospheric Chemistry and Physics*, 12, 3045-3064, doi:10.5194/acp-12-3045-2012.

Yang, M., B. J. Huebert, B. W. Blomquist, S. G. Howell, L. M. Shank, C. S. McNaughton, A. D. Clarke, **L. N. Hawkins**, L. M. Russell, D. S. Covert, D. J. Coffman, T. S. Bates, P. K. Quinn, N. Zgorac, A. R. Bandy, S. P. de Szoeko, P. D. Zuidema, S. C. Tucker, W. A. Brewer, K. B. Benedict, and J. L. Collett (2011), Atmospheric sulfur cycling in the southeastern Pacific: longitudinal distribution, vertical profile, and diel variability observed during VOCALS-REx, *Atmospheric Chemistry and Physics*, 11, 5079-5097, doi:10.5194/acp-11-5079-2011.

Lapina, K., C. L. Heald, D. V. Spracklen, S. R. Arnold, J. D. Allan, H. Coe, G. McFiggans, S. R. Zorn, F. Drewnick, T. S. Bates, **L. N. Hawkins**, L. M. Russell, A. Smirnov, C. D. O'Dowd, and A. J. Hind (2011), Investigating organic aerosol loading in the remote marine environment, *Atmospheric Chemistry and Physics*, 11, 8847-8860, doi:10.5194/acp-11-8847-2011.

De Haan, D., **L. N. Hawkins**, J. Kononenko\*, J. J. Turley\*, A. Corrigan\*, M. A. Tolbert, and J. L. Jimenez (2011), Formation of Nitrogen-Containing Oligomers by Methylglyoxal and Amines in Simulated Evaporating Cloud Droplets, *Environmental Science and Technology*, 45, 984-991, doi: 10.1021/es102933x.

**Hawkins, L. N.** and L. M. Russell (2010), Oxidation of ketone groups in transported biomass burning aerosol from the 2008 Northern California Lightning Series fires, *Atmospheric Environment*, 44(34), 4142-4154, doi:10.1016/j.atmosenv.2010.07.036.

**Hawkins, L. N.** and L. M. Russell (2010), Polysaccharides, Proteins, and Phytoplankton Fragments: Four Chemically Distinct Types of Marine Primary Organic Aerosol Classified by Single Particle Spectromicroscopy, *Advances in Meteorology*, vol. 2010, 612132, doi:10.1155/2010/612132.

Russell, L. M., **L. N. Hawkins**, A. A. Frossard, P. K. Quinn, and T. S. Bates (2010), Carbohydrate-Like Composition of Submicron Atmospheric Particles and their Production from Ocean Bubble Bursting, *Proceedings of the National Academy of Sciences*, 107 (15), 6652, doi:10.1073/pnas.0908905107.

**Hawkins, L. N.**, L. M. Russell, D. S. Covert, P. K. Quinn, and T. S. Bates (2010), Carboxylic acids, sulfates, and organosulfates in processed continental organic aerosol over the southeast Pacific ocean during VOCALS-REx 2008, *Journal of Geophysical Research*, 115, D13201, doi:10.1029/2009JD013276.

Russell, L. M., R. Bahadur, **L. N. Hawkins**, J. Allan, D. Baumgardner, P. K. Quinn, and T. S. Bates (2009), Organic aerosol characterization by complementary measurements of chemical bonds and molecular fragments, *Atmospheric Environment*, 43, 6100-6105.

Russell, L. M., S. Takahama, S. Liu, **L. N. Hawkins**, D. S. Covert, P. K. Quinn, and T. S. Bates (2009), Oxygenated fraction and mass of organic aerosol from direct emission and atmospheric processing measured on the R/V Ronald Brown during TEXAQS/ GoMACCS 2006, *Journal of Geophysical Research*, 114, doi:10.1029/2008JD011275.

**Hawkins, L. N.**, L. M. Russell, C. H. Twohy, and J. R. Anderson (2008), Uniform particle-droplet partitioning of 18 organic and elemental components measured in and below DYCOMS-II stratocumulus clouds, *Journal of Geophysical Research*, 113, D14201, doi:10.1029/2007JD009150.

## Presentations

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### INVITED TALKS. 2017-PRESENT

Summer 2020. *Why climate literacy matters now*. Invited as keynote speaker: Scientific Education for New Civic Engagements and responsibilities (SENCER) Summer Institute, Virtual Conference.

Spring 2020. *Just add water: exploring the role of aqueous phase chemistry in creating light-absorbing atmospheric compounds*. Invited seminar: UC Irvine Department of Chemistry.

Fall 2019. *Quantifying pyrazine based products in cloud water mimics containing ammonium sulfate and methylglyoxal*. Invited talk: American Chemical Society Fall Meeting, San Diego, CA.

Summer 2019. *High Resolution Observations: Chemistry of Cities*. Invited session chair and speaker: Gordon Research Conference in Atmospheric Chemistry, Sunday River ME.

Spring 2019. *Urban atmospheric chemistry: using source apportionment to understand organic aerosol properties in the Los Angeles basin*. Invited seminar: Scripps Institution of Oceanography, UCSD.

Spring 2019. *Urban atmospheric chemistry: using source apportionment to understand organic aerosol properties in the Los Angeles basin*. Invited seminar: UC Riverside, Riverside, CA.

Fall 2018. *Sources of atmospheric brown carbon: using complex ambient measurements and simple laboratory studies to understand the chemistry of chromophore formation*. Invited seminar: UC Davis Agricultural Environmental Chemistry, Davis, CA.

Spring 2018. *Urban atmospheric chemistry, state of current science, critical open questions and possible future directions*. Invited session lead and speaker: Inaugural NSF-NCAR PI meeting, Boulder CO.

Spring 2018. *Maillard-like chemistry as a source of absorbing organic aerosol*. Invited seminar: Michigan Tech University, Houghton, MI.

### CONTRIBUTED PRESENTATIONS. 2017-PRESENT

\* mentored undergraduate; + presenting author

**Hawkins, L. N.**, L. Conrad-Marut\*, E. N. Smith\*, D. O. De Haan, C. Carmona, D. Ugland, M.-K. Tran, J.-F. Doussin, M. Cazaunau, A. Gratién, P. Formenti, C. Di Biagio, M. Giordano, F. E. F. Graeffe, L. M. Heikkinen, M. Ehn, P. De Carlo, M. Riva, M. Contin. 2023. Photochemical production of light-absorbing syringol secondary organic aerosol (SOA) in droplets using an atmospheric simulation chamber. Poster presentation. American Association of Aerosol Research. Portland, OR.

Riley, S\*, D. Pronovost\*\*, **L. N. Hawkins**, L. Di Antonio, A. Beauville, A. Berge, M. Cazaunau, P. Chelin, S. Chevallier, A. Feron, F. Maisonneuve, C. Cantrell, V. Michoud, C. Di Biagio, and A. Gratién. 2022. Chemical Characterization of Ambient Aerosol during the 2022 ACROSS Campaign at the Urban Paris Site. Poster presentation. American Association of Aerosol Research, Raleigh, NC.

Smith, E. N.\*\*\*, L. Conrad-Marut\*, **L. N. Hawkins**, D. O. De Haan, C. Carmona, D. Ugland, M.-K. Tran, J.-F. Doussin, M. Cazaunau, A. Gratién, P. Formenti, C. Di Biagio, M. Giordano, F. E. F. Graeffe, L. M. Heikkinen, M. Ehn, P. De Carlo, M. Riva, M. Contin. 2022. Secondary organic aerosol production from photochemical reactions of syringol in cloud mimics. Poster presentation. American Chemical Society Spring Meeting. San Diego, CA.

- Williams, A.\*\* and **L. N. Hawkins**. 2022. An Intercomparison of Optical and Electrical Mobility Particle Sizers Informed by Aerosol Chemistry. Poster presentation. American Chemical Society Spring Meeting. San Diego, CA.
- Weber, J. A.\*\* , **L. N. Hawkins**, D. O. De Haan, B. Moul\*, S. Hui, S. Cox, J. Esse, N. Skotchdopole, M. Cazaunau, A. Berge, E. Pangui, B. Picquet-Varrault, J.-F. Doussin. 2022. Characterization of Secondary Organic Aerosol Formed From Catechol and Guaiacol in a Multiphase Cloud Simulation Chamber. Poster presentation. American Chemical Society Spring Meeting. San Diego, CA.
- Hawkins, L. N.\***, S. Kavassalis, B. Moul\*, C. Wright\*, and J. Casar. 2021. Using Constrained Source Apportionment to Characterize Water Soluble Brown Carbon in Los Angeles Summertime Organic Aerosol. American Association of Aerosol Research Fall Meeting. Virtual poster presentation.
- Hawkins, L. N.\***, L. Conrad-Marut<sup>+</sup>, E. N. Smith<sup>+</sup>, D.O. De Haan, C. Carmona, D. Umland, M.-K. Tran, J.-F. Doussin, M. Cazaunau, A. Gratién, P. Formenti, C. Di Biagio, M. Giordano, F. E. F. Graeffe, L. M. Heikkinen, M. Ehn, P. De Carlo, M. Riva, M. Contin. 2021. Production of brown aqueous SOA from syringol in an atmospheric simulation chamber. Oral Presentation. ACS Pacificchem Virtual Meeting.
- Smith, E. N.\*\* , L. Conrad-Marut<sup>+</sup>, **L. N. Hawkins**, D.O. De Haan, C. Carmona, D. Umland, M.-K. Tran, J.-F. Doussin, M. Cazaunau, A. Gratién, P. Formenti, C. Di Biagio, M. Giordano, F. E. F. Graeffe, L. M. Heikkinen, M. Ehn, P. De Carlo, M. Riva, M. Contin. 2021. Brown carbon production from heterogeneous reactions of syringol in an atmospheric simulation chamber. Virtual poster presentation. ACS Pacificchem Virtual Meeting.
- Hawkins, L. N.\***, S. J. Jones<sup>+</sup>, L. R. Mazzoleni, S. K. Schum, and M. Khaksari. 2019. Quantifying pyrazinebased products in cloud water mimics containing ammonium sulfate and methylglyoxal: Effects of evaporation and pH on product formation. Oral presentation. American Chemical Society Fall Meeting, San Diego, CA.
- Hawkins, L. N.\***, H. G. Welsh<sup>+</sup>, M. V. Alexander, S. Schum, M. Khaksari, and L. Mazzoleni. 2018. Evidence for pyrazine-based chromophores in cloud water mimics containing methylglyoxal and ammonium sulfate. Oral presentation. American Association for Aerosol Research Fall Meeting. St Louis, MO.
- Hawkins, L. N.\***, H. G. Welsh<sup>+</sup>, and M. V. Alexander<sup>+</sup>. 2017. The pH dependence of brown carbon formation in Maillard chemistry. Poster presentation. American Geophysical Union Fall Meeting. New Orleans, LA.
- Hawkins, L. N.\***, H. G. Welsh<sup>+</sup>. 2017. Characterizing brown carbon formation and persistence in various conditions: cloud-water pH, evaporation, and photodegradation. Poster presentation. American Association of Aerosol Research Fall Meeting. Raleigh, NC.
- Welsh, H. G.\*\* , M. V. Alexander<sup>+</sup>, and **L. N. Hawkins**. 2017. Chemical and optical properties of model brown carbon systems characterized by UV/visible spectroscopy and aerosol mass spectrometry. Poster presentation. American Chemical Society Spring Meeting, San Francisco, CA.