Eric M. Leibensperger

Ithaca College · Department of Physics & Astronomy
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Education

Ph.D. Harvard University, School of Engineering and Applied Sciences, Applied Physics
Thesis: Interaction of Air Quality and Climate: Consequences of US Emissions Controls
Advisor: Daniel J. Jacob

S.M. Harvard University, School of Engineering and Applied Sciences, Applied Physics

B.A. Ithaca College, Chemistry and Physics

Teaching Experience

Assistant/Associate Professor (Tenured)	**Ithaca College - Department of Physics & Astronomy**
Fall 2022-2025	PHYS 101 - Introduction to Physics
Fall 2023	PHYS 110 - Intro. Math. and Computational Skills for Physics
Spring 2021, 2023-2026, Fall 2025	PHYS/ENVS 147 - Time to Act: The Science & Politics of Climate Change
Spring 2026	PHYS/ENVS 148 - Forecasting the Skies: An Introduction to Weather
Spring 2023-2026	PHYS 260 - Intermediate Physics Laboratory
Spring 2022	PHYS 280 - Learning Assistant Practicuum in Physics
Fall 2020, 2021	PHYS 301/310 - Mathematical Methods of Physics
Fall 2020, 2022, 2024	PHYS 305/323 - Electromagnetism
Spring 2021	PHYS 360 - Advanced Physics Laboratory
Spring 2022	PHYS 470 - Selected Topics in Advanced Physics (Fluid Mechanics)
Spring 2022	PHYS 498 - Senior Thesis II
Fall 2021	PHYS 497 - Senior Thesis I
Fall 2020-Fall 2025	28 Independent Student Research Projects
Summer	Summer Scholar Research Students (2021 - 2; 2022 - 1; 2023 - 2; 2024 - 2; 2025 - 2)

Assistant/Associate Professor (Tenured)	**SUNY Plattsburgh - Center for Earth and Environmental Science**
Spring 2019	HON 176 - Honors Seminar: War on Science (Gen. Ed.)
Fall 2016-2019; Spring 2018	ENV 206 - Environmental Technology
Fall 2014-2019	GEL 391 - Physical Oceanography and Limnology
Spring 2014, 2016-2018, 2020	ENV 366 - Global Climate Change (Gen. Ed.)
Spring 2013, 2015, 2017, 2019	ENV/GEL 406 - Climate Change Science
Fall 2012-2019; Spring 2013-2020	ENV/GEL 306 - Atmospheric Processes
Fall 2012-2015; Spring 2013-2016	ENV 340 - Environmental Science Seminar
Fall 2012, 2013	GEL 291 - Oceanography
Fall 2012-Spring 2020	Research Mentor to a total of 31 Undergraduate Students

Module Co-author	**Carleton College Science Education Resource Center (SERC)**
2014-2017	Interdisciplinary Teaching about Earth for a Sustainable Future (InTeGrate) module "Regulating Carbon Emissions to Mitigate Climate Change" with Pinar Batur (Vassar), Robyn Smyth (Bard), Curt Gervich (SUNY Plattsburgh), Gautam Sethi (Bard), Sandra Penny (Bard)

Teaching Fellow/Research Mentor	**Harvard University**
Fall 2008	EPS 208 - Physics of Climate
Spring 2008; 2009	ES 6 - Environmental Science and Technology (Head TF)
Summer 2007; 2008	Summer Research Experience for Undergraduates (REU)
Fall 2007	EPS 133 - Intro. to Atmospheric Chemistry

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Other Positions Held

Independent Consultant for Model Development Summer 2015 - Fall 2016	**Harvard University** School of Engineering and Applied Science
Postdoctoral Associate Spring 2011 - Fall 2012	**Massachusetts Institute of Technology** Department of Earth, Atmospheric and Planetary Science Advisor: R. Alan Plumb (Stratospheric transport and dynamics)
Graduate Research Assistant Fall 2005 - Spring 2011	**Harvard University** School of Engineering and Applied Science Advisor: Daniel J. Jacob (Atmospheric chemistry and climate)
Research Assistant Summer 2005	**Ithaca College** Department of Physics Advisor: Beth Clark (Photometric modeling of asteroid Eros 443)
Dana Intern/Undergraduate Researcher Summer 2004	**Ithaca College** Department of Physics Advisor: Luke Keller (Composition of protostellar debris disks)
Lewis' Education and Research Collaborative Intern Summer 2003	**NASA Glenn Research Center** Advisor: Michael A. Meador Research Topic: Synthesis of polyacenes through photoenolization

Honors and Awards

2025	**Ithaca College School of Humanities and Sciences Dean's Merit Award**
2024	**Ithaca College Faculty Excellence Award for Scholarship and Creative Work**
2022	**Sigma Xi**, Full Member of Scientific Research Society
2019	**SUNY Chancellor's Award for Scholarship and Creative Activities**
2018	**Featured Scholar,** SUNY Plattsburgh Celebration of Scholarship
2008 - 2011	**US EPA Science to Achieve Results (EPA-STAR),** Graduate Fellowship
2008	**Harvard University Certificate of Distinction in Teaching**
2005	**Sigma Xi**, Associate Member of Scientific Research Society
2004	**Dana Internship Award at Ithaca College**
2004	**Sigma Pi Sigma,** Physics Honor Society
2002	**Ithaca College First Year Award in Mathematics**
2001 - 2005	**Grimley Trust Scholarship**
2001 - 2005	**Ithaca College Dean's Scholarship**

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Funding | $954,322 in external funds total (Ithaca College/SUNY Plattsburgh portions)

2024 - 2025 **New York State Energy Research and Development Authority**
"Modification to Long-Term Monitoring of Methane within New York State Phase III: Harmonizing *in-situ* and satellite observations to constrain the methane source"
Principal Investigator with Lee Murray (Rochester) - **$15,600** awarded to Ithaca College

2023 - 2026 **Great Lakes Fisheries Commission**
"Deep lake limnology in Lake Champlain: The role of climate change and storm events"
Principal Investigator with Tim Mihuc (SUNY Plattsburgh) - **$29,675** awarded to Ithaca College

2023 - 2024 **New York State Energy Research and Development Authority**
"Modification #2 to Observations in Support of Methane Source Characterization within New York State" Principal Investigator - **$38,865** awarded to Ithaca College

2022 - 2025 **New York State Department of Agriculture and Markets**
"Methane and nitrous oxide measurement on NYS dairy farms and manure systms"
Principal Investigator with Lauren Ray (Cornell) - **$190,498** awarded to Ithaca College

2022 - 2025 **New York State Energy Research and Development Authority**
"Long-Term Monitoring of Methane within New York State Phase III: Harmonizing *in-situ* and satellite observations to constrain the methane source"
Principal Investigator with Lee Murray (Rochester) - **$31,226** awarded to Ithaca College

2022 - 2023 **New York State Energy Research and Development Authority**
"Modification to Observations in Support of Methane Source Characterization within New York State"
Principal Investigator - **$48,182** awarded to Ithaca College

2021 - 2023 **New York State Energy Research and Development Authority**
"Mobile Laboratory Measurements of Methane, Ethane, and Co pollutants from Landfills, Oil and Gas Systems and Other Sources in New York State"
Principal Investigator with James Schwab (Albany), Lee Murray (Rochester) and Roisin Commane (Columbia) - **$87,978** awarded to Ithaca College

2020 - 2021 **New York State Energy Research and Development Authority**
"Observations in Support of Methane Source Characterization within New York State"
Principal Investigator - **$49,913** awarded to Ithaca College

2019 - 2021 **New York State Energy Research and Development Authority**
"Long-Term Monitoring of Methane within New York State Phase II: Assessing Trends in Sources and Characterizing Hot Spots"
Principal Investigator with Lee Murray (Rochester) and Roisin Commane (Columbia) - **$40,585** awarded to Ithaca College/SUNY Plattsburgh

2019 - 2020 **National Oceanic and Atmospheric Administration Lake Champlain Sea Grant**
"Upwelling in South Main Lake – Identifying Events and Assessing Impacts"
Principal Investigator with Tom Manley (Middlebury College) - **$144,406** awarded to SUNY Plattsburgh

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2017 - 2019 **National Science Foundation**
"Collaborative Research: Common Problem Pedagogy (CP^2)"
Co-Investigator with Dr. James Liszka (SUNY Plattsburgh), Bruce Mattingly and Steven Broyles (SUNY Cortland), Jan Bowers and Joshua Nollenberg (SUNY Oneonta), and Lorrie Clemo and Fehmi Damkaci (SUNY Oswego) - **$81,414** awarded to SUNY Plattsburgh

2016 - 2019 **New York State Energy Research and Development Authority**
"Long-term Monitoring of Methane within New York State: Assessing the Impact of Shifting Energy Portfolios on Regional Air Quality and Climate"
Principal Investigator with Lee Murray (Rochester) - **$101,213** awarded to SUNY Plattsburgh

Summer 2016 **Lake Champlain Research Consortium**
"Monitoring Lake Champlain to Assess Future Climate Change Impacts"
with undergraduate Will Pierce - **$5,000** awarded to SUNY Plattsburgh

2016 - 2018 **National Oceanic and Atmospheric Administration Lake Champlain Sea Grant**
"Monitoring Lake Champlain to Assess Future Climate Change Impacts"
Principal Investigator - **$66,767** awarded to SUNY Plattsburgh

2015 - 2016 **Interdisciplinary Teaching about Earth for a Sustainable**
[InTeGrate through the Science Education Resource Center at Carleton College]
"Geoscience to policy: Regulating carbon emissions to mitigate climate change"
Co-Principal Investigator with Curt Gervich (CEES), Sandra Penny (Sage), Robyn Smyth and Gautam Sethi (Bard), and Pinar Batur (Vassar) - **$15,000**

2014 **SUNY Research Foundation STEM Undergraduate Research Program**
Presidential Research Award - **$5,000**

2013 - 2014 **SUNY Research Foundation 4E Network of Excellence**
"Adirondack Air Chemistry and Climate: Developing a Collaborative Partnership"
Principal Investigator with James Schwab (Albany) and Huiting Mao (SUNY ESF) - **$3,000**

Peer-Reviewed Publications (*students are italicized*)

Catena, A. M., M. L. Smith, L. T. Murray, **E. M. Leibensperger**, J. Zhang, M. J. Schwab, and J. J. Schwab (2025) "Aerial estimates of methane and carbon dioxide emission rates using a mass balance approach in New York State" *Earth Syst. Sci.*, 17, 4555-4568, doi: 10.5194/essd-17-4555-2025

Loman, M L., L. T. Murray, **E. M. Leibensperger**, and J. D. Maasakkers (2025) "A high-resolution inventory of anthropogenic methane emissions in New York State" *Environ. Sci. Technol.* 59 (32), doi: 10.1021/acs.est.5c7245

Carrea, L., C. J. Merchant, R. I. Woolway, J..-F. Creatux, T.M. Dokulil, H. Dugan, A. Laas, **E. Leibensperger**, S.-I. Matsuzaki, D. Pierson, O.O. Rusanovskaya, S.V. Shimaraeva, E.A. Silow, M. Schmid, M.A. Timofeyev, and P. Verburg (2025) "Lake Surface Water Temperature" in State of the Climate 2024, *Bull. Amer. Meteor. Soc.*, 106 (8), doi: 10.1175/BAMS-D-25-0102.1

Murray, L. T., **E. M. Leibensperger**, L. J. Mickley, and A. P. K. Tai (2024) "Estimating future climate change impacts on human mortality and crop yields via air pollution" *Proc. Natl. Acad. Sci USA*, 121 (39), doi: 10.1073/pnas.240011721

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Carrea, L., C. J. Merchant, R. I. Woolway, J..-F. Creatux, T.M. Dokulil, H. Dugan, A. Laas, **E. Leibensperger**, S.-I. Matsuzaki, L. J. Merio, D. Pierson, O.O. Rusanovskaya, S.V. Shimaraeva, E.A. Silow, M. Schmid, M.A. Timofeyev, and P. Verburg (2024) "Lake Surface Water Temperature" in State of the Climate 2023, *Bull. Amer. Meteor. Soc.*, 105 (8), doi: 10.1175/2024BAMSStateoftheClimate.1

Weil, M., ***J. Cooney***, ***M. Hossain***, ***M. Konieczny***, and **E. M. Leibensperger** (2023) "Contributing to a Greener NY: Analysis of Methane Emissions in NYS" *J. Undergrad. Rep. Phys.*, 33, 100007, doi: 10.1063/10.0022471

Carrea, L., C. J. Merchant, J.-F. Creatux, C. DeGasperi, T.M. Dokulil, H. Dugan, B. Gibbes, A. Laas, **E. M. Leibensperger**, S. Maberly, L. May, S.-I. Matsuzaki, G. Monet, D. Pierson, M. Pulkkanen, O.O. Rusanovskaya, S.V. Shimaraeva, E.A. Silow, M. Schmid, M.A. Timofeyev, P. Verburg, R.I. Woolway (2023) "Lake Surface Water Temperature" in State of the Climate 2022, *Bull. Amer. Meteor. Soc.*, 104 (9). doi: 10.1175/BAMS-23-0090.1

Leibensperger, E. M., ***M. Konieczny***, and ***M. Weil*** (2023) "Uncertainty in the Mobile Observation of Wind" *Atmosphere*, 14, 765, doi: 10.3390/atmos14050765

Catena, A. M., J. Zhang, R. Commane, L. T. Murray, M. J. Schwab, **E. M. Leibensperger**, J. M. Marto, M. L. Smith, and J. J. Schwab (2022) "Hydrogen sulfide emission properties from two large landfills in New York State" *Atmosphere*, 13, 1251, doi: 10.14434/josotl.v22i2.31645

Liszka, J., R. Card, P. Clark, K. J. Coleman, **E. Leibensperger**, B. Mattingly, M. McGuire, J. Nollenberg, K. Vanslyke-Briggs, and L. Wilson (2022) "The Common Problems Project: An interdisciplinary, community-engaged, problem-based pedagogy" *Journal of the Scholarship of Teaching and Learning*, 22, 2, 96-118, doi: 10.14434/josotl.v22i2.31645

Murray, L. T., **E. M. Leibensperger**, C. Orbe, L. J. Mickley, and M. Sulprizo (2021) "GCAP 2.0: A global 3-D chemical transport model framework for past, present, and future climate scenarios" *Geosci. Model Dev.*, 14, 5789-5823, doi: 10.5194/gmd-14-5789-2021

Zhang, H., S. Wu, and **E. M. Leibensperger** (2021) "Source-receptor relationships for atmospheric mercury deposition in the context of global change" *Atmos. Env.*, 254, doi: 10.1016/j.atmosenv.2021.118349

Penny, S. M., R. Smyth, G. Sethi, **E. M. Leibensperger**, C. Gervich, and P. Batur (2019) "Multidisciplinary and Topical in the Science Classroom: Regulating Carbon Emissions to Mitigate Climate Change" in *Interdisciplinary Teaching About Earth and the Environment for a Sustainable Future*, Goesselin, D. C., A. E. Egger, and J. Taber (Eds.), Springer

Mao, J., A. Carlton, R. C. Cohen, W. H. Brune, J. L. Jimenez, H. O. T. Pye, N. L. Ng, B. McDonald, C. Warneke, J. de Gouw, L. J. Mickley, **E. M. Leibensperger**, R. Mathur, and L. Horowtiz (2018) "Southeast Atmosphere Studies: Learning from model-observation syntheses" *Atmos. Chem. Phys.,* 18, 2615-2651, doi:10.5194/acp-18-2615-2018

Shen, L., L. J. Mickley, and **E. M. Leibensperger** (2017) "Atlantic Multidecadal Oscillation drives multidecadal variablility of summertime surface air quality in the eastern United States" *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL075905.

Cusworth, D. H., L. J. Mickley, **E. M. Leibensperger**, and M. J. Iacono (2017) "Aerosols as a driver of enhanced U.S. surface solar radiation since the early 21st century and resulting hydrological impacts" *Atmos. Chem. Phys.*, 17, 13559-13572, doi:10.5194/acp-17-13559-2017

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Fiore, A. M., V. Naik, and **E. M. Leibensperger** (2015) "A Summary of the 45th A&WMA Critical Review: Air Quality and Climate Connections" *EM Magazine,* June, 32-35.

Fiore, A. M., V. Naik, and **E. M. Leibensperger** (2015) "Critical Review: Air quality and connections" *J. Air Waste Manage.*, 65(6), 646-685

Oswald, E., L.-A. Dupigny Giroux, **E. M. Leibensperger**, R. Poirot, and J. Merrell (2015) "Climate controls on air quality in the Northeastern U.S.: An examination of summertime ozone statistics during 1993-2012" *Atmos. Environ.*, 112, 278-288

Leibensperger, E. M. and R. A. Plumb (2014) "Effective diffusivity in baroclinic flow" *J. Atmos. Sci.*, 71(3), 972-984

Barrett, S. R. H., S. H. L. Yim, C. K. Gilmore, L. T. Murray, S. R. Kuhn, A. P. K. Tai, R. M. Yantosca, D. W. Byun, F. Ngan, X. Li, J. Levy, A. Ashok, J. Koo, H. M. Wong, O. Dessens, S. Balasubramanian, G. G. Fleming, C. Wollersheim, R. Malina, M. N. Pearlson, S. Arunachalam, F. S. Binkowski, **E. M. Leibensperger**, D. J. Jacob, J. I. Hileman, and I. A. Waitz (2012) "Public health, climate and economic impacts of desulfurizing jet fuel" *Environ. Sci. Technol.* , 26, 4275-4282

Leibensperger, E. M., L. J. Mickley, D. J. Jacob, W.-T. Chen, J. H. Seinfeld, A. Nenes, P. J. Adams, D. G. Streets, N. Kumar, and D. Rind (2012) "Climatic effects of 1950-2050 changes in US anthropogenic aerosols - Part 2: Climate response" *Atmos. Chem. Phys.*, 12, 3349-3362

Leibensperger, E. M., L. J. Mickley, D. J. Jacob, W.-T. Chen, J. H. Seinfeld, A. Nenes, P. J. Adams, D. G. Streets, N. Kumar, and D. Rind (2012) "Climatic effects of 1950-2050 changes in US anthropogenic aerosols - Part 1: Aerosol trends and radiative forcing" *Atmos. Chem. Phys.*, 12, 3333-3348

Tai, A. P. K., L. J. Mickley, D. J. Jacob, **E. M. Leibensperger**, L. Zhang, J. A. Fisher, and H.O.T. Pye (2012) "Meteorological modes of variability for fine particulate matter ($PM_{2.5}$) air quality in the United States: Implications for $PM_{2.5}$ sensitivity to climate change" *Atmos. Chem. Phys.*, 12, 3131-3145

Mickley, L. J., **E. M. Leibensperger**, D. J. Jacob, and D. Rind (2012) "Removal of aerosol optical depths over the United States causes large regional warming in a transient 2010-2050 climate simulation" *Atmos. Environ.*, 46, 545-553

Wang, Q., D. J. Jacob, J. A. Fisher, J. Mao, **E. M. Leibensperger**, C. C. Carouge, P. Le Sager, Y. Kondo, J. L. Jimenez, M. J. Cubison, and S. J. Doherty (2011) "Sources of carbonaceous aerosols and deposited black carbon in the Arctic in winter-spring: Implications for radiative forcing" *Atmos. Chem. Phys.*, 11, 12453-12473

Fisher, J. A., D. J. Jacob, Q. Wang, R. Bahreini, C. C. Carouge, M. J. Cubison, J. E. Dibb, T. Diehl, J. L. Jimenez, **E. M. Leibensperger**, M. B. J. Meinders, H. O. T. Pye, P. K. Quinn, S. Sharma, A. van Donkelaar, and R. M. Yantosca (2011) "Sources, distribution, and acidity of sulfate-ammonium aerosol in the Arctic in winter-spring" *Atmos. Environ.*, 45, 7301-7318

Murphy, D. M., J. C. Chow, **E. M. Leibensperger**, W. C. Malm, C. McDade, M. Pitchford, B. A. Schichtel, J. G. Watson, W. H. White (2011) "Decreases in elemental carbon and fine particle mass in the United States" *Atmos. Chem. Phys.*, 11, 4679-4686

Leibensperger, E. M., L. J. Mickley, D. J. Jacob, and S. R. H. Barrett (2011) "Intercontinental influence of NO_x and CO emissions on particulate matter air quality" *Atmos. Environ.*, 45, 3318-3324

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Kopacz, M., D. L. Mauzerall, J. Wang, **E. M. Leibensperger**, D. K. Henze, and K. Singh (2011) "Origin and radiative forcing of black carbon transported to the Himalayas and Tibetan Plateau" *Atmos. Chem. Phys.*, 11, 2837-2852

Leibensperger, E. M., L. J. Mickley, and D. J. Jacob (2008) "Sensitivity of US air quality to mid-latitude cyclone frequency and implications of 1980-2006 climate change" *Atmos. Chem. Phys.*, 8, 7075-7086

Wu, S., L. J. Mickley, **E. M. Leibensperger**, D. J. Jacob, D. Rind, D. G. Streets (2008) "Effects of 2000-2050 global change on ozone air quality in the United States" *J. Geophys. Res.*, 113, D06302, doi: 10.1029/2007JD008917

Hudman, R. C., D. J. Jacob, S. Turquety, **E. M. Leibensperger**, L. T. Murray, S. Wu, A.B. Gilliland, M. Avery, T. H. Bertram, W. Brune, R. C. Cohen, J. E. Dibb, F. M. Flocke, A. Fried, J. Holloway, J. A. Neuman, R. Orville, A. Perring, X. Ren, G. W. Sachse, H. B. Singh, A. Swanson, and P. J. Wooldridge (2007) "Surface and lightning sources of nitrogen oxides over the United States: magnitudes, chemical evolution, and outflow" *J. Geophys. Res.*, 112, D12S05, doi: 10.1029/2006JD007912

Chen, C. H., B. A. Sargent, C. Bohac, K. H. Kim, **E. Leibensperger**, M. Jura, J. Najita, W. J. Forrest, D. M. Watson, G. C. Sloan, and L. D. Keller (2006) "Spitzer IRS Spectroscopy of IRAS-Discovered Debris Disks" *Astrophys. J. Suppl. S.*, 166, 351-377

Sloan, G. C., L. D. Keller, W. J. Forrest, **E. Leibensperger**, B. Sargent, A. Li, J. Najita, D. M. Watson, B. R. Brandl, C. H. Chen, J. D. Green, F. Markwick-Kemper, T. L. Herter, P. D'Alessio, P. W. Morris, D. J. Barry, P. Hall, P. C. Meyers, and J. Houck (2005) "Mid-Infrared Spectra of Polycyclic Aromatic Hydrocarbon Emission in Herbig Ae/Be Stars" *Astrophys. J.*, 632, 956-963

Select Presentations

April 26, 2023 — **Seven Years of Data Buoy Observations of Lake Champlain**
Remote — Lake Champlain Sea Grant, University of Vermont

March 7, 2023 — **Contributing to a Greener NY: Analysis of methane emissions in NYS**
Las Vegas, NV — March Meeting of the American Physical Society (*undergraduate Matthew Weil*)

April 9, 2022 — **Mobile Observationns of Major Methane Sources in New York State**
Rochester, NY — Rochester Symposium for Physics, Astronomy, and Optics Students (*undergraduate Jacob Cooney*)

March 15, 2022 — **Mobile observations of methane to constrain agricultural greenhouse gas emissions**
Chicago, IL — March Meeting of the American Physical Society (*undergraduate Muhtasim Hossain*)

November 17, 2021 — **Upwelling in Lake Champlain's South Main Lake: Identifying events and assessing impacts**
Remote — Lake Champlain Sea Grant, University of Vermont

May 5, 2020 — **Aerosols and climate during the early 20th century**
Plattsburgh, NY — CEES Student Research Symposium (*undergraduate Fuji Maneesai*)

April 17, 2020 — **Climate change in the Lake Champlain Basin: What's already happened and where we are headed**
Remote/Zoom — Zoom a Scientist, Lake Champlain Sea Grant Webinar Series for middle and high school students

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March 7, 2020 Burlington, VT	**Data buoys in Lake Champlain: Real-time observations** State of the Lake Champlain Fisheries Meeting
Sept. 10, 2020 Grand Isle, VT	**SUNY Plattsburgh data buoys and climate change in Lake Champlain** Lake Champlain Basin Program Executive Committee
July 23, 2019 Wilmington, NY	**Climate change in the Adirondacks: Observed change and emissions monitoring** Falconer Lecture Series at Whiteface Mountain Field Station
May 9, 2019 Plattsburgh, NY	**Climate change in the Adirondacks** CEES Student Research Symposium (*undergraduate Alexandria Elliot*)
May 9, 2019 Plattsburgh, NY	**Analysis of simulated methane concentrations at various locations in New York State** CEES Student Research Symposium (*undergraduate Joseph Judge*)
May 9, 2019 Plattsburgh, NY	**Seasonality of climate change** CEES Student Research Symposium (*undergraduate Fuji Maneesai*)
May 9, 2019 Plattsburgh, NY	**Weather and air quality in New York State: Late 2018 pollution event** CEES Student Research Symposium (*undergraduate Inna Slager*)
May 9, 2019 Plattsburgh, NY	**Covariation of air pollutants at Whiteface Mountain** CEES Student Research Symposium (*undergraduate Shafik Vadsirya*)
Oct. 27, 2018 Silver Bay, NY	**Climate change in the Adirondacks: Causes, Impacts, Projections** North Country Climate Reality Conference (*undergraduate Alexandria Elliott*)
Jan. 8, 2018 Burlington, VT	**Climate change and intraseasonal variability in Lake Champlain** L. Champlain Research Conference (*presented by Mark Malchoff*)
Jan. 8, 2018 Burlington, VT	**Development of a Lake Champlain Anglers' Temperature Database** L. Champlain Research Conference (*undergraduate Joseph Judge*)
Nov. 11, 2018 Durham, NC	**Regional climate change: Detection, attribution, prediction** Duke University
May 3, 2017 Plattsburgh, NY	**Observed and projected temperature change in Lake Champlain** CEES Student Research Symposium (*undergraduate Vasu Govani*)
May 3, 2017 Plattsburgh, NY	**Calculating the carbon flux within Lake Champlain** CEES Student Research Symposium (*undergraduate Grace DeSantis*)
Dec. 13, 2016 San Francisco, CA	**Assessing climate change within Lake Champlain (NY, VT, QC)** American Geophysical Union Fall Meeting
May 5, 2016 Plattsburgh, NY	**Climate change in Lake Champlain: Modeling future warming** CEES Student Research Symposium (*undergraduates Conor McCormick and Nicholas Campagna*)
May 5, 2016 Plattsburgh, NY	**How well can we model the Ice Storm of 1998? Assessing the accuracy of cloud microphysics schemes** CEES Student Research Symposium (*undergraduate student David Bubbins*)

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June 9, 2015 Princeton, NJ	**Anthropogenic aerosols and the evolution of 20th century U.S. climate** Southeast Atmosphere Studies Workshop, NOAA GFDL/Princeton University
May 7, 2015 Plattsburgh, NY	**Modeling thermal structure of a small Adirondack lake** CEES Student Research Symposium (*graduate student Sarah Glancy*)
May 7, 2015 Plattsburgh, NY	**Chemical composition of Adirondack snow** CEES Student Research Symposium (*undergraduates Casey Corrigan and Neil Sedlak*)
April 14, 2015 Montreal, QC	**Does air pollution impact U.S. drought?** Department of Atmospheric and Oceanic Science, McGill University
Dec 19, 2014 San Francisco, CA	**Anthropogenic aerosols and the evolution of U.S. droughts** American Geophysical Union Fall Meeting
Dec. 5, 2014 Palisades, NY	**Does air pollution impact drought? Influence of sulfate and BC on U.S. climate** Lamont-Doherty Earth Observatory, Columbia University
Sep. 26, 2014 Plattsburgh, NY	**Anthropogenic aerosols and the dust bowl** NYS Section of the American Physical Society (*undergraduate Evan Cazavilan*)
Sep. 26, 2014 Plattsburgh, NY	**Speak for the trees: What can be learned from Champlain Valley tree core data** New York State Section of the American Physical Society (*undergraduate Ryan Revette*)
March 27, 2012 Ithaca, NY	**Connecting US air pollution to international air quality and climate change** Department of Chemistry, Ithaca College
October 6, 2011 New York, NY	**Interactions between air quality and climate** SEAS Colloquium in Climate Science, Columbia University
Sep.12, 2011 Cambridge, MA	**Climate effects of US anthropogenic aerosols** Atmospheric Science Seminar Series, MIT
June 10, 2011 Cambridge, MA	**Interactions between US air quality and climate** Joint Program on the Science and Policy of Global Change, MIT
May 3, 2011 Cambridge, MA	**Climate effects of US aerosol sources: aerosol trends, radiative forcing, and climate response** 5th International GEOS-Chem Meeting, Harvard University
July 11, 2010 Halifax, NS	**Climate response to 1950-2050 US aerosol trends** ICACGP/IGAC
March 31, 2010 Princeton, NJ	**Climate response to changing US aerosol sources** NOAA GFDL
Feb. 12, 2010 New York, NY	**Climate response to changing US aerosol sources** NASA GISS
Dec. 19, 2008 San Francisco, CA	**Regional climate response to US aerosol sources** American Geophysical Union Fall Meeting
Feb. 21, 2007	**Air quality degradation due to greenhouse warming decreasing the frequency of mid**

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Research	**latitude cyclones**
Triangle Park, NC	EPA Workshop on Consequences of Global Change for Air Quality

Professional Activities

Academic Peer Reviewer

Journals	Atmospheric Chemistry and Physics, Atmos. Environ., Climate Dynamics, Climate Research, Climatic Change, Current Pollution Reports (editorial board), Environmental Research Letters, Environmental Science & Technology, Geo. Res. Lett., Hydrology, Journal of Climate, Journal of Geophysical Research - Atmosphere, Nature Geoscience, PNAS, Scientific Reports
Grant Agencies	NASA, NOAA, NSF, U.K. Natural Environment Research Council
Professional Memberships	American Geophysical Union, American Meteorological Society (full member), American Physical Society, Sigma Xi, Clinton County Environmental Health & Safety Professional Advisory Committee (2015-2020)

Outreach

Science Consultant Spring 2021 - present	Town of Dryden/Mother's Out Front
Scientific Reviewer 2012 - 2020	Raymond Johnson's climate change column in the Plattsburgh *Press Republican*
Educator 2019	Teacher training event with Lake Champlain Sea Grant on R/V Melosira
Presenter 2019	Falconer Lecture Series at Whiteface Mountain ASRC Lodge "Climate change in the Adirondacks: Observed change and emissions monitoring"
Presenter 2019	Lake Champlain Basin Program Executive Committee, "SUNY Plattsburgh data buoys and climate change in Lake Champlain"
Panelist 2019	Mountain Lake PBS Climate Change Forum (recorded and aired)
Media Expert 2019	North Country Public Radio (NPR), Glens Falls Post Star, and Adirondack Daily Enterprise
Presenter 2018	North Country Climate Reality Conference "Climate change in the Adirondacks" with undergraduate student Alexandria Elliot
Presenter 2017	Lake Champlain United Anglers meeting "Temperatures in Lake Champlain: Can climate research be of use to anglers?"
Judge 2013-2017	Champlain Valley Regional Science Fair
Presenter 2016	Science@30City "Climate Change: What's Left to Argue?"

Eric M. Leibensperger

Presenter 2016	CEES Fridays in the Center Series "Climate Change is no April Fools' Joke"
Presenter 2016	SUNY Plattsburgh College Council "Overview of Lake Champlain Research"
Presenter 2016	Plattsburgh Rotary Club "Overview of Lake Champlain Research"
Panelist 2015	SUNY Plattsburgh Honors Center National Issues Forum on Climate Change
Co-organizer 2015	SUNY Plattsburgh's contribution to SUNY-wide forum on extreme weather and climate change (included on-campus events open to public)
Scientific Reviewer 2013 - 2016	Climate Literacy and Energy Awareness Network (CLEAN)
Co-organizer 2014	SUNY Plattsburgh 50th Anniversary of the Wilderness Act Celebration
Presenter 2014	Earth and Environmental Science Club Lecture Series "Air!"
Presenter 2013	Environmental Action Committee Earth Week "Super Storms!"
Lecturer 2012	Northeast States for Coordinated Air Use Management "Short-lived climate forcers"

University Service

At Ithaca College

Member Spring 2022 - present	Humanities and Sciences Academic Status Appeals Committee
Secretary Fall 2021 - present	Paulen A. Smith Chapter of Sigma Xi at Ithaca College
Co-organizer Fall 2021 - present	Physics & Astronomy Colloquium Series
Advisor Fall 2020 - present	Ithaca College Men's Club Lacrosse
Faculty Presenter Spring 2023	Grants 101 Workshop
Organizer/Proposer Fall 2021 - Spring 2022	Ithaca College grant submission to the Sherman Fairchild Foundation
Co-developer Spring 2021	Applied Physics Minor

Eric M. Leibensperger

At SUNY Plattsburgh

Associate Lake Champlain Research Institute
Fall 2012 - Spring 2020

Chair Water Quality Faculty Search Committee
Fall 2019 - Spring 2020

Member Feinberg Library Undergraduate Research Award Committee
Fall 2015 - Spring 2020

Ph.D. Committee Ying Zhou (SUNY-ESF)
Fall 2015 - 2019

Chair Soil Science Faculty Search Committee
Fall 2017 - Spring 2019

Faculty Senator SUNY Plattsburgh
Fall 2015 - Spring 2019

Chair Water Quality Modeling, Geology, Soil Science Faculty Search Committee (3 positions)
Spring 2017

Member Aquatic and Terrestrial Ecologist Faculty Search Committee
Fall 2016 - Spring 2017

Member CEES Curriculum Committee
Fall 2012 - Spring 2017

Member Wetland/Forest Ecologist Faculty Search Committee
Spring 2016

CEES Rep. Freshman Orientation
Summer 2015; 2016

Panelist Honors Center National Issues Forum on Climate Change
Spring 2015

Presenter, Museum Docents Meeting, Wilderness Act and the Adirondack Art Walk
Spring 2015

Co-organizer SUNY-wide extreme weather and climate change forum
Fall 2014 - Spring 2015
Co-planner New York State Section of the American Physical Society Topical Meeting
Summer 2014

Co-organizer SUNY Plattsburgh 50th Anniversary of the Wilderness Act Celebration
Summer 2014

Co-developer Environmental Physical Science major
Spring - Fall 2014)

Participant SUNY Distance Mentored Undergraduate Research