

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
Fall 2023
Spring 2021, 2023-2026, Fall 2025
Spring 2026
Spring 2023-2026
Spring 2022
Fall 2020, 2021
Fall 2020, 2022, 2024
Spring 2021
Spring 2022
Spring 2022
Fall 2021
Fall 2020-Fall 2025
Summer
PHYS 101 - Introduction to Physics
PHYS 110 - Intro. Math. and Computational Skills for Physics
PHYS/ENVS 147 - Time to Act: The Science & Politics of Climate Change
PHYS/ENVS 148 - Forecasting the Skies: An Introduction to Weather
PHYS 260 - Intermediate Physics Laboratory
PHYS 280 - Learning Assistant Practicum in Physics
PHYS 301/310 - Mathematical Methods of Physics
PHYS 305/323 - Electromagnetism
PHYS 360 - Advanced Physics Laboratory
PHYS 470 - Selected Topics in Advanced Physics (Fluid Mechanics)
PHYS 498 - Senior Thesis II
PHYS 497 - Senior Thesis I
28 Independent Student Research Projects
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
Fall 2016-2019; Spring 2018
Fall 2014-2019
Spring 2014, 2016-2018, 2020
Spring 2013, 2015, 2017, 2019
Fall 2012-2019; Spring 2013-2020
Fall 2012-2015; Spring 2013-2016
Fall 2012, 2013
Fall 2012-Spring 2020
HON 176 - Honors Seminar: War on Science (Gen. Ed.)
ENV 206 - Environmental Technology
GEL 391 - Physical Oceanography and Limnology
ENV 366 - Global Climate Change (Gen. Ed.)
ENV/GEL 406 - Climate Change Science
ENV/GEL 306 - Atmospheric Processes
ENV 340 - Environmental Science Seminar
GEL 291 - Oceanography
Research Mentor to a total of 31 Undergraduate Students

Module Co-author
2014-2017
Carleton College Science Education Resource Center (SERC)
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
Fall 2008
Spring 2008; 2009
Summer 2007; 2008
Fall 2007
Harvard University
EPS 208 - Physics of Climate
ES 6 - Environmental Science and Technology (Head TF)
Summer Research Experience for Undergraduates (REU)
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 systems"
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 (CP²)"
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., L. T. Murray, J. Zhang, **E. M. Leibensperger**, R. Commane, M. L. Smith, M. J. Schwab, A. Hallward-Driemeier, M. L. Loman, and J. J. Schwab (2026) "Intercomparison of methane emission rate methods using aerial and ground-level mobile monitoring at New York State landfills" *ACS ES&T Air*, 3, 16-29, doi: 10.1021/acsestair.5c00145
- 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. Maasackers (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

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- 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
- 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. Horowitz (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 variability of summertime surface air quality in the eastern United States" *Geophys. Res. Lett.*, 44, doi:10.1002/2017GL075905.

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- 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
- 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

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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

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
Remote

Seven Years of Data Buoy Observations of Lake Champlain
Lake Champlain Sea Grant, University of Vermont

March 7, 2023
Las Vegas, NV

Contributing to a Greener NY: Analysis of methane emissions in NYS
March Meeting of the American Physical Society (*undergraduate Matthew Weil*)

April 9, 2022
Rochester, NY

Mobile Observations of Major Methane Sources in New York State
Rochester Symposium for Physics, Astronomy, and Optics Students
(*undergraduate Jacob Cooney*)

March 15, 2022
Chicago, IL

Mobile observations of methane to constrain agricultural greenhouse gas emissions
March Meeting of the American Physical Society (*undergraduate Muhtasim Hossain*)

November 17, 2021
Remote

Upwelling in Lake Champlain's South Main Lake: Identifying events and assessing impacts
Lake Champlain Sea Grant, University of Vermont

May 5, 2020
Plattsburgh, NY

Aerosols and climate during the early 20th century
CEES Student Research Symposium (*undergraduate Fuji Maneesai*)

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

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- 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*)
- 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

Eric M. Leibensperger

- Dec. 19, 2008 **Regional climate response to US aerosol sources**
San Francisco, CA American Geophysical Union Fall Meeting
- Feb. 21, 2007 **Air quality degradation due to greenhouse warming decreasing the frequency of mid**
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 Town of Dryden/Mother's Out Front
Spring 2021 - present

Scientific Reviewer Raymond Johnson's climate change column in the Plattsburgh
2012 - 2020 *Press Republican*

Educator Teacher training event with Lake Champlain Sea Grant on R/V Melosira
2019

Presenter Falconer Lecture Series at Whiteface Mountain ASRC Lodge
2019 "Climate change in the Adirondacks: Observed change and emissions monitoring"

Presenter Lake Champlain Basin Program Executive Committee,
2019 "SUNY Plattsburgh data buoys and climate change in Lake Champlain"

Panelist Mountain Lake PBS Climate Change Forum (recorded and aired)
2019

Media Expert North Country Public Radio (NPR), Glens Falls Post Star, and Adirondack Daily
2019 Enterprise

Presenter North Country Climate Reality Conference
2018 "Climate change in the Adirondacks" with undergraduate student Alexandria Elliot

Presenter Lake Champlain United Anglers meeting
2017 "Temperatures in Lake Champlain: Can climate research be of use to anglers?"

Judge Champlain Valley Regional Science Fair
2013-2017

Eric M. Leibensperger

Presenter 2016	Science@30City "Climate Change: What's Left to Argue?"
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 Humanities and Sciences Academic Status Appeals Committee
Spring 2022 - present

Secretary Paulen A. Smith Chapter of Sigma Xi at Ithaca College
Fall 2021 - present

Co-organizer Physics & Astronomy Colloquium Series

Fall 2021 - present

Advisor Ithaca College Men's Club Lacrosse

Fall 2020 - present

Faculty Presenter Grants 101 Workshop
Spring 2023

Organizer/Proposer Ithaca College grant submission to the Sherman Fairchild Foundation
Fall 2021 - Spring 2022

Eric M. Leibensperger

Co-developer Applied Physics Minor
Spring 2021

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