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PROFESSIONAL EXPERIENCE

PROFESSOR, Massachusetts Institute of Technology, Institute for Data, Systems and Society and Department of Earth, Atmospheric and Planetary Sciences, Cambridge, MA, USA, July 2021-pres.

DIRECTOR, Technology and Policy Program, Massachusetts Institute of Technology, Cambridge, MA, USA, September 2018-present.

ASSOCIATE DIRECTOR, Institute for Data, Systems, and Society, Massachusetts Institute of Technology, Cambridge, MA, USA, September 2018-pres.

ASSOCIATE PROFESSOR, Massachusetts Institute of Technology, Institute for Data, Systems and Society and Department of Earth, Atmospheric and Planetary Sciences, Cambridge, MA, USA, July 2015-June 2021
(with tenure as of 2017)

CO-DIRECTOR, Superfund Research Program, Massachusetts Institute of Technology Center for Environmental Health Sciences, Cambridge, MA, USA 2019-2021.

CO-DIRECTOR, Policy Laboratory, Massachusetts Institute of Technology Center for International Studies, Cambridge, MA, USA, September 2017-2020.

ASSOCIATE DIRECTOR, Technology and Policy Program, Massachusetts Institute of Technology, Cambridge, MA, USA, September 2015-December 2017.

ASSISTANT PROFESSOR, Massachusetts Institute of Technology, Engineering Systems Division and Department of Earth, Atmospheric and Planetary Sciences, Cambridge, MA, USA, January 2010-July 2015.

RESEARCH SCIENTIST, Massachusetts Institute of Technology, Center for Global Change Science and Joint Program on the Science and Policy of Global Change, Cambridge, MA, USA, May 2009-December 2009.

POSTDOCTORAL ASSOCIATE, Massachusetts Institute of Technology, Center for Global Change Science and Joint Program on the Science and Policy of Global Change, Cambridge, MA, USA, November 2007-May 2009.

GRADUATE RESEARCHER, Harvard University, Atmospheric Chemistry Modeling Group, Department of Earth and Planetary Sciences, Cambridge, MA, USA, September 2002-November 2007

TEAM LEADER, WRITER, EDITOR AND ISSUE EXPERT, International Institute for Sustainable Development (IISD), **Earth Negotiations Bulletin and Linkages**, June 2003-December 2005

RESEARCH ASSOCIATE, Harvard Kennedy School, Initiative on Science and Technology for Sustainability, and **MANAGING EDITOR**, Forum on Science and Technology for Sustainability, Cambridge, MA, September 2001-September 2002

FULBRIGHT FELLOW, European Environment Agency and University of Copenhagen, Copenhagen, Denmark, September 2000-September 2001

RESEARCH FELLOW, Harvard Kennedy School, Global Environmental Assessment Project, Cambridge, MA, September 1998-September 2000

ENVIRONMENTAL CAREERS ORGANIZATION ASSOCIATE, U.S. Environmental Protection Agency, Office of Pollution Prevention and Toxics, Chemical Control Division, Washington, DC, June 1999-August 1999
Office of International Activities, Washington, DC, June 1998-August 1998, June 1997-August 1997

INTERN, United States Senate, Office of Senator John F. Kerry, Washington, DC, March 1996-June 1996

EDUCATION

Ph.D., Earth and Planetary Sciences, Harvard University (2007)

M.A., Earth and Planetary Sciences, Harvard University (2000)

B.A., Environmental Science and Public Policy, Harvard University, *magna cum laude* with highest honors (2000)

ACADEMIC AND PROFESSIONAL HONORS (since 2010)

Hans Fischer Senior Fellowship, Technical University of Munich-Institute for Advanced Study (2018-2022)
Honorable Mention (Runner-Up), Harold and Margaret E. Sprout Award for Best Book in International Environmental Politics, International Studies Association, for *Mercury Stories* (2022)
Best Paper Second Runner-Up, *Environmental Science: Processes and Impacts* (2020) for Thackray et al.
McKinnon Walker Trust Fellowship, University of Wollongong, Australia (2020) *Cancelled due to COVID-19
Invited speaker, U.S.-E.U. Frontiers of Engineering (2019)
Best Paper Nominee, *Environmental Science: Processes and Impacts* (2018), for Giang et al., and Perlinger et al.
Second Runner-Up, Best Feature, *Environmental Science and Technology* (2018) for Chen et al.
Joseph A. Martore (MIT 1975) Award for Exceptional Contributions to Education in the MIT Institute for Data, Systems and Society (with K. Oye) (2018)
Best Environmental Policy Paper, *Environmental Science and Technology* (2016) for Wolfe et al.
AAAS Leshner Leadership Institute Public Engagement Fellow (2016-2017)
Best Environmental Policy Paper, *Environmental Science and Technology* (2015) for Giang et al.
Kavli Fellow: Invited Participant, U.S. National Academies Kavli Frontiers of Science Symposium (2015)
Esther and Harold E. Edgerton Career Development Professorship, Massachusetts Institute of Technology (2013-2016)
Member, Global Young Academy (2014-2018)
MIT Technology and Policy Program Faculty Appreciation Award (2013)
Leopold Leadership Fellow (2013-2014)
U.S. National Science Foundation CAREER award (Atmospheric Chemistry) (2011-2017)

PROFESSIONAL SERVICE (selected, since 2018)

Co-Chair, MIT Climate Nucleus (2021-pres.), Implementing committee for Fast Forward: MIT's Climate Action Plan for the Decade
Co-organizer, Special Feature, Proceedings of the National Academy of Sciences, "Modeling Dynamic Systems for Sustainable Development" (with W. C. Clark and A. Giang), 2023
Journal service: Associate Editor, *Science Advances* (2021-pres.); Editorial Advisory Board, *Environmental Science & Technology* (2021-pres.); Advisory Board, *Environmental Science: Processes and Impacts* (2018-pres.)
International Advisory Board for UN Environment's International Environmental Technology Center (2018-pres.)
MIT Press Editorial Board (2017-pres.)
MIT Energy Initiative Energy Council (2021-pres.)
Scientific Steering Committee, International Conference on Mercury as a Global Pollutant
Scientific Advisory Committee, Center for Air, Climate, and Energy Solutions (CACES) (Carnegie Mellon University, University of Washington, and others) (2017-2022)

PUBLICATIONS¹

Book

1. Selin, H. and N. E. Selin. 2020. *Mercury Stories: Understanding Sustainability through a Volatile Element*. Cambridge, MA: MIT Press.

Peer-Reviewed Journal Articles [* indicates supervised postdoc or student]

110. *L. M. Freese, G. Chossiere, S. D. Eastham, A. Jenn, and N.E. Selin. 2023. "Nuclear Power Generation Phaseouts Redistribute U.S. Air Quality and Climate Related Mortality Risk." *Nature Energy*, <https://doi.org/10.1038/s41560-023-01241-8>.

¹ Note: Prior to 2004, publications are under N. Eckley
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109. S. D. Eastham, E. Monier, D. Rothenberg, S. Paltsev, and **N. E. Selin**. 2023. “Rapid estimation of climate-air quality interactions in integrated assessment using a response surface model.” *ACS Environmental Au*, <https://doi.org/10.1021/acsenvironau.2c00054>.
108. T. Carter, C. L. Heald, and **N. E. Selin**. 2023. “Large mitigation potential of smoke PM_{2.5} in the US from human-initiated fires.” *Environmental Research Letters*, 18:014002.
107. *F. Kinniburgh, H. Selin, **N. E. Selin**, and M. Schreurs. 2023. “When private governance impedes multilateralism: The case of international pesticide governance.” *Regulation and Governance*, 17:425-448.
106. *M. Qiu, C. M. Zigler, and **N. E. Selin**. 2022. “Impacts of wind power on air quality, premature mortality, and exposure disparities in the US.” *Science Advances*, 8(48) eabn8762.
105. H. Selin and **N. E. Selin**. “From Stockholm to Minamata and Beyond: Governing Mercury Pollution for a More Sustainable Future.” 2022. *One Earth*, 5(10):1109-1125.
104. *W. Atkinson, S. D. Eastham, Y.-H. H. Chen, J. Morris, S. Paltsev, C. A. Schlosser, and **N. E. Selin**. “A Tool for Air Pollution Scenarios (TAPS v1.0) to enable global, long-term, and flexible study of climate and air quality policies.” 2022. *Geosci. Model Dev.*, 15:7767–7789, <https://doi.org/10.5194/gmd-15-7767-2022>.
103. *M. Qiu, C. M. Zigler, and **N. E. Selin**. 2022. “Statistical and machine learning methods for evaluating trends in air quality under changing meteorological conditions.” *Atmospheric Chemistry and Physics* 22, 10551-10566.
102. H. Selin and **N. E. Selin**. 2022. “The Human-Technical-Environmental Systems Framework for Sustainability Analysis.” *Sustainability Science*, <https://doi.org/10.1007/s11625-022-01177-0>
101. *A. Feinberg, *T. Dlamini, M. Jiskra, V. Shah and **N. E. Selin**. 2022. “Evaluating atmospheric mercury (Hg) uptake by vegetation in a chemistry-transport model.” *Environmental Science: Processes and Impacts*, 24, 1303-1318.
100. A.T. Schartup, A. L. Soerensen, H. Angot, K. Bowman, and **N. E. Selin**. 2022. “What are the likely changes in mercury concentration in the Arctic atmosphere and ocean under future emissions scenarios?” *Science of the Total Environment*, 836:155477.
99. M. Yuan, A. Barron, **N. E. Selin**, *P. Picciano, L. Metz, J. Reilly and H. Jacoby. 2022. “Meeting U.S. Greenhouse Gas Emissions Goals with the International Air Pollution Provision of the Clean Air Act.” *Environmental Research Letters*, 17(5):054019.
98. A. Hrdina, I. N. Kohale, S. Kaushal, *J. Kelly, **N. E. Selin**, B. P. Engelward, and J. H. Kroll. 2022. “The Parallel Transformations of Polycyclic Aromatic Hydrocarbons in the Body and in the Atmosphere.” *Environmental Health Perspectives* 130(2).
97. *H. Angot, *E. Rutkowski, M. Sargent, S. C. Wofsy, L. R. Hutyra, D. Howard, D. Obrist, and **N. E. Selin**. 2021. “Atmospheric mercury sources in a coastal-urban environment: A case study in Boston, Massachusetts, USA.” *Environmental Science: Processes & Impacts*, 23, 1914-1929.
96. *J. Kelly, P. Ivatt, M. J. Evans, J. H. Kroll, A. Hrdina, I. N. Kohale, F. M. White, B. P. Engelward, and **N. E. Selin**. 2021. “Global Cancer Risk from Unregulated Polycyclic Aromatic Hydrocarbons.” *GeoHealth*, 5, e2021GH000401.
95. *Y. Zhang, S. Eastham, A.K.H. Lau, J.C.H. Fung and **N.E. Selin**. 2021. “Global Impacts of Domestic and International Shipping.” *Environmental Research Letters*, 16, 084055.
94. **N. E. Selin**. 2021. “Lessons from a Pandemic for Systems-Oriented Sustainability Research.” *Science Advances*, 7, eabd8988.
93. H. Selin, *Y. Zhang, R. Dunn, **N.E. Selin** and A. K. H. Lau. 2021. “Mitigation of CO₂ emissions from International Shipping through National Allocation.” *Environmental Research Letters*, 16(4):045009.
92. *M. Qiu, Y. Weng, J. Cao, **N. E. Selin** and V. J. Karplus. 2020. “Improving evaluation of energy policies with multiple goals: Comparing *ex ante* and *ex post* approaches.” *Environmental Science & Technology* 54(24):15584-15593.
91. *K. M. Mulvaney, **N. E. Selin**, A. Giang, M. Muntean, C-T. Li, D. Zhang, H. Angot, C. P. Thackray, and V. J. Karplus. 2020. “Mercury benefits of climate policy in China: Addressing the Paris Agreement and the Minamata Convention Simultaneously.” *Environmental Science & Technology* 54(3):1326-1335.
90. *C. P. Thackray, **N. E. Selin**, and C. J. Young. 2020. “Global atmospheric chemistry model for the fate and transport of PFCA and their precursors.” *Environmental Science: Processes and Impacts*, 22, 285-293.

89. T. R. Khan, D. Obrist, Y. Agnan, **N. E. Selin**, J. A. Perlanger. 2019. "Atmosphere-terrestrial exchange of gaseous elemental mercury: Parameterization improvement through direct comparison with measured ecosystem fluxes." *Environmental Science: Processes and Impacts*, 21, 1699-1712.
88. G. G. Singh, V. F. Farjalla, B. Chen, A. E. Pelling, E. Ceyhan, M. Dominik, E. Alisic, J. Kerr, **N. E. Selin**, G. Bassioni, E. Bennett, A. H. Kemp, K. M. A. Chan. 2019. "Researcher engagement in policy deemed societally beneficial yet unrewarded." *Frontiers in Ecology and the Environment*, 17(7):375-382.
87. *E. Dimanchev, S. Paltsev, M. Yuan, *D. Rothenberg, C. Tessum, J. Marshall, and **N. E. Selin**. 2019. "Health co-benefits of sub-national renewable energy policy in the U.S." *Environmental Research Letters*, 14, 085012.
86. *M. Li, D. Zhang, C.-T. Li, **N. E. Selin**, and V. J. Karplus. 2019. "Co-benefits of China's climate policy for air quality and human health in China and transboundary regions in 2030." *Environmental Research Letters*, 14, 084006.
85. C. Wagner, H. Amos, C. Thackray, Y. Zhang, E. Lundgren, G. Forget, C. Friedman, **N. E. Selin**, R. Lohmann, and E. Sunderland. 2019. "A global 3-D ocean model for polychlorinated biphenyls: Benchmark compounds for understanding the impacts of global change on neutral persistent organic pollutants." *Global Biogeochemical Cycles*, 33, GB006018.
84. *S. Song, *H. Angot, **N. E. Selin**, H. Gallée, F. Sprovieri, N. Pirrone, D. Helmig, J. Savarino, O. Magand, and A. Dommergue. 2018. "Understanding mercury oxidation and air-snow exchange on the East Antarctic Plateau: A modeling study." *Atmospheric Chemistry and Physics*, 18:15825-15840.
83. *H. Angot, *N. Hoffman, *A. Giang, C. P. Thackray, A. N. Hendricks, N. R. Urban and **N. E. Selin**. 2018. "Global and Local Impacts of Delayed Mercury Mitigation Efforts." *Environmental Science & Technology*, 52(22):12968-12977.
82. *A. Giang, *S. Song, M. Muntean, G. Janssens-Maenhout, *A. Harvey, *E. Berg, and **N. E. Selin**. 2018. "Understanding factors influencing the detection of mercury policies in modelled Laurentian Great Lakes wet deposition." *Environmental Science: Processes & Impacts*, 20:1373-1389.
81. *B. Brown-Steiner, **N. E. Selin**, R. Prinn, S. Tilmes, L. Emmons, J.-F. Lamarque, and P. Cameron-Smith. 2018. "Evaluating Simplified Chemical Mechanisms within CESM Version 1.2 CAM-chem (CAM4): MOZART-4 vs. Reduced Hydrocarbon vs. Super-Fast Chemistry," *Geosci. Model Dev.* 11:4155-4174.
80. A. J. Jefferson, M. A. Kenney, T. M. Hill and **N. E. Selin**. 2018. "Universities Can Lead the Way Supporting Engaged Geoscientists." *Eos*, 99, doi:10.1029/2018EO111567.
79. C. Chen, C. Driscoll, C. Eagles-Smith, C. Eckley, D. Gay, H. Hsu-Kim, S. Keane, J. Kirk, R. Mason, D. Obrist, H. Selin, **N. E. Selin**, M. Thompson. 2018. "A Critical Time for Mercury Science to Inform Global Policy." *Environmental Science and Technology*, 52:9556-9561.
78. *B. Brown-Steiner, **N. E. Selin**, R. G. Prinn, E. Monier, S. Tilmes, L. Emmons, F. Garcia-Menendez. 2018. "Maximizing Ozone Signals Among Chemical, Meteorological, and Climatological Variability." *Atmospheric Chemistry and Physics*, 18:8373-8388.
77. **N. E. Selin**. 2018. "A proposed global metric to aid mercury pollution policy." *Science* 360(6389):607-609.
76. *M. Li, D. Zhang, C. T. Li, *K. M. Mulvaney, **N. E. Selin**, and V. J. Karplus. 2018. "Air Quality Co-Benefits of Carbon Pricing in China." *Nature Climate Change*, 8:398-403.
75. M. Muntean, G. Janssens-Maenhout, *S. Song, *A. Giang, **N. E. Selin**, H. Zhong, Y. Zhao, J. G. J. Olivier, D. Guizzardi, M. Crippa, E. Schaaf, F. Dentener. 2018. "Evaluating EDGARv4.tox2 speciated mercury emissions ex-post scenarios and their impacts on modelled global and regional wet deposition patterns." *Atmospheric Environment*, 184:56-68.
74. *S. Y. Kwon, **N. E. Selin**, *A. Giang, V. J. Karplus, D. Zhang. 2018. "Present and Future Mercury Concentrations in Chinese Rice: Insights from Modeling." *Global Biogeochemical Cycles*, 32(3):437-462.
73. J. A. Perlinger, N. R. Urban, *A. Giang, **N. E. Selin**, A. N. Hendricks, H. Zhang, A. Kumar, S. Wu, V. S. Gagnon, H. S. Gorman, and E. S. Norman. 2018. "Responses of Deposition and Bioaccumulation in the Great Lakes Region to Policy and Other Large-Scale Drivers of Mercury Emission." *Environmental Science: Processes & Impacts*, 20:195-209.

72. D. Obrist, J. Kirk, L. Zhang, E. Sunderland, M. Jiskra, and **N. E. Selin**. 2018. "A review of global environmental mercury processes in response to human and natural perturbations: changes in emissions, climate, and land use." *Ambio*, 47(2):116-140.
71. H. Selin, S. E. Keane, S. Wang, **N.E. Selin**, K. Davis, and D. Bally. 2018. "Linking Science and Policy to Support the Implementation of the Minamata Convention on Mercury." *Ambio*, 47(2):198-215.
70. A. M. Carlton, J. de Gouw, J.L. Jimenez, J. L. Ambrose, A. Attwood, S. Brown, K. R. Baker, C. A. Brock, R.C. Cohen, S. Edgerton, C. Farkas, D. Farmer, A. H. Goldstein, L. Gratz, A. Guenther, S. Hunt, L. Jaeglé, D. A. Jaffe, J. Mak, C. McClure, A. Nenes, T. K.V. Nguyen, J. R. Pierce, S. S. de Sa, **N.E. Selin**, V. Shah, S. Shaw, P. B. Shepson, *S. Song, J. Stutz, J. Surratt, B. J. Turpin, C. Warneke, R. A. Washenfelder, P. O. Wennberg, X. Zhou. 2018. "Synthesis of the Southeast Atmosphere Studies: Investigating fundamental atmospheric chemistry questions." *Bulletin of the American Meteorological Society (BAMS)*, 99(3):547-567.
69. *E. Czaika and **N. E. Selin**. 2017. "Model Use in Sustainability Policy Making: An experimental study." *Environmental Modelling and Software*, 98:54-62.
68. *J. Holt, S. Solomon, and **N.E. Selin**. 2017. "Sensitivity of inorganic aerosol radiative effects to U.S. emissions." *Journal of Geophysical Research: Atmospheres*, 122(12):6379-6390.
67. J. Bieser, F. Slemr, J. Ambrose, C. Brenninkmeijer, S. Brooks, A. Dastoor, F. DeSimone, R. Ebinghaus, C. Gencarelli, B. Geyer, L. E. Gratz, I. M. Hedgecock, D. Jaffe, P. Kelley, C.-J. Lin, V. Matthias, A. Ryjkov, **N.E. Selin**, *S. Song, O. Travnikov, A. Weigelt, W. Luke, X. Ren, A. Zahn, X. Yang, Y. Zhu, and N. Pirrone. 2017. "Multi-model study of mercury dispersion in the atmosphere: Vertical distribution of mercury species." *Atmospheric Chemistry and Physics*, 17:6925–6955.
66. O. Travnikov, H. Angot, P. Artaxo, M. Bencardino, J. Bieser, F. D'Amore, A. Dastoor, F. De Simone, M. del Carmen Diéguez, A. Dommergue, R. Ebinghaus, X. Feng, C.N. Gencarelli, I.M. Hedgecock, O. Magand, L. Martin, V. Matthias, N. Mashyanov, N. Pirrone, R. Ramachandran, K.A. Read, A. Ryjkov, **N. E. Selin**, F. Sena, *S. Song, F. Sprovieri, D. Wip, I. Wängberg, and X. Yang. 2017. "Multi-model study of mercury dispersion in the atmosphere: Atmospheric processes and model evaluation." *Atmospheric Chemistry and Physics*, 17:5271-5295.
65. *F. Garcia-Menendez, E. Monier, and **N. E. Selin**. 2017. "The role of natural variability in projections of climate change impacts on U.S. ozone pollution." *Geophysical Research Letters*, 44(6):2911-21.
64. *C. P. Thackray and **N. E. Selin**. 2017. "Uncertainty and variability in atmospheric formation of PFCAs from fluorotelomer precursors." *Atmospheric Chemistry and Physics*, 17:4585-4597.
63. **N. E. Selin**, *L. C. Stokes, and L. Susskind. 2017. "The need to build policy literacy into climate science education." *WIREs Climate Change* 8(3), e455.
62. *R. K. Saari, *T. M. Thompson, and **N. E. Selin**. 2017. "Human Health and Economic Impacts of Ozone Reductions by Income Group." *Environmental Science and Technology*, 51(4):1953-1961.
61. *R. D. Collins, **N. E. Selin**, O. L. de Weck, and W. C. Clark. 2017. "Using Inclusive Wealth for Policy Evaluation: Application to Electricity Infrastructure Planning in Oil-Exporting Countries." *Ecological Economics* 133:23-34.
60. L. E. Gratz, J. L. Ambrose, D. A. Jaffe, C. Knote, L. Jaeglé, **N. E. Selin**, T. Campos, F. M. Flocke, M. Reeves, D. Stechman, M. Stell, A. J. Weilheimer, D. J. Knapp, D. D. Montzka, G. S. Tyndall, R. L. Mauldin III, C. A. Cantrell, E. C. Apel, R. S. Hornbrook, N. J. Blake. 2016. "Airborne Observations of Mercury Emissions from the Chicago/Gary Urban/Industrial Area during the 2013 NOMADSS Campaign." *Atmospheric Environment*, 145:415-423.
59. H. Angot, A. Dastoor, F. De Simone, K. Gårdfeldt, C. N. Gencarelli, I. M. Hedgecock, S. Langer, O. Magand, M. N. Mastromonaco, C. Nordstrøm, K. A. Pfaffhuber, N. Pirrone, A. Ryjkov, **N. E. Selin**, H. Skov, *S. Song, F. Sprovieri, A. Steffen, K. Toyota, O. Travnikov, X. Yang, and A. Dommergue. 2016. "Chemical cycling and deposition of atmospheric mercury in Polar Regions: review of recent measurements and comparison with models." *Atmospheric Chemistry and Physics*, 16:10735-10763.
58. *P. J. Wolfe, *A. Giang, A. Ashok, **N. E. Selin** and S. R. H. Barrett. 2016. "Costs of IQ Loss from Leaded Aviation Gasoline Emissions." *Environmental Science and Technology* 50(17):9026-9033.
57. **N. E. Selin**. 2016. "Teaching and Learning from Environmental Summits: COP-21 and Beyond." *Global Environmental Politics*, 16(3):31-40.

56. *T. M. Thompson, S. Rausch, *R.K. Saari, and **N.E. Selin**. 2016. "Air Quality Co-Benefits of Sub-National Carbon Policies." *Journal of the Air and Waste Management Association*, 66(10):988-1002.
55. *E. Czaika and **N.E. Selin**. 2016. "Taking Action to Reduce Waste: Quantifying Impacts of Model Use in a Multi-organizational Sustainability Negotiation." *Negotiation and Conflict Management Research*, 9:237–255.
54. *S. Y. Kwon and **N.E. Selin**. 2016. "Uncertainties in Atmospheric Mercury Modeling for Policy Evaluation." *Current Pollution Reports* 2(2):103-114.
53. *S. Song, **N.E. Selin**, L. E. Gratz, J. L. Ambrose, D. A. Jaffe, V. Shah, L. Jaeglé, A. Giang, B. Yuan, L. Kaser, E. C. Apel, R. S. Hornbrook, N. J. Blake, A. J. Weinheimer, R. L. Mauldin III, C. A. Cantrell, M. S. Castro, G. Conley, T. M. Holsen, W. T. Luke, R. Talbot. 2016. "Constraints from Observations and Modeling on Atmosphere-Surface Exchange of Mercury in Eastern North America." *Elementa: Science of the Anthropocene*. 4: 000100.
52. *C. L. Friedman and **N.E. Selin**. 2016. "PCBs in the Arctic atmosphere: determining important driving forces using a global atmospheric transport model." *Atmospheric Chemistry and Physics*, 16:3433-3448.
51. *L. Stokes, *A. Giang and **N.E. Selin**. 2016. "Splitting the South: China and India's Divergence in International Environmental Negotiations," *Global Environmental Politics* 16(4):12-31.
50. V. Shah, L. Jaeglé, L. E. Gratz, J. L. Ambrose, D.A. Jaffe, **N.E. Selin**, *S. Song, T. L. Campos, F. M. Flocke, M. Reeves, D. Stechman, M. Stell, J. Festa, J. Stutz, A. J. Weinheimer, D. J. Knapp, D. D. Montzka, G. S. Tyndall, E. C. Apel, R. S. Hornbrook, A. J. Hills, D. D. Riemer, N.J. Blake, C. A. Cantrell, and R. L. Mauldin III. 2016. "Origin of oxidized mercury in the summertime free troposphere over the southeastern U.S." *Atmospheric Chemistry and Physics*, 16:1511-1530.
49. *A. Giang and **N. E. Selin**. 2016. "Benefits of Mercury Controls for the United States." *Proceedings of the National Academy of Sciences (PNAS)*, 113(2): 286-91.
48. *L. C. Stokes and **N. E. Selin**. 2016. "The Mercury Game: Evaluating a Negotiation Simulation that Teaches Students about Science-Policy Interactions." *Journal of Environmental Studies and Sciences*, 6:597.
47. L.E. Gratz, J.L. Ambrose, D.A. Jaffe, V. Shah, L. Jaeglé, J.Stutz, J. Festa, M. Spolaor, C. Tsai, **N.E. Selin**, *S. Song, X. Zhou, A.J. Weinheimer, D.J. Knapp, D.D. Montzka, F.M. Flocke, T.L. Campos, E. Apel, R. Hornbrook, N.J. Blake, S. Hall, G.S. Tyndall, M. Reeves, D. Stechman, M. Stell. 2015. "Oxidation of mercury by bromine in the subtropical Pacific free troposphere." *Geophysical Research Letters*, 42(23):10,494-10,502.
46. *C. P. Thackray, *C. L. Friedman, Y. Zhang and **N. E. Selin**. 2015. "Quantitative assessment of parametric uncertainty in Northern hemisphere PAH concentrations." *Environmental Science and Technology*, 49(15):9185-9193.
45. *S. Song, **N. E. Selin**, A. L. Soerensen, H. Angot, R. Artz, S. Brooks, E.-G. Brunke, G. Conley, A. Dommergue, R. Ebinghaus, T. M. Holsen, D. A. Jaffe, S. Kang, P. Kelley, W. T. Luke, O. Magand, K. Marumoto, K. A. Pfaffhuber, X. Ren, G.-R. Sheu, F. Slemr, T. Warneke, A. Weigelt, P. Weiss-Penzias, D. C. Wip and Q. Zhang. 2015. "Top-down constraints on atmospheric mercury emissions and implications for global biogeochemical cycling." *Atmospheric Chemistry and Physics* 15:7103-7125.
44. *F. Garcia-Menendez, *R. K. Saari, E. Monier, and **N. E. Selin**. 2015. "U.S. air quality and health benefits from avoided climate change under greenhouse gas mitigation." *Environmental Science and Technology*, 49:7580–7588.
43. *A. Giang, *L. C. Stokes, D. G. Streets, E. S. Corbitt, and **N. E. Selin**. 2015. "Impacts of the Minamata Convention on mercury emissions and global deposition from coal-fired power generation in Asia." *Environmental Science and Technology* 49, 5326-5335.
42. *J. Holt, **N. E. Selin**, and S. Solomon. 2015. "Changes in inorganic fine particulate matter sensitivities to precursors due to large-scale US emissions reductions." *Environmental Science and Technology* 49(8):4384-4841.
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