

# Kristina M. Wagstrom Publications and Presentations

## PEER-REVIEWED PUBLICATIONS

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Roy, Anirban A., Wagstrom, Kristina M., Adams, Peter A., Pandis, Spyros N., Robinson, Allen L. Quantification of the Effects of Molecular Marker Oxidation on Source Apportionment Estimates for Motor Vehicles. (2011) *Atmospheric Environment*. 45 (18), 3132-3140.

Wagstrom, Kristina M., Pandis, Spyros N. Contributions of Long Range Transport to Local Fine Particulate Matter Problems. (2011) *Atmospheric Environment*. 45 (16), 2730-2735.

Wagstrom, Kristina M., Pandis, Spyros N. Source-Receptor Relationships for Fine Particulate Matter in the Eastern United States. (2011) *Atmospheric Environment*. 45 (2). 347-356.

Wagstrom, Kristina M., Pandis, Spyros N. Determination of the Age Distribution of Aerosol Species Using a Chemical Transport Model. (2009) *Journal of Geophysical Research - Atmospheres*. 114.

Wagstrom, Kristina M., Pandis, Spyros N., Yarwood, Greg, Wilson, Gary M., Morris, Ralph E. Development and Application of a Computationally Efficient Apportionment Algorithm in a Three Dimensional Chemical Transport Model. (2008) *Atmospheric Environment*. 42 (22). 5650-5659.

## NONPEER-REVIEWED PUBLICATIONS

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Wagstrom, Kristina M., Hill, Jason D. Air Pollution Impacts of Biofuels. In *Socioeconomic and Environmental Impacts of Biofuels: Evidence from Developing Nations* (Chapter 3). Eds: Gasparatos, A., Stromberg, P. *In press*.

Wagstrom, Kristina M., Pandis, Spyros N. Impacts of Large Source Regions on Particulate Matter Concentrations in the Eastern United States. *Air and Waste Management Association's 101<sup>st</sup> Annual Conference - Student Poster/Paper Competition*. June 24-27, 2008. Portland, OR.

## PRESENTATIONS

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### **Oral Presentations**

\*Wagstrom, Kristina M., Tessum, Christopher, Hill, Jason, Marshall, Julian. Air Quality Impacts of Achieving U.S. Renewable Fuel Mandates. *2011 American Institute of Chemical Engineers Annual Meeting*. October 16-21, 2011. Minneapolis, MN.

Murphy, Benjamin N., Wagstrom, Kristina M., Pandis, Spyros N. Exploring Atmospheric Organic Aerosol Source Apportionment in the United States for an Entire Simulation Year. *2011 American Institute of Chemical Engineers Annual Meeting*. October 16-21, 2011. Minneapolis, MN.

\*Wagstrom, Kristina M., Tessum, Christopher, Hill, Jason, Marshall, Julian. Air Quality Impacts of Achieving U.S. Renewable Fuel Mandates. *American Association for Aerosol Research's 30<sup>th</sup> Annual Conference*. October 3-7, 2011. Orlando, FL.

Tessum, Christopher, Wagstrom, Kristina M., Hill, Jason, Marshall, Julian. Air Quality Implications of Alternative Fuels: A spatially, temporally explicit lifecycle modeling approach. *23<sup>rd</sup> Conference of the International Society for Environmental Epidemiology*. September 13-16, 2011. Barcelona, Spain.

\*Wagstrom, Kristina M., Tessum, Christopher, Hill, Jason, Marshall, Julian. Air Pollution Impacts of Conventional and Alternative Fuels. *American Association for Aerosol Research's 29<sup>th</sup> Annual Conference*. October 25-29, 2010. Portland, OR.

Roy, Anirban, Wagstrom, Kristina M., Pandis, Spyros N., Adams, Peter, Robinson, Allen L. Investigating the Effects of Heterogeneous Oxidation on Organic Molecular Markers Concentrations. *American Association for Aerosol Research's 29<sup>th</sup> Annual Conference*. October 25-29, 2010. Portland, OR.

\*Wagstrom, Kristina M., Pandis, Spyros N. Contribution of Long Range Transport to Local Fine Particulate Matter Problems. *American Association for Aerosol Research's 28<sup>th</sup> Annual Conference*. October 26-30, 2009. Minneapolis, MN.

\*Wagstrom, Kristina M., Pandis, Spyros N. Evaluation of Long-Range Transport of Atmospheric Particulate Matter Using a Regional Chemical Transport Model. *2008 American Institute of Chemical Engineers Annual Meeting*. November 16-21, 2008. Philadelphia, PA.

\*Wagstrom, Kristina M., Pandis, Spyros N. Determination of Atmospheric Aerosol Age Using a Three-Dimensional Eulerian Model. *American Association for Aerosol Research's 27<sup>th</sup> Annual Conference*. October 20-24, 2008. Orlando, FL.

\*Wagstrom, Kristina M., Pandis, Spyros N. Determination of Atmospheric Aerosol Age Using a Three-Dimensional Eulerian Model. *European Aerosol Conference 2008*. August 24-29, 2008. Thessaloniki, Greece.

\*Wagstrom, Kristina M., Pandis, Spyros N. Application of an Apportionment Algorithm to Studying Source Influences in the Eastern United States. *Air and Waste Management Association's 100<sup>th</sup> Annual Conference*. June 26-28, 2007. Pittsburgh, PA.

\*Wagstrom, Kristina M., Pandis, Spyros N., Yarwood, Greg, Wilson, Gary M., Morris, Ralph E. Development and Application of a Computationally Efficient Apportionment Algorithm in a Three Dimensional Chemical Transport Model. *2006 International Aerosol Conference*. September 10-15, 2006. St. Paul, MN.

### **Poster Presentations**

Wagstrom, Kristina, Tessum, Chris, Hill, Jason, Marshall, Julian. Air Pollution Impacts of Conventional and Alternative Transportation Fuels. *AAAS Annual Meeting*. February 16-20, 2012. Vancouver, Canada.

Tessum, Christopher, Wagstrom, Kristina M., Hill, Jason, Marshall, Julian. Air Quality and Public Health Impacts of Biofuel Production and Use in the United States. *Student Sustainability Symposium*. October 26, 2011. St. Paul, MN.

\*Wagstrom, Kristina M. Improving Our Understanding of Atmospheric Particulate Matter Concentrations and Feedbacks (Meet the Faculty Candidates Poster Session). *2011 American Institute of Chemical Engineering Annual Meeting*. October 16-21, 2011. Minneapolis, MN.

Murphy, Benjamin N., Wagstrom, Kristina M., Pandis, Spyros N. Organic Aerosol Source Apportionment in the United States. *American Association for Aerosol Research's 30<sup>th</sup> Annual Conference*. October 3-7, 2011. Orlando, FL.

Tessum, Christopher, Wagstrom, Kristina M., Hill, Jason, Marshall, Julian. Air Quality Implications of Alternative Fuels: A Spatially, Temporally Explicit Lifecycle Modeling Approach. *American Center for Life Cycle Analysis*. October 4-6, 2011. Chicago, IL.

\*Wagstrom, Kristina, Tessum, Chris, Hill, Jason, Marshall, Julian. Air Pollution Impacts of Conventional and Alternative Fuels. *22<sup>nd</sup> Annual Transportation Research Conference*. May 24-25, 2011. St. Paul, MN.

Tessum, Chris, Wagstrom, Kristina, Hill, Jason, Marshall, Julian. Air Quality Implications of Alternative Fuels: A Spatially, Temporally Explicit Lifecycle Modeling Approach. *Minnesota Supercomputing Institute Research Exhibition*. April 25, 2011. Minneapolis, MN.

Tessum, Chris, Wagstrom, Kristina, Hill, Jason, Marshall, Julian. Air Quality Implications of Alternative Fuels: A Spatially, Temporally Explicit Lifecycle Modeling Approach. *E3 2010*. November 30, 2010. St. Paul, MN.

\*Wagstrom, Kristina, Tessum, Chris, Hill, Jason, Marshall, Julian. Air Pollution Impacts of Conventional and Alternative Fuels. *Minnesota Supercomputing Institute's 25<sup>th</sup> Anniversary Research Exhibition*. April 30, 2010. Minneapolis, MN.

\*Wagstrom, Kristina, Tessum, Chris, Hill, Jason, Marshall, Julian. Air Pollution Impacts of Conventional and Alternative Fuels. *E3 2009*. November 17, 2009. St. Paul, MN.

Roy, Anirban, Wagstrom, Kristina M., Weitkamp, Emily A., Hennigan, Chris, Pandis, Spyros N., Robinson, Allen L. Chemical Transport Model Simulations of the Effects of Heterogeneous Oxidation on Motor Vehicle Molecular Markers Concentrations in the Eastern United States. *American Association for Aerosol Research's 28<sup>th</sup> Annual Conference*. October 26-30, 2009. Minneapolis, MN.

\*Wagstrom, Kristina M., Pandis, Spyros N. Impact of Large Source Regions on Particulate Matter Concentrations in the Eastern United States. *Air and Waste Management Association's 101<sup>st</sup> Annual Conference - Student Poster/Paper Competition*. June 24-27, 2008. Portland, OR.

\*Wagstrom, Kristina M., Pandis, Spyros N., Yarwood, Greg, Wilson, Gary M., Morris, Ralph E. Particulate Matter Source Apportionment Technology (PSAT). *2008 EPA Science Forum*. May 20-22, 2008. Washington, D.C.

\*Wagstrom, Kristina M., Pandis, Spyros N. Understanding Source Impacts on Particulate Matter Concentrations in the Eastern United States. *American Association for Aerosol Research's 26<sup>th</sup> Annual Conference*. September 24-28, 2007. Reno, NV.

\*Wagstrom, Kristina M., Teymour, Fouad. Monte Carlo Simulation of Fragment Length Distributions Resulting From Branched Polymer Degradation. *2004 AIChE Chicago Chapter Poster Session*. April 2004. Chicago, IL.

### ***Invited Presentations and Seminars***

\*Wagstrom, Kristina M. How Might the Renewable Fuel Standard Impact Air Pollution? *Minnesota State University – Mankato, Department of Geography*. December 2, 2011. Mankato, MN.

\*Wagstrom, Kristina M. Air Pollution Modeling Basics *Minnesota State University – Mankato, Minnesota Simulation and Modeling Center*. December 2, 2011. Mankato, MN.

\*Wagstrom, Kristina M. How Might Biofuels Impact Air Quality? *Minnesota State University – Mankato, Department of Biological Sciences*. March 18, 2011. Mankato, MN.

### ***Outreach Presentations***

\*Wagstrom, Kristina M. Using Air Quality Models to Identify Sources of Air Pollution. *Carnegie Mellon University Society of Women Engineers' Introduce a Girl to Engineering Day*. February 2009. Pittsburgh, PA.

\*Hildebrandt, Lea, Engelhart, Gabriella, Wagstrom, Kristina M. (co-presented) Introduction to Air Quality Research. *Carnegie Mellon University American Association for Aerosol Research Student Chapter*. November 2008. Pittsburgh, PA.

\*Denotes presentations specifically given by Kristina.