

Christopher D. Geron, Environmental Scientist in EPA's National Risk Management Research Laboratory

Air and Energy Management Division

[Mailing Address](#)

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Areas of Expertise: Landscape ecology, ecosystem dynamics and function, and trace gas exchange. Relating environmental variables to regional land cover and soil characteristics, net primary productivity, trace gas exchange, and site characteristics. Economic potential of managing natural systems for sustained use of natural resources. Experience and programming capability in statistical quality control, experimental quality assurance, and linear/nonlinear regression analysis and simulation modeling. Over 25 years of SAS programming experience on various computer platforms, and typically perform analyses on very large databases, which require in depth knowledge of basic SAS, graphics, statistics, ETS, and report writing software.

Select Publications:

Chen, X., Johnt Walker, and Chris Geron. 2017. [Chromatography related performance of the Monitor for Aerosols and Gases in Ambient Air \(MARGA\): laboratory and field based evaluation](#). Atmospheric Measurement Techniques. Copernicus Publications, Katlenburg-Lindau, Germany, 10:3893-3908.

Geron, Christopher D., Daly, Ryan W., Arnts, Robert R., Guenther, Alex B., Mowry, Fred L. 2016. [Canopy level emissions of 2-methyl-3-buten-2-ol, monoterpenes, and sesquiterpenes from an experimental *Pinus taeda* plantation](#). Science of The Total Environment, 565: 730-741, <http://dx.doi.org/10.1016/j.scitotenv.2016.05.034>

Geron, C., Daly, R., Harley, P., Rasmussen, R., Roger Seco, R., Guenther, A., Karl, T., Gu, L. 2016. [Large drought-induced variations in oak leaf volatile organic compound emissions during PINOT NOIR 2012](#), Chemosphere 146:8-21.

Black, R., B. Gullett, I. George, J. Aurell, A. Holder, M. Hays, Chris Geron, and D. Tabor. 2016. [Characterization of Gas and Particle Emissions from Laboratory Burns of Peat](#). Atmospheric Environment. Elsevier Science Ltd, New York, NY, 132:49-57.

Geron, C. and Hays, M. 2013. [Air Emissions from Organic Soil Burning on the Coastal Plain of North Carolina](#). Atmospheric Environment 64:192-199.

Geron, C.D. 2011. [Carbonaceous aerosol over a *Pinus taeda* plantation: Results from the CELTIC Experiment](#). Atmospheric Environment 45:794-801.

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Education:

- M.S., North Carolina State University, Raleigh, NC; Quantitative Forestry, 1986
- B.S., Ohio State University, Columbus, OH; Forest Resource Management, 1984

Professional Experience:

- Research and manage projects to estimate forest and agricultural ecosystem fluxes of radiatively important trace gases, reactive organic compounds, particulate matter, and oxides of nitrogen.
- Editor of the peer-reviewed Hindawi Journal of Ecology, in the International Scholarly Research Network journal series
- Chair of International Gordon Research Conference “Biogenic Hydrocarbons & The Atmosphere” in February 2007, Ventura, California.
- Vice-chair of International Gordon Research Conference “Biogenic Hydrocarbons & The Atmosphere” in 2004 in Barga, Italy.

Awards and Honors

- 2013 Superior Accomplishment Award – Fire and Biogenic Emissions Sources
- 2011 EPA Scientific and Technological Achievement Award, Level II
- 2011 EPA Scientific and Technological Achievement Award, Level III
- 2010 EPA Scientific and Technological Achievement Award, Level III
- 2010 Superior Accomplishment Award - Natural Emissions Sources
- 2009 Superior Accomplishment Award - Natural Emissions Sources
- 2008 Superior Individual Performance Award – Natural PM Sources
- 2008 Superior Performance Award - Natural Emissions Sources Team
- 2007 EPA Scientific and Technological Achievement Award, Level II
- 2007 EPA Scientific and Technological Achievement Award, Level III
- 2006 Individual Superior Performance Award - Research on Natural Particulate Matter
- 2006 Superior Performance Award - Natural Emissions Sources Team
- 2006 Superior Performance Award - Particulate Matter Team
- 2005 Individual Performance Award - CELTIC study
- 2005 Superior Performance Award - Particulate Matter Team
- 2005 Superior performance Award - Natural Emission Sources Team (NEST)