

James J. Jetter, Environmental Engineer in EPA's National Risk Management Research Laboratory

Air and Energy Management Division

[Mailing Address](#)

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Areas of Expertise:

- Air pollutant emissions source characterization
- Household air pollution
- Household energy technologies
- Aerosol science and technology
- International standards development

Select Publications:

Xie M, Shen G, Holder AL, Hays MD, **Jetter JJ**. Light absorption of organic carbon emitted from burning wood, charcoal, and kerosene in household cookstoves. *Environmental Pollution*. Vol. 240, Pp. 60-67. 2018.

Shen G, Hays MS, Smith KR, Williams C, Faircloth JW, **Jetter JJ**. [Evaluating the Performance of Household Liquefied Petroleum Gas Cookstoves](#). *Environmental Science & Technology*. Vol. 52, Pp. 904–915, 2018.

Gibbs-Flournoy EA, Gilmour MI, Higuchi M, **Jetter J**, George I, Copeland L, Harrison R, Moser VC, Dye JA. [Differential exposure and acute health impacts of inhaled solid-fuel emissions from rudimentary and advanced cookstoves in female CD-1 mice](#). *Environmental Research* 161. DOI: <http://dx.doi.org/10.1016/j.envres.2017.10.043>. Pp. 35-48. 2018.

Shen G, Gaddam C, Ebersviller S, Vander Wal R, Williams C, Faircloth J, **Jetter J**, Hays M. Emission factors, number size distributions and morphology of ultrafine particles in cookstove smoke: A laboratory comparison of different household stove-fuel systems. *Environmental Science & Technology*. Vol. 51, Pp. 6522–6532. 2017.

Shen G, Preston W, Ebersviller SM, Williams C, Faircloth JW, **Jetter JJ**, Hays MD. [Polycyclic aromatic hydrocarbons in fine particulate matter emitted from burning kerosene, liquid petroleum gas, and wood fuels in household cookstoves](#). *Energy & Fuels*. DOI: 10.1021/acs.energyfuels.6b02641. 2017.

Mutlu E, Warren SH, Ebersviller SM, Kooter IM, Schmid JE, Dye JA, Linak WP, Gilmour MI, **Jetter JJ**, Higuchi M, DeMarini DM. Mutagenicity- and pollutant-emission factors of solid-fuel cookstoves: comparison to other combustion sources. *Environmental Health Perspectives*. DOI:10.1289/ehp.1509852. 2016.

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Education:

- M.S., University of North Carolina at Chapel Hill; Environmental Engineering, 2002
- B.S., North Carolina State University, Raleigh, NC; Mechanical Engineering, 1990

Professional Experience:Workgroup/Project Leads

- Lead for ORD research effort on household energy research/clean cookstoves
- Developed leading internationally-recognized research team and laboratory testing facilities.
- International Standards Leadership (2010-present) with Global Alliance for Clean Cookstoves and other international partners for international standards for household energy technologies
- Lead for ISO Technical Committee 285 Working Group 2, Harmonized Laboratory Testing for Cookstoves, as Project Leader (2015 – Present)
- Initiated and hosted the first Intensive Workshop on Cookstove Testing, co-sponsored by the Global Alliance for Clean Cookstoves (2013)

Committees and Board Memberships

- ISO (International Organization for Standardization) TC (Technical Committee) 285, Clean Cooking Solutions, Working Group Leader and Expert, 2014 to present
- ANSI (American National Standards Institute) Technical Advisory Group to ISO TC 285, Member, 2014 to present
- Air & Waste Management Association, Indoor Air Quality (AB-7) Committee Chair 2009-2012

Awards and Honors

- ANSI Meritorious Service Award for outstanding service and significant contributions to voluntary standardization, 2018
- ISO Excellence Award for leading the successful development of ISO Standard 19867-1, Laboratory Testing of Cookstoves, 2017
- U.S. EPA STAA (Scientific and Technological Achievement Award), Honorable Mention, 2014
- Environmental Science & Technology (journal) Award for Best Feature Article of 2013.
- U.S. EPA National Risk Management Research Laboratory, Goal 2 Award for marketing cookstove research program, 2011
- U.S. EPA Silver Medal for exceptional technical assistance in support of the EPA Office of Air and Radiation and the Partnership for Clean Indoor Air, 2007
- Delta Omega Honorary Public Health Society, 2003
- Bunker Award for Outstanding Scholarship and Professional Promise, University of North Carolina, Department of Environmental Sciences and Engineering, 2002

[Science Matters – Cleaning up in the Kitchen: Cleaner Cookstoves](#)

[Science Matters – Better Burning, Better Breathing: Cleaner Stoves](#)

[EPA Science Bite Podcast: Clean Cookstoves Research](#)

[EPA Blog: EPA Helps Lead the Way in Cleaning Up Stoves](#)