Brian K. Gullett, Environmental Engineer in EPA's National Risk Management Research Laboratory

Air and Energy Management Division
Mailing Address

gullett.brian@epa.gov

Areas of Expertise:

- Gas/solid reactions
- Formation of halogenated dioxins/furans
- Open area combustion emission sampling
- Aerial- and ground-based emission sampling

Select Publications:

Aurell, J.; Mitchell, W.; Chirayath, V.; Jonsson, J.; Tabor, D.; **Gullett, B.** Field Determination of Multipollutant, Open Area Combustion Source Emission Factors with a Hexacopter Unmanned Aerial Vehicle, Atmospheric Environment 166, 433-440, 2017.

Walsh, M., **B. Gullett**, M. Walsh, M. Bigl, AND J. Aurell. Improving post-detonation energetics residues estimations for the Life Cycle Environmental Assessment process for munitions. Chemosphere. Elsevier Science Ltd, New York, NY, 194:622-627, 2018.

Walsh, M.; **Gullett, B.**; Walsh, M.E.; Bigl, M.F.; Aurell, J. Considering Post-Detonation Energetics Residues in the Life Cycle Environmental Assessment Process for Munitions, Chemosphere 194, 622-627, 2018. https://doi.org/10.1016/j.chemosphere.2017.11.072

Dominguez, T.; Aurell, J.; **Gullett, B.**; Eninger, R.; Yamamoto, D., Characterizing Emissions from Open Burning of Military Food Waste and Ration Packaging Compositions. J. Materials Cycles and Waste Management, 20(2), 902-913, DOI 10.1007/s10163-017-0652-y, 2018.

Aurell, J.; **Gullett, B.**; Tabor, D.; Holder, A.; Hubble, D., Characterization of Emissions from Liquid Fuel and Propane Burns. Fire Technology 53, 2023-2038, 2017.

Holder, A., **B. Gullett**, S. Urbanski, R. Elleman, S. O'Neil, D. Tabor, Bill Mitchell, and K. Baker. Emissions from Prescribed Burning of Agricultural Fields in the Pacific Northwest. Atmospheric Environment. Elsevier Science Ltd, New York, NY, 166:22-33, 2017.

View more research publications by Brian Gullett

Education:

- M.S., Duke University, Durham, NC; Engineering Management, 2001
- Ph.D., Duke University, Durham, NC; Environmental Engineering, 1984
- M.S., Duke University, Durham, NC; Environmental Engineering, 1981
- A.B., Duke University, Durham, NC; Environmental Science and Policy, 1979

Professional Experience:

Committees/Workgroup/Project Leads

- Acting Division Director, AEMD, 2017-2018
- External Advisory Committee, LSU Superfund Basic Research Program "Health Impact of Toxic Combustion By-Products," 2007-present.
- EPA Representative, Department of Defense Strategic Environmental Research & Development Program, Executive Working Group, 2007-present.
- EPA Representative (alternate to ORD/AA), Department of Defense Strategic Environmental Research & Development Program, Executive Council, 2007-present.
- Editor, Air Pollution, Environmental Engineering Science, 1997-2010.
- Editorial Board Member, Chemosphere, 2007-2015.
- Embassy Science Fellow, Stockholm, Sweden, 2008
- Acting Branch Chief, EPA Office of Science Policy, 2005

Awards and Honors

- 2016 EPA/ORD Bronze Medal Award, Black Carbon Team
- 2016 EPA/ORD Award: Exceptional/Outstanding ORD Technical Assistance to the Regions or Program Offices, Deepwater Horizon Team
- 2011 EPA Honor Award, BP Gulf Oil Spill.
- 2010 Outstanding Technology Transfer Professional Award, Federal Laboratory Consortium. 2010, Honorable Mention
- 2009 Statesmanship Award, Office of Research and Development
- 2008 Marketing Award, National Risk Management Research Laboratory
- 2006 Exceptional/Outstanding ORD Technical Assistance to China, India, Russia, South Korea, and Ukraine on combustion related issues involving oxides of nitrogen PM, mercury, and air toxics
- EPA Scientific and Technological Achievement Award – Level I: 1998; Level II: 2008, 2006, 1994, 1993; Level III: 2013, 2011, 2008(2), 2007, 2006, 2004, 2001, 2000, 1997, 1993, 1992, 1987; Honorable Mention: 2013, 2012, 2005, 2004, 2003, 2000.

Patents

- Apparatus and Methods for use in Concentration of Gas and Particle-laden Gas Flows, patent no. 8,062,610, issued November 22, 2011.
- Reduction of Chlorinated Organics in the Incineration of Wastes, patent no. 5021229, issued June 4, 1991.
- Reduction of Chlorinated Organics in the Incineration of Wastes, patent no. 5185134, issued February 9, 1993.
- Process and Composition for NOx and SOx Reduction, filed November 27, 1991, U.S. and Taiwan.

Science Matters: Air Sensors and Wildfires
Science Matters: Novel Air Measurement Technology Supports Smoke Management Practices for Prescribed Burns
Science Matters: Simulating Oil Spill Burns to Improve Clean Up and Protect Air Quality
Science Matters Special Edition: Wildland Fire Science