

Ed Brown, Environmental Engineer in EPA's National Risk Management Research Laboratory

Air and Energy Management Division

[Mailing Address](#)

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Areas of expertise:

- Research Facility Design, Construction, & Management
 - o On-site coordinator/supervisor and startup engineer
 - o Modification/relocation/commissioning of existing facilities
 - o Development and maintenance of Facility Manuals and other documentation
 - o Current Manager of Multi-Pollutant Control Research Facility (MPCRF)
- Measurement Technology Development
 - o Laboratory and field studies for measurement technology demonstrations
 - o ORD collaborator: Instrumental Reference Method for mercury (EPA Method 30a)
 - o ORD collaborator: Performance Standard PS18 for HCl
 - o ORD collaborator: Traceability Protocol for mercury calibration standards
 - o EPA/ORD collaborator: NIST mercury standards group
- Coal Facility Pilot Testing
 - o Mercury control research
 - o Measurement technology demonstrations
 - o Investigating surrogacy relationships among HAPs
 - o Emissions control technology demonstrations through FTTA cooperative research

Select publications:

Yelverton, T., A.T. Poe, D.G. Nash, **J.E. Brown**, C.F. Singer, P. Kariher, J.V. Ryan, Characterization of emission from a pilot-scale combustor operating on coal blended with a variety of agricultural by-product (in draft, July 2018).

Yelverton, T., A. Brashear, D. Nash, **E. Brown**, C. Singer, P. Kariher, and J. Ryan. [Comparison of gaseous and particulate emissions from a pilot-scale combustor using three varieties of coal.](#) FUEL. Elsevier Science BV, Amsterdam, Netherlands, 215:572-579, (2018).

Yelverton, T., D. Nash, **E. Brown**, C. Singer, J. Ryan, and P. Kariher. [Dry sorbent injection of trona to control acid gases from a pilot-scale coal-fired combustion facility.](#) AIMS Environmental Science. AIMS Press, Springfield, MO, 3(1):45-57, (2016).

Brown, J. E., F. G. King, W A. Mitchell, W Squier, D B. Harris, and J S. Kinsey. [On-Road Facility to Measure and Characterize Emissions From Heavy-Duty Diesel Vehicles.](#) Journal of Air & Waste Management Association 52(4):388-395, (2002).

Brown, J., D B. Harris, and F. G. King. [Heavy-Duty Truck Test Cycles: Combining Driveability With Realistic Engine Exercise](#). International Journal of Heavy Vehicle Systems. Inderscience Enterprises Limited, Geneva, Switzerland, 7(4):299-316, (2000).

Brown, J. E., M. J. Clayton, D B. Harris, and F. King. [Comparison of the Particle Size Distribution of Heavy-Duty Diesel Exhaust Using a Dilution Tail-Pipe Sampler and In-Plume Sampler During On-Road Operation](#). Journal of The Air & Waste Management Association. Air & Waste Management Association, Pittsburgh, PA, 50:1407-1416, (2000).

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Education

- B.S., North Carolina State University, Raleigh, NC; Chemical Engineering, 1991

Professional Experience

- North Carolina Licensed Professional Engineer (PE) in the field of Chemical Engineering

Awards and Honors

- EPA ORD NRMRL Meritorious Research Support Award, 2011
- Exceptional/Outstanding ORD Technical Assistance to Regions or Program Offices – Trona Team, 2011
- EPA ORD NRMRL Honor Award for Quality Assurance, 2009