CHALLENGES IN AND APPROACHES FOR CONDUCTING HEAVY-DUTY TRUCK ACTIVITY DATA COLLECTION PROGRAMS

**Carl Fulper**

U.S. EPA, Office of Transportation and Air Quality, Assessment Standards Division, Data Testing Center, 2000 Traverwood Drive, Ann Arbor, MI 48105

[fulper.carlr@epa.gov](mailto:fulper.carlr@epa.gov)

**Michael Sabisch and Sandeep Kishan**

Eastern Research Group (ERG), 3508 Far West Blvd, Suite 210, Austin, TX 78731

michael.sabisch@erg.com**;** [sandeep.kishan@erg.com](mailto:sandeep.kishan@erg.com)

Through a number of efforts, the U.S. Environmental Protection Agency (EPA) has been assisting in the collection of PAMS activity data from heavy-duty in-use vehicles. This presentation illustrates some of the issues encountered and offers approaches for developing a successful in-use data collection program. Some topics that will be discussed include considerations when selecting scanning or logging equipment, how to identify and collect data from the different types of hardware and communication protocols found in heavy-duty trucks, how to select the appropriate parameters to acquire in order to meet your study or project objectives, how to capture truck faults and diagnostic information, targeting specific controllers and message types for data collection, tailoring acquisition rates, and handling, understanding and validating the data that has been collected.

.