

Christie-Joy Brodrick

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Dr. Christie-Joy (C.J.) Brodrick holds joint appointments as an Assistant Professor at James Madison University and a Senior Development Engineer at the Institute of Transportation Studies, University of California-Davis. Dr. Brodrick manages ITS-Davis' Auxiliary Power Research Program. She specializes in market and performance analyses of emerging heavy-duty vehicle technologies operating under real-world conditions. At U.C.-Davis and in her previous consulting work, Dr. Brodrick has managed interdisciplinary studies of selective catalytic reduction systems, alternative fueled buses, and fuel cell auxiliary power units. Dr. Brodrick has twice received the Society of Automotive Engineers Excellence in Oral Presentation Award. While a graduate student, she earned a variety of honors, including the selective Dwight D. Eisenhower Fellowship from the U.S. Department of Transportation and best female transportation graduate student in the U.S. from the Women's Transportation Seminar.

Selected Publications

Brodrick, C.J., Lutsey, N.P., Keen, Q.A., Rubins, D.I., Wallace, J.P., Dwyer, H.A., Sperling, D., and Gouse, S.W. III, "Truck Idling Trends: Results of a Northern California Pilot Study." *Society of Automotive Engineers*, December 2001.

Brodrick, C.J., Dwyer, H.A. and Becker, C., "Emissions from Conventional and Hybrid Electric Transit Buses with Standard and San Francisco Specific Driving Cycles." *Society of Automotive Engineers*, November 2002.

Brodrick, C.J., Lipman, T., Farshchi, M., Dwyer, H.A., Sperling, D., Gouse S.W. III, Harris B., and King, F. Jr., "Evaluation of Fuel Cell Auxiliary Power Units for Heavy-Duty Diesel Trucks." *Transportation Research Part D: Energy and the Environment*, June 2002.