



Overview

HOME

7th Diesel Engine Emissions Reduction Workshop

HELP

This was the 7th Diesel Engine Emissions Reduction (DEER) Workshop. It was held in the brand new Renaissance Hotel which is adjacent to the historic Old Town section of Portsmouth, Virginia. We heard about significant advances in emissions reduction and intriguing methods of diesel engine efficiency improvements using the available energy in the exhaust gas. We were updated on the latest understanding of internal combustion engine emission effects on human health in context with the complex mixtures of pollutants in the air. We had a healthy exchange with the environmentalist community. Diesel engines being developed for the light truck, i.e. sport utility vehicle (SUV), pick-up trucks, and mini-van market were available for ride- and-drive demonstrations. These advanced diesel engines being developed with DOE support were installed in SUVs and a pick-up truck that provided noise levels and acceleration competitive with equivalent gasoline engines. However, in combined city/highway driving, these diesel engines provided a 60-percent fuel economy benefit with double the engine life of comparable gasoline engines. Perhaps the Senate's expected increase in Corporate Average Fuel Economy (CAFE) standards of about 35 percent for light trucks will accelerate introduction of diesel engines in these vehicles. Tier 2 emissions standard compliance is the challenge.

The authors are to be congratulated for their outstanding papers with recognition of the considerable efforts involved. Session Chairs were very effective in the timely and effective management of the sessions. Success of this Workshop is directly related to their efforts. Well done!

The administrative and logistical aspects of this Workshop were handled by the Oak Ridge Institute for Science and Education (ORISE) team in an outstanding manner. Deborah Garland in particular should be recognized for her efforts. She managed to get live lobsters from Maine to our Workshop in Virginia! The dinner cruise provided an opportunity to see a good part of our Atlantic Fleet, including 3 of our latest nuclear powered aircraft carriers tied up at Navy piers. These sights stimulated pride in this "former Naval person" and I am sure, elicited similar responses in others. Many of these ships got underway rapidly, headed for troubled areas on September 11 after the dastardly attacks on New York and Washington, DC.

The Renaissance Hotel staff showed us true Southern hospitality which was much appreciated. The generous support of our sponsors contributed significantly to the success of this Workshop. Terry Levinson was very helpful in the planning phase. We appreciate Jim Eberhardt's strong support for the DEER series of Workshops. To emphasize our approach to greatly extend communication to the general public of the advances in diesel engine technology, particularly in emissions reduction, we will change our format for DEER '02 to that of a Conference. The DEER '02 Conference will be held in San Diego, California, in August. We hope to see you there.

John W. Fairbanks
Chair & Organizer - DEER Workshop Series