Poster Location: P-27





Xiaobo Song, Jeffrey Naber, Gordon Parker, John H. Johnson

Michigan Technological University

Josh A. Pihl

Oak Ridge National Laboratory



National Laboratory



Partners on Project

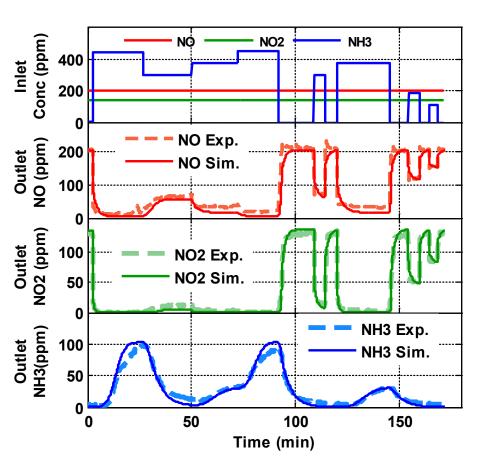
DOE DEER 2012 Conference October 18th, 2012

Acknowledgements: "This material is based upon work supported by the Department of Energy National Energy Technology Laboratory under Award Number DE-EE0000204"

Project Title: Experimental Studies for CPF and SCR Model, Control System, and OBD Development for Engines Using Diesel and Biodiesel Fuels

Objective:

- 1. Experimentally study a Cu-zeolite SCR in both reactor and engine test cell
- 2. Calibrate a 1-D high fidelity 2-stie (2nd site only adsorbs and desorbs NH3) SCR model to both the SCR reactor and engine experimental data



Contents of the Poster:

- 1. How SCR data were collected in a reactor and an engine test cell
- 2. How SCR models for reactor and engine were calibrated
- 3. Comparison of the model parameters between the SCR reactor and engine model