A Study and Comparison of SCR Reaction Kinetics from Reactor and Engine Experimental Data

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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