

Mechanisms of Hydrocarbon Poisoning of a Urea SCR Catalyst

Josh A. Pihl, Todd J. Toops,
C. Stuart Daw
Oak Ridge National Laboratory

Russell G. Tonkyn, Jonathan L. Male,
Darrell R. Herling
Pacific Northwest National Laboratory

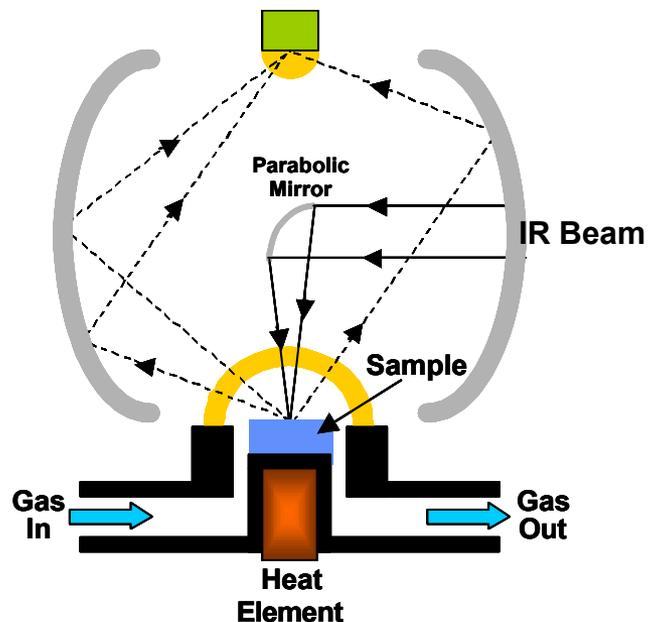
August 3, 2009

DEER
Dearborn, MI

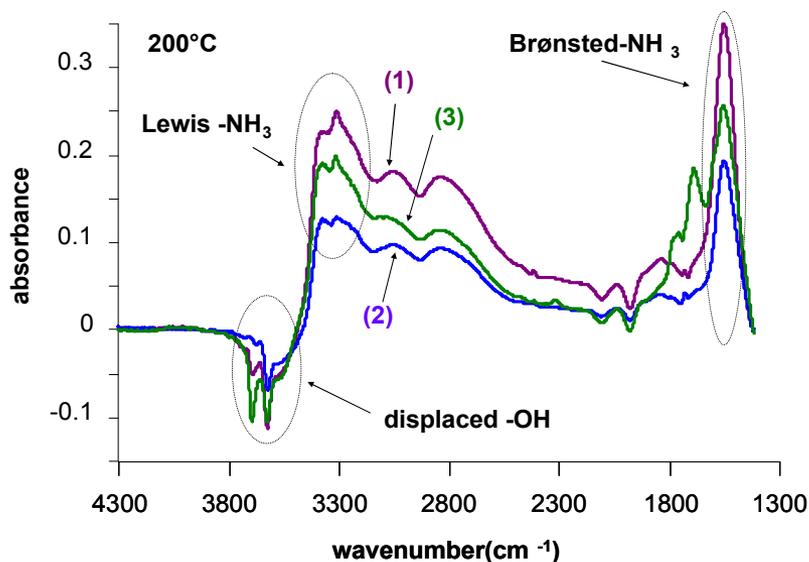


Surface study to understand which SCR reactions are inhibited by hydrocarbons

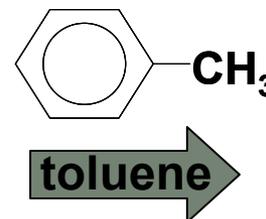
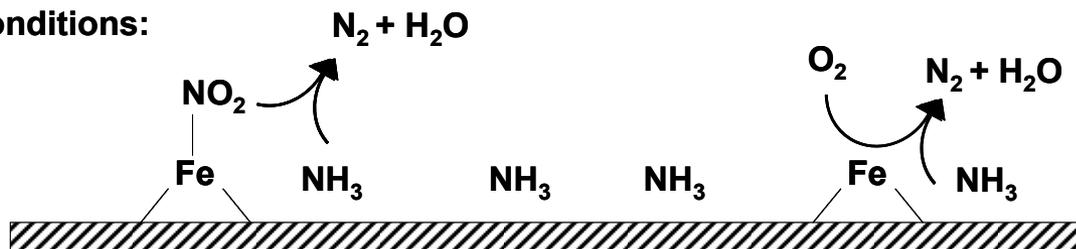
- Hydrocarbons known to inhibit SCR performance
- Understanding what reactions and which catalytic functions are effected leads to improved tolerance



In-situ DRIFTS reactor



SCR conditions:



Poster
P-6