



Novel Catalysts for NO_x Reduction with Reductants Produced In-Situ

POSTER NUMBER: P2

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DEER 2010

SCR-DeNO_x Catalysts

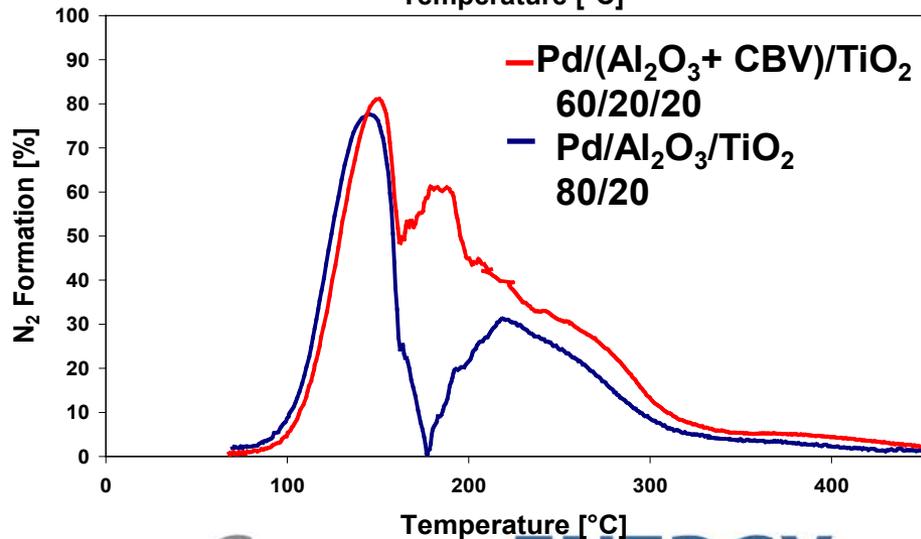
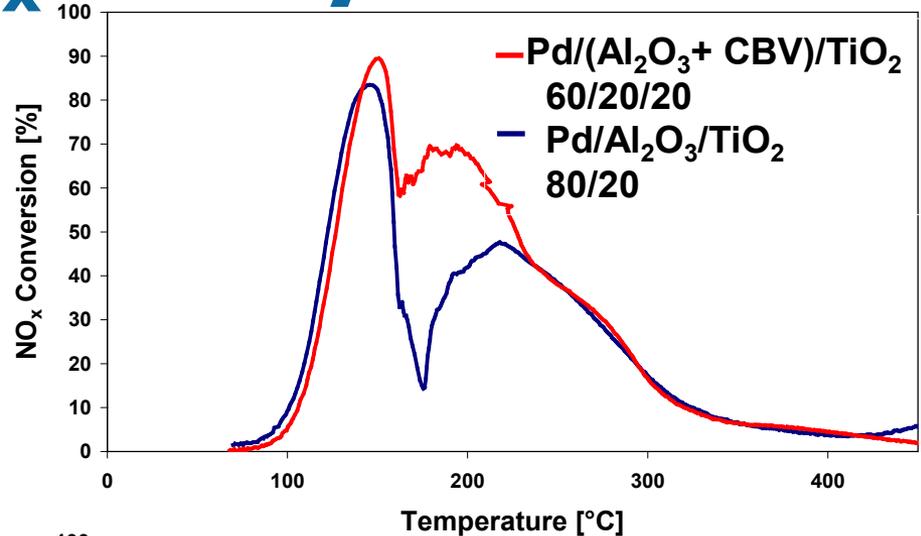
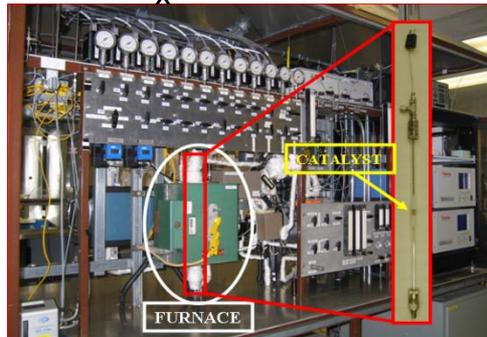
- **Objective:** Prepare selective catalysts with high activity at low temperature for reduction of NO_x from diesel engine exhaust using H₂ and CO.

- **Synthesized:**

- Pd/(γ -Al₂O₃+CBV)/TiO₂ catalysts varying:
 - Support material ratios
 - Pd concentrations
 - Promoters

- **Tested for DeNO_x activity**

- Obtained high DeNO_x activity at low temperature
- **90% NO_x conversion**
- **~80% N₂ formation at 150° C**



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