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The CATALYSIS SOCIETY of Metropolitan New York  
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**Wednesday, January 18, 2012**  
**Crowne Plaza Hotel, Somerset, New Jersey**

**Brian M. Weiss**  
 University of California, Berkeley  
 (Currently at ExxonMobil Research and Engineering)

**Synergies between Catalysts and Adsorbents in Lean NO<sub>x</sub> Traps**

Lean NO<sub>x</sub> traps (LNTs) remove NO<sub>x</sub> from diesel exhaust using an NO oxidation catalyst and an adsorbent that binds the resulting NO<sub>2</sub>. Saturated LNTs are regenerated by hydrocarbon pulses that convert adsorbed NO<sub>x</sub> to N<sub>2</sub>. Synergies between catalysts and adsorbents increase the efficacy of each component in the LNT. NO<sub>2</sub> inhibits NO oxidation; therefore, catalytic rates increase when adsorbents scavenge NO<sub>2</sub> from catalyst sites. NO<sub>x</sub> must be stored as nitrates, which displace carbonates, but nitrates only form when catalyst sites provide an intermediate oxidant that converts molecularly adsorbed NO<sub>2</sub> to nitrates. This seminar will elucidate these synergies and show the effects of catalyst and adsorbent structure on NO<sub>x</sub> storage on LNTs.

Dinner is a buffet, and includes <u>a choice of beef, chicken or fish</u>		Members	<b>\$40</b>
Social Hour (Cash Bar)	6:00 PM	Non-members	<b>\$50</b>
Dinner	7:00 PM	Students	<b>\$25 (Student Members = \$10)</b>
Presentation	7:45 PM	Retired/Post-Doc/ Unemp.	<b>\$40 (Members = \$30)</b>
		Annual Dues	<b>\$35 (Student = \$15)</b>

**Deadline for dinner reservations is 2:00 p.m. Friday, January 13, 2012**

Call or email Lucas Dorazio (732) 205-5173 (lucasd.dorazio@basf.com) for reservations. With the exception of extreme circumstances, anyone not canceling reservations by the above deadline will be billed for dinner regardless of attendance.

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**2010-2011 Officers:** Marco Castaldi (Chair), Simon Podkolzin (Chair-Elect), Wolfgang Ruettinger (Past Chair), Israel Wachs (Catalysis Society Rep), Lucas Dorazio (Secretary), John Brody (Treasurer), Jennifer Wade (Webmaster), David Harris, Colin Beswick, John Byrne (Directors)