

# Distinguished Catalyst Researcher Seminar Series

Professor Dr. Helmut Schwarz

Institute of Chemistry  
Technical University, Berlin, Germany

**"Gas-phase Catalysis by Atomic and Cluster Metal  
Ions: The Ultimate Single-Site Catalysts"**

**Pacific Northwest National Laboratory  
Richland, Washington**

**Date:** October 1, 2007

**Time:** 10:00 am

**Location:** EMSL Auditorium

**Hosted By:** Chuck Peden **Phone:** 376-1689