




Pacific Northwest
NATIONAL LABORATORY

Proudly Operated by **Battelle** Since 1965



Frontiers in Materials Science and Advanced Computing, Mathematics, and Data Seminar Series

Advanced Potential Energy Surfaces for Condensed Phase Simulation



Teresa Head-Gordon
Professor, UC Berkeley
Scientist, Lawrence Berkeley
National Laboratory

January 26, 2015

10-11 a.m.

ETB Columbia River Room

In her talk, Dr. Head-Gordon will introduce new theoretical models and methods that include direct and mutual polarization based on the AMOEBA (atomic multipole optimized energetics for biomolecular applications) polarizable force field and a Poisson-Boltzmann semi-analytic method. These models and their implementations on multicores are opening new abilities to allow larger scales of study for molecular simulation with more complex potential energy surfaces.

Dr. Head-Gordon is a professor at UC Berkeley in the departments of Chemistry, Bioengineering, and Chemical and Biomolecular Engineering, and a scientist at the Lawrence Berkeley National Laboratory. Her research program focuses on the interface of theoretical chemistry with biology and physics.

Hosted by:

- Dr. Christopher Mundy, 509-375-2404, chris.mundy@pnnl.gov, for MS³
- Dr. Nathan Baker, 509-375-3997, Nathan.Baker@pnnl.gov, for CM4