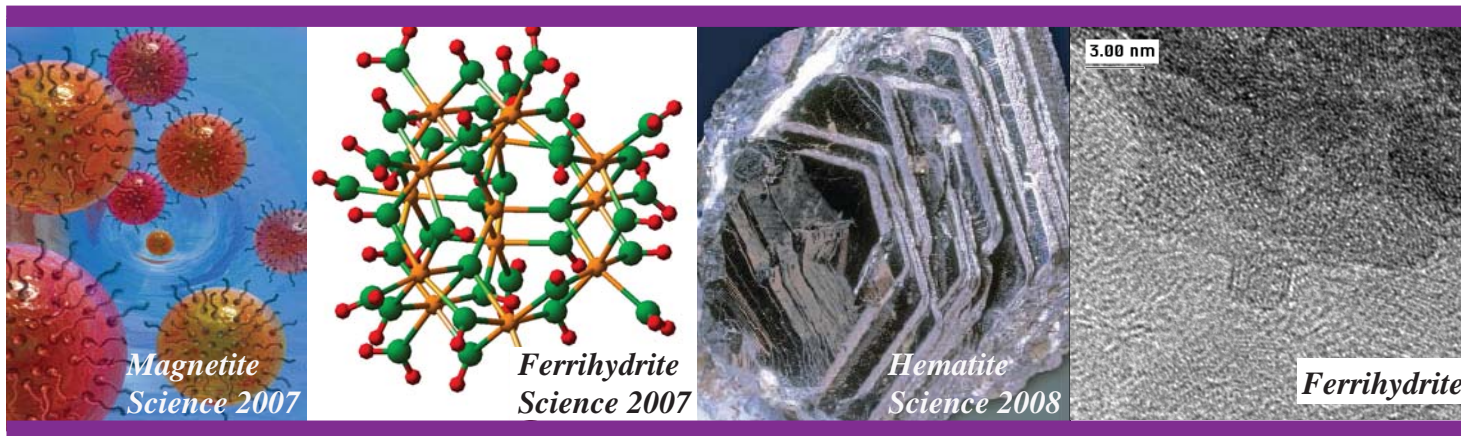


Geochemistry Division Symposia  
at the 237th American Chemical Society National Meeting,  
Salt Lake City, UT, March 22-26, 2009

**Multiscale Reactions including Fe-Oxides,  
Oxyhydroxides, and Hydroxides**

Organizers: Young-Shin Jun, Washington University ([ysjun@seas.wustl.edu](mailto:ysjun@seas.wustl.edu)) and  
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Iron-oxide and hydroxide phases are important in the environment and industry. The nucleation and growth of these phases are extremely complex as subtle changes in conditions (e.g., pH, ionic strengths, and impurities) can lead to dramatic changes in crystal habit or phase stability. Aggregation of the initially formed phases can also lead to phase transitions to more stable phases.

This symposium seeks to bring together scientists and engineers from multidisciplines with a common interest in iron-oxides and hydroxides (from nanoscale to macroscale). Of special interest are studies on the nucleation and growth of the phases connected with changes in crystal phases or surface reactivity. Specific Topics may include (but are not limited to):

- Nucleation Mechanisms and Kinetics
- Aggregation and Growth
- Adsorption/Desorption Reactions
- Electron Transfer and Redox Reactions of Various Phases and Crystal Surfaces
- Biologically-Mediated Reactions
- Effects of Impurities on Structure, Energetics, and Kinetics of Various Reactions
- Techniques of Special Interests (Synchrotron-Based X-ray Techniques, HRTEM, Computational Chemistry, Spectroscopies, and other Multi-Scale Studies)

**Invited Speakers Include:** Alex Navrotsky (University of California, Davis)  
Glenn A. Waychunas (Lawrence Berkeley National Laboratory)  
Kevin M. Rosso (Pacific Northwest National Laboratory)  
Clare Grey (Stony Brook University)  
R. Lee Penn (University of Minnesota)  
Marc Michel (Stanford University)