Abstract Submitted
for the MAR14 Meeting of
The American Physical Society

Superconductivity and magnetism in naturally occurring minerals RENXIONG WANG, S.R. SAHA, XIANGFENG WANG, R.L. GREENE, J. PAGLIONE, Department of Physics, University of Maryland College Park, C. SANTELLI, J. POST, Department of Mineral Sciences, Smithsonian Museum of Natural History — In a new and unique venture in collaboration with the Smithsonian Museum of Natural History's Department of Mineral Sciences, we present preliminary results from a project focusing on the search for superconductivity in mineral specimens provided by Geologists/Curators of the Smithsonian Institution. Including magnetization and transport studies of Wittichenite, Pyrrhotite, Nagyagite, Pyrargyrite and other related compounds, we report preliminary findings of the physical properties of mineral specimens at low temperatures, including several unreported magnetic phases and unconvetional behaviors.

Renxiong Wang
Department of Physics, University of Maryland College Park

Date submitted: 15 Nov 2013 Electronic form version 1.4