

2010

Global COE -Deep Earth Mineralogy-
3rd International Special Lecture

第3回グローバルCOE（第9回GRC）国際レクチャー

Lecturer: **Dr. Catherine McCammon** (Staff Scientist)
Bayerisches Geoinstitut, Universität Bayreuth

Lecture I: February 9, 2010 13:00-16:00

"Transition metal chemistry and the Earth's interior"

1. Introduction
2. Crystal field theory
3. Crystal chemistry of transition metal-bearing minerals
4. Trace element geochemistry
5. Mantle geochemistry

Lecture II: February 10, 2010 9:00-12:00

"Oxygen fugacity and the Earth's interior"

1. Introduction
2. Thermodynamics
3. Controlling oxygen fugacity
4. Measuring oxygen fugacity: experiment
5. Measuring oxygen fugacity: natural samples
6. Oxygen fugacity in the Earth's mantle

Seminar: February 9, 2010 17:00-18:00

"Effect of spin transitions on properties and dynamics of the lower mantle"

Venue : Geodynamics Research Center, Ehime University
(Meeting room, Sogo-kenkyu-to I, 6F)

URL : <http://deep-earth-mineralogy.jp/>

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