

# INORGANIC SEMINAR

**Professor Christian Limberg**  
Humboldt University,  
Berlin  
Department of Chemistry



**Wednesday, October 30**  
**12:00 pm**  
**Lander Auditorium**  
**140 Hutchison Hall**  
**University of Rochester**  
**Department of Chemistry**

**Title: “Solid catalysts and enzymes as an inspiration for the design of functional molecular compounds”**

**Abstract:** The Limberg group uses both, the active sites of enzymes and solid materials, as paragons but also as objects of investigation to deal within one of its major research areas with metal-oxygen systems; this includes O<sub>2</sub> activation, molecular metal oxido and dioxygen complexes as well as the utilization of such compounds for the oxidation of hydrocarbons. In this context also mechanistic questions are intensely pursued. A second focal point is dealing with the activation of small substrates like N<sub>2</sub>, CO<sub>2</sub> and H<sub>2</sub> with the aid of reduced or Lewis acidic metal complexes, the synthesis of which partly is also inspired by biological systems.

Host: Professor Ellen Matson • email: [matson@chem.rochester.edu](mailto:matson@chem.rochester.edu)

