

JEFFREY I. ZINK INORGANIC CHEMISTRY SEMINAR SERIES



Prof. Brandon Barnett

Department of Chemistry, University of Rochester

“Mimicking Non-Heme Iron Enzymes through Confinement”

Abstract: The Barnett group works at the interface of bioinorganic coordination chemistry and materials science, and a pervasive theme in our work is the precise engineering of void spaces at various length scales. Our synergistic efforts have led to unique models for intermediates in non-heme iron catalysis, as well as dynamic porous materials for separation science and gas storage. This talk will focus on the former topic, for which we have built small coordination complexes that contain rigid voids which site-isolate a metal coordination site. These efforts have culminated in rare examples of formally high-valent iron species that mimic putative metalloenzyme intermediates, yet display pronounced kinetic persistence on account of the rigid supporting scaffold.

Meet the Speaker

11:45 a.m. | YH 3096

Wednesday, November 4th, 2026

4:00 p.m. | YH4222 - Collaboratory

Dongwon Yoo Seminar &
Conference Hall

UCLA College | Physical Sciences
Chemistry & Biochemistry

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This event is made possible by generous donations from our supporters and also through the gifts of the Bhaumik Centennial Collaboratory, Yoo Seminar & Conference Hall, Tsay Study Lab, and Centennial Collaboratory Donor Wall & Space Funds.