

Richard A. Walton
Lecture in
Inorganic Chemistry



William D. Jones
Professor of Chemistry

***“Catalysis with
First-Row Transition
Metal Complexes”***

**November 9, 2023
4:30 p.m. WTHR 104**

**Reception beginning at 3:45 p.m.
in the Leighty Commons**

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***“Catalysis with First-Row Transition
Metal Complexes”***

Our group has focused on dehydrogenation reactions of alcohols to give ketones and esters using complexes of Earth-abundant first row metal complexes of iron, cobalt, and nickel. Amines can also be dehydrogenated. Recent work with fused bisoxazoline (FOX) ligands has revealed catalysts for alcohol dehydration rather than dehydrogenation. Applications to the Guerbet upgrading of ethanol to 1-butanol will be presented.