



# Center for Integrated Catalysis Webinar Series

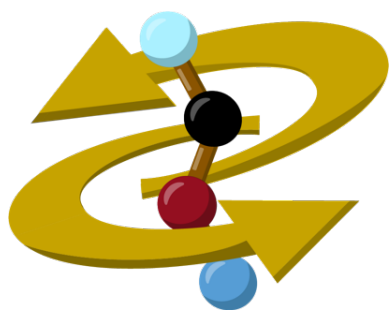


## Prof. Shelley Minteer

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## Bioelectrocatalysis for Electrosynthesis

**Abstract:** In the last five years, there have been extensive studies and new materials designed for interfacing biocatalysts with electrode surfaces. This talk will discuss electroanalytical techniques for studying biocatalysis, including both mediated bioelectrocatalysis and direct bioelectrocatalysis. The talk will discuss electrode materials innovation for interfacing complex proteins with electrode surfaces as well as using them for electrosynthesis of ammonia as well as other value-added products (i.e. chiral amines, chiral amino acids, polymers, etc.). This talk will discuss strategies for cofactor regeneration. Finally, this talk will discuss the use of synthetic biology for microbial bioelectrosynthesis of ammonia and other value-added products.



**Tuesday, May 11th, 2021**

**1:00 p.m. (PDT) | Zoom**