



# Center for Integrated Catalysis Webinar Series

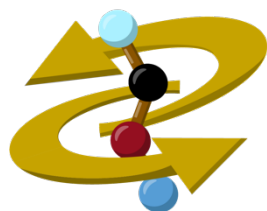


**Prof. Matthew Conley**

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## **“An Organometallic Perspective on Surface Functionalization”**

**Abstract:** Generation of catalytically active sites on “inert” oxide supports is a robust methodology used by chemical industry to generate heterogeneous catalysts that mediate most large-scale chemical processes. One of the most important, yet prosaic, features of some heterogeneous catalysts is the inability of active sites to “move” on the support, which generates reactive site-isolated active sites that can have higher activity or selectivity than related homogeneous catalysts. As chemists, how can we leverage this property in catalyst design? In this webinar I will describe immobilization of organometallic species onto functionalized surfaces as a method to understand relevant industrial models for common Ziegler-type olefin polymerization catalysts (e.g.  $\text{Cp}_2\text{ZrCl}_2/\text{AlR}_3/\text{oxide}$ ) and to more generally access cationic surface species.



**CENTER FOR  
INTEGRATED  
CATALYSIS**

**Thursday, March 16<sup>th</sup>, 2023**

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

If you have any questions/concerns, please contact Stephanie Lo at [stephanie.lo@chem.ucla.edu](mailto:stephanie.lo@chem.ucla.edu).