

**Herman Frasch Fund for Chemical Research**

**Grants in Agricultural Chemistry**

**For the period 2017-2022**

**All Grants \$250,000**

**Dr. Marcus Foston**, Washington University in St. Louis, Elucidating the Chemical Mechanisms and Kinetics for Lignin Disassembly with Bimetallic Metal Oxides

**Dr. Alexis D. Ostrowski**, Bowling Green State University, Biodegradable, Photoresponsive Hydrogels for Controlled Application of Nutrient Fertilizers

**Dr. Yujie Sun**, Utah State University, Ammonium Production From Dinitrogen Reduction via Inexpensive Electrocatalysts

**Dr. David J. Vinyard**, Louisiana State University, Photosystem II Turnover as a Determinant of Net Photosynthetic Efficiency

**Dr. Jimmie Weaver**, Oklahoma State University, The Development of Novel C–F Functionalization Reactions for Access to Multifluorinated Arenes and the Development of Novel Selective Dicot Herbicide

**Dr. Emily Weinert**, Emory University, Globin Coupled Sensor-Dependent Regulation of *Pectobacterium carotovorum* Motility, Virulence, and Quorum Sensing

**Dr. Andrew J. Wiemer**, University of Connecticut, Herbicidal versus Immunological Activity of Small Organophosphorus Compounds

**Dr. Michael C. Young**, University of Toledo, Rapid and Economic Synthesis of Next Generation Herbicides via Carbon Dioxide-Directed C-H Bond Functionalization