

HONORS COLLEGE RESEARCH COLLOQUIUM

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HALEY CENTER ROOM 3034

CHASE RICHBURG

Chase Richburg graduated as an Honors Scholar with a Bachelor of Arts in Chemistry in August of 2017. While at Auburn, Chase participated in undergraduate research with Dr. Byron Farnum, where he studied small inorganic molecules. In the course of his undergraduate three years at Auburn, Chase was a student worker at the President's Estate on campus and the President's Office in Samford Hall. He was involved in many organizations, including the International Buddy Program and Honors Serves, and he also was a peer instructor for a freshman honors orientation class. After graduating in early August, Chase married his college sweetheart, Nicole, and started graduate school in chemistry under his undergraduate research professor, Dr. Byron Farnum. Currently, the Farnum group is studying p-type metal oxides for thin film solar cell application and electrochemical energy storage using nickel coordination compounds. The specific molecules of interest in Chase's research are Nickel dithiocarbamates, and their unique metal-ligand bond properties to drive two electron oxidation and reduction with the addition of nitrogenous bases. Outside of research, Chases teaches undergraduate honors chemistry labs and enjoys hunting, camping, and hiking with friends and family



DYNAMIC INORGANIC CHEMISTRY AND RENEWABLE ENERGY TECHNOLOGY

Transition metal inorganic chemistry has a broad range of applications in everything from smart phones, metalloenzymes in biology, to renewable energy conversion and storage. This talk will begin by examining some of the unique properties and applications of transition metals followed by focusing in on electrochemical techniques used to probe properties of redox active molecules, specifically, Nickel dithiocarbamates.

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