

College of Liberal Arts and Sciences Fall 2020 Chemistry Seminar Series Friday, December 4th

Dr. Ken Stedman Biology Department and Center for Life in Extreme Environments Portland State University

From Zombie Viruses to COVID-19: Adventures in vaccines

Abstract: Studies on virus mineralization led to the serendipitous discovery that silica-treatment could reversibly inactivate a number of very different viruses. These silica-coated viruses were then shown to be resistant to inactivation by drying. More recent work, in collaboration with PSU-spin off company, StoneStable, Inc. has shown that silica-treatment can reversibly inactivate some viral vaccines. Current work is focusing on SARS-CoV-2 vaccine platforms. Background on COVID-19 vaccines and science outreach will also be discussed.