

Special Seminar:

Engineering Nanomaterials for Sustainable Agriculture

Presented by

Gregory V. Lowry

Walter J. Blenko, Sr. Professor of Civil & Environmental Engineering
Carnegie Mellon University, Pittsburgh, PA

February 9th , 1-2:30pm

Senate Chambers, Lory Student Center, Colorado State University

Greg Lowry is the Walter J. Blenko, Sr. Professor of Civil and Environmental Engineering at Carnegie Mellon University. He is the Deputy Director of the NSF/EPA Center for Environmental Implications of Nanotechnology (CEINT), and an Associate Editor of *Environmental Science: Nano* and *Nature: Scientific Data*. Dr. Lowry earned his



B.S. in Chemical Engineering from the University of California at Davis, M.S. from the University of Wisconsin at Madison, and Ph.D. in Civil and Environmental Engineering and Stanford University. His current research and teaching focuses on safely harnessing the unique properties of engineered nanomaterials for applications in water treatment and food production.

Seminar Summary:

Incomplete understanding of how a nanomaterial's properties control its activity, fate, and bioavailability in agricultural systems hinders development of novel applications, e.g. agrochemical delivery. My current research aims to develop a more fundamental understanding of how the properties of nanomaterials can be engineered to promote phloem loading in foliar applications, and how nanomaterial and soil properties together affect nanomaterial transformations.