

DISTINGUISHED SCHOLAR SEMINAR
***Biological Stoichiometry of Nutrient Limitation
in Ecology and Evolution***

Dr. James Elser

Bierman Professor of Ecology & Director

Flathead Lake Biological Station, University of Montana

Research Professor

School of Life Sciences & School of Sustainability, Arizona State University



Dr. Elser's research involves the integrative field of biological stoichiometry, the study of balance of energy and multiple chemical elements in living systems.

While this work is primarily ecological in focus and includes studies of both aquatic and terrestrial ecosystems and biota, the approach uses an evolutionary perspective to integrate levels of organization from the molecule and cell to the ecosystem.

Biological stoichiometry is the study of the balance of energy and multiple chemical elements in living systems. This talk will introduce some of the basic principles of stoichiometric theory and apply them to understanding the occurrence and impact of nutrient limitation in ecological and evolutionary settings using examples from both aquatic and terrestrial ecosystems. Finally, the talk will deal with how nutrient limitation might itself shape the long-term sustainability of human society, focusing on issues related to phosphorus and its role in agriculture and water quality.

Thursday, January 12, 2017

2:00 PM – 3:00 PM

Reitz Union Chamber (ground level)

For additional details about Dr. Elser's seminar, please contact Carol Lippincott at the UF Water Institute (calippincott@ufl.edu).