



ENVIRONMENTAL AND ECOLOGICAL ENGINEERING

EEE Seminar

DATE: Tuesday, April 19, 2016

TIME: 9:30 A.M.

LOCATION: FRNY G124

James R. Mihelcic, PhD, BCEEM

**Samuel L. and Julia M. Flom Professor & State of Florida 21st Century World Class Scholar
Director, Peace Corps Master's International Program in Civil & Environmental Engineering
Director, EPA National Research Center for Reinventing Aging Infrastructure for Nutrient Management
University of South Florida**

“Engineering Health Improvements for Developing World Communities”

Abstract

Welcome to a vision of a world where all have access to sanitation, potable water, and safe indoor air; where all children are able to learn in well built classrooms; where families no longer suffer from disease, starvation, and poverty; where renewable energy has replaced fossil fuels—and environmental engineering research is part of the solution. In this talk Professor Mihelcic will provide examples of several recent research projects located in the developing world that seek to increase global access to safe water and improved sanitation and also enhance food security. Examples may include: assessing the health effectiveness of an in-line chlorinator used to protect a gravity flow water supply system in two rural indigenous communities in western Panama, assessing the sustainability of handwashing stations in Mali, and measuring concentrations of dissolved Pb in water from locally-manufactured suction pumps under recently flushed and first-draw pumping conditions in Madagascar.

BIO

Dr. James R. Mihelcic is the Samuel L. and Julia M. Flom Professor & State of Florida 21st Century World Class Scholar at the University of South Florida. Dr. Mihelcic directs over \$7 million of research projects including an EPA National Research Center for “Reinventing Aging Infrastructure for Nutrient Management” and an NSF Partnerships for International Research and Education project titled Context Sensitive Implementation of Synergistic Water-Energy Systems. He also directs the Peace Corps Master's International Program in Civil & Environmental Engineering which allows students to combine their graduate studies with engineering service and research in the Peace Corps. Dr. Mihelcic is a member of the Environmental Protection Agency's Science Advisory Board, a past president of the Association of Environmental Engineering and Science Professors, and past Board Trustee with the American Academy of Environmental Engineers & Scientists. He is also the lead author for 3 textbooks that cover environmental engineering, sustainability, and global water and sanitation.