**Food for the Twenty-First Century**  
Bioprocessing and Biosensing Center

**Spring 2015 Seminar Series**

**PRESENTER:** Dr. Joseph Henggeler  
Extension Associate Professor, MU Ag Ext-Food Sci & Nutrition

**TITLE:** Using Extension Engineering to Benefit Irrigators: Case Studies from both Arid and Semi-humid Worlds

**ABSTRACT:**  
This presentation will briefly look at extension irrigation engineering in west Africa, west Texas, and southeast Missouri (SEMO). Engineering principles used in the SEMO story will be examined in detail.

**BIOGRAPHICAL:**  
My career in extension irrigation engineering has spanned 45 years -- from arid to humid environments, from hand-forged implements to satellite and LASER technology. Although in all cases the goal was to improve the lives of the irrigator and his family, the methods used were obviously different. Remarkably though, the extension methods of technology transfer were quite similar.

**DATE • TIME • LOCATION:**  
Tuesday, February 10, 2015, 4:00 PM, 105 Agricultural Engineering Building

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The Food for the 21st Century (F21C) program at the University of Missouri (MU) was established in the mid-1980's through state funding. The overall goal of the program is to help Missouri food producers and processors maintain their competitive edge in the global marketplace by conducting cutting-edge research in a number of food-related areas. The program involves faculty researchers from multiple colleges including College of Agriculture, Food and Natural Resources; College of Arts and Sciences; College of Engineering; School of Medicine; College of Human Environmental Sciences; and College of Veterinary Medicine. Based on the research emphases, the researchers are grouped into four Clusters: Plant Biotechnology; Animal Reproduction; Bioprocessing and Biosensing Center; and Human Nutrition.

Bioprocessing and Biosensing Center was formed in 1986. The Center currently consists of 27 faculty members, plus collaborators, support staff, and graduate students from six departments in the College of Agriculture, Food and Natural Resources and College of Engineering. These departments include Bioengineering; Food Science; Animal Sciences; Chemical Engineering; Electrical Engineering; and Mechanical and Aerospace Engineering. This seminar is one of the educational activities in the Bioprocessing and Biosensing Center.