Research Seminar

GUEST SPEAKER: Dr. Gül E. Kremer  
Professor of Engineering Design & Industrial Engr.  
The Pennsylvania State University

TOPIC:  “Use-Inspired Basic Research: Progress through Multidisciplinary and Interdisciplinary Collaborations”

DATE:   Friday, April 1, 2016  
TIME:  12:00 p.m. – 1:00 p.m.  
PLACE:  107 Engineering Unit A

All Faculty and Graduate Students are invited to attend.  
Pizza and Sodas will be served  

Sponsored by the Department of Architectural Engineering

Abstract:

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Although most engineering training is undertaken in single disciplinary communities, the complexity of contemporary problems requires input from disciplines with both close and less apparent connections to the problems for engineered solutions to be comprehensive and to be most relevant to the use context. Despite this need, progression towards multi- and interdisciplinary in research and education is slow because it requires leaving zones of comfort and cultivating openness to continuous learning amongst researchers. In this talk, various benefits of use-inspired research will be discussed through examples of research in design, manufacturing and healthcare domains. Multi- and interdisciplinary, use of authentic data, and difficulties and benefits of collaborative research will be discussed in relation to product/system design and development theory, sustainability, innovation, and product and supply chain research topics addressed by her research teams.

Bio:

Gül E. Kremer is a Professor of Engineering Design and Industrial Engineering at The Pennsylvania State University. She has served in several leadership roles within Penn State, including Chair of the Engineering Faculty Council, Engineering Caucus Leader, Chair of Engineering Curriculum Committee and Chair of the University Planning Committee. Dr. Kremer has degrees in industrial engineering from Yildiz Technical University, an MBA from Istanbul University and a PhD in Engineering Management from Missouri University of Science and Technology. She has been a National Research Council-US AFRL Summer Faculty Fellow in the Human Effectiveness Directorate from 2002 to 2004, and a Fulbright Scholar (2010-2011). She has been serving as a Program Director in the National Science Foundation’s Division of Undergraduate Education since August 2013. Dr. Kremer’s research interests include applied decision analysis to improve complex products and systems, and engineering education. The results of her research efforts have been presented in various publications including 3 books and more than 280 refereed publications. Six of her papers have been recognized with Best Paper awards. She has active research collaborations in China, France, Mexico and Taiwan.