



Industrial and Systems Engineering Seminar Series
in conjunction with the ADVANCE Center

**Industrial and Systems Engineering and Health Care:
Critical Areas of Research**

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University of Wisconsin-Madison**

Monday, November 19, 2012, 1:50 – 2:40
3024 Emerging Technologies Building

Abstract: Mindful of potential synergies between health care and ISyE, the Agency for Healthcare Research and Quality (AHRQ) and the National Science Foundation (NSF) convened a workshop in 2010 in which experts in both fields were asked to explore the critical areas of research at the intersection of ISyE and health care, with a special emphasis on the supportive role of health information technology (IT). Beginning with a vision of the health system of the future, the report examined Barriers and Facilitators to Achieving Breakthrough Change with ISyE Knowledge and identified future research needs both in expanding the application of known industrial engineering techniques to health care as well as accelerating the development of new industrial engineering techniques to meet the special needs for health care. New funding initiatives from the National Science Foundation and the Agency for Health Care Research and Quality resulted from this report. Drawing from Brennan's 25 year program of research in consumer health informatics, this talk will introduce attendees to a vision of health care beyond institutional boundaries and explore industrial engineering techniques needed to make possible insuring health for all.

Bio: Patricia Flatley Brennan is the Moehlman Bascom Professor in the Department of Industrial and Systems Engineering at the University of Wisconsin - Madison. Her degrees include a B.S.N. from the University of Delaware, a M.S.N. from the University of Pennsylvania and a Ph.D. from the University of Wisconsin - Madison. Her areas of interest include health informatics, community health, information systems, computer-mediated clinical practice, and health services research. She is a Member of the Institute of Medicine and a Fellow of both the American Academy of Medical Informatics and the American Academy of Nursing. She is also a member of American Nurses Association, WI Nurses Association, Sigma Theta Tau, Alpha Mu, and Beta Eta. She serves as associate editor of the *Journal of the American Medical Informatics Association*.