

University of Southern California

---

**DANIEL J. EPSTEIN DEPARTMENT OF  
INDUSTRIAL AND SYSTEMS ENGINEERING**

---

**EPSTEIN INSTITUTE SEMINAR • ISE 650 SEMINAR**

## ***Healthcare Systems Engineering***

**Dr. John W. Fowler**

**Avnet Professor of Supply Networks  
Professor of Industrial Engineering  
Arizona State University**

### **ABSTRACT**

Modern industrial engineering, systems engineering, operations management, and operations research methods hold significant promise for health care systems and quality of care research. Among the most promising methods are optimization, queuing theory, and process simulation. This presentation will utilize some recent research efforts to demonstrate the application of industrial engineering and operations management principles and tools to improve health care systems.

**TUESDAY, APRIL 12, 2011  
ANDRUS GERONTOLOGY BUILDING (GER) ROOM 309  
3:30 – 4:50 PM**

## BIO

JOHN W. FOWLER is the Avnet Professor of Supply Networks and a Professor of Industrial Engineering in the School of Computing, Informatics, and Decision Systems Engineering at Arizona State University (ASU). He currently serves as the Program Chair of Industrial Engineering. Professor Fowler's research interests include modeling, analysis, and control of manufacturing and service systems. His research has been supported by the National Science Foundation, Semiconductor Research Corp., International SEMATECH, Advanced Micro Devices, Amkor, Asyst, IBM, Intel, Infineon Technologies, Motorola, National Semiconductor, ST Microelectronics, and the Mayo Clinic. Dr. Fowler is an author/co-author of over 75 journal publications, 100 conference papers, and 10 book chapters. He is the founding editor of the new journal *IIE Transactions on Healthcare Systems Engineering*. He is also an Area Editor for *SIMULATION: Transactions of the Society for Modeling and Simulation International*, an Associate Editor for *IEEE Transactions on Semiconductor Manufacturing*, and an Associate Editor for the *Journal of Simulation*. He was a co-Program Chair for the 2002 and 2008 Industrial Engineering Research Conferences and the Program Chair for the 2008 Winter Simulation Conference. Professor Fowler is a Fellow of the Institute of Industrial Engineers, a former INFORMS Vice President for Chapters/Fora, and is on the Winter Simulation Conference Board of Directors.