Please join us for the Center for Technology and Behavioral Health (CTBH) seminar with

**David Gustafson, Ph.D.**  
*Research Professor of Industrial and Systems Engineering, University of Wisconsin-Madison*

**Wednesday, December 14, 2011**  
*9:00 – 10:30am*  
Psychiatric Research Center  
Training Room, 4th Floor  
Rivermill Commercial Center  
85 Mechanic Street – Lebanon, NH  
This seminar will also be available via WebEx – instructions will be sent via email before the seminar.

**Impact of smartphone systems to improve patient outcomes. Results of randomized trials.**

In this presentation, Dr. Gustafson will, 1) describe smartphone systems designed to help inner city teenagers with asthma and alcoholics prevent relapse, 2) describe early results from two randomized trials evaluating their impact and 3) discuss implications for design, evaluation, dissemination and sustainability of wireless technologies in healthcare delivery.

**David Gustafson, Ph.D.**, is Research Professor of Industrial and Systems Engineering at the University of Wisconsin-Madison. He directs the National Cancer Institute designated Center of Excellence in Cancer Communications (chess.chsra.wisc.edu), the National Program Office of the Network for the Improvement of Addiction Treatment and the Agency for Health Care Research and Policy’s Active Aging Research Center of Excellence.

His research focuses on the use of systems engineering methods and models in individual and organizational change, employing randomized trials (five ongoing) as a key evaluation strategy.

His individual change research focuses on developing and evaluating eHealth systems using as the test vehicle CHESS (the Comprehensive Health Enhancement Support System), a computer system delivered through laptop and mobile technology to help people facing serious health problems with a particular focus on cancer, asthma and addiction. His randomized trials of CHESS help understand acceptance, use and impact of eHealth on quality of life, behavior change and costs of care.

His research and development on organizational change aims at developing and evaluating strategies for promoting and sustaining improvement in behavioral health care and involves over 2700 treatment agencies and the single state agency (SSAs) in 36 states.

Dr. Gustafson is a Fellow of the Association for Health Services Research, the American Medical Informatics Association and the Kellogg Foundation. He is a Fellow and past Vice-Chair of the Board of the Institute for Healthcare Improvement. He also chaired the Federal Science Panel on Interactive
Communications in Health and the eHealth Institute, served on several Institute of Medicine committees and led two national program offices of the Robert Wood Johnson Foundation.

The Center for Technology and Behavioral Health (CTBH) is a P30 “Center for Excellence”, funded by the National Institute on Drug Abuse (NIDA), composed of an interdisciplinary research group focused on the development, evaluation and dissemination of technology-based therapeutic tools targeting substance use and co-occurring behavioral health issues. The Center, directed by Dr. Lisa Marsch, is housed within the Psychiatric Research Center at Dartmouth College, and includes collaboration with researchers at the National Development and Research Institutes, Inc. (NDRI).

The next CTBH seminar will be: Linda Collins, PhD from the University of Pennsylvania: “The Multiphase Optimization Strategy (MOST) for engineering better behavioral interventions” on Monday, December 19th from 9:00-10:30am at the Psychiatric Research Center.

Please contact Kristin Collins, kristin.collins@dartmouth.edu with any questions or to be added to this distribution list.

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