

**Biomedical and Health Informatics Presentation**  
**Tuesday, April 17th, 2007 1:00-1:50pm**  
**Mary Gates Hall, Rm. 234**

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***“Wireless Internet Information System for Medical Response in Disasters”***

Disaster settings have many unique features that prevent the direct use of existing informatics technologies. A critical issue for disaster response is computing in mobile environments with little wireless networking infrastructure (because the area is remote and the infrastructure does not exist or because the disaster has destroyed that infrastructure.) The Wireless Internet Information System for Medical Response in Disasters (WIISARD) project seeks to develop and evaluate new mobile computing architectures to grapple with difficult problems of computing in extreme environments with unreliable connectivity. Using an interdisciplinary approach with close integration of first responders in a participatory design process, WIISARD examines issues ranging from mesh networking, to middleware for data distribution, to work flow optimization and data sharing. Software systems are tested in large scale exercises with first responders using combined qualitative and quantitative methods informed by cognitive analysis.

<http://www.wiisard.org/>

Dr. Leslie Lenert is Director of the Health Services Research and Development for the Department of Veterans Affairs San Diego Healthcare System, Associate Director of the San Diego Division of the California Institute for Telecommunications and Information Technology (Calit2 )and Professor of Medicine at the University of California, San Diego School of Medicine. A graduate of the University of California, Riverside and the University of California, Los Angeles School of Medicine, he has completed residency in Internal Medicine at the University of Texas Southwestern Medical School and Fellowships in Biomedical Informatics and Clinical Pharmacology at Stanford University School of Medicine. He has conducted research on a wide variety of topics in informatics including automated systems for drug dosing, preference elicitation, use of the Internet for behavioral change, and on informatics systems for disaster response.