

WILLIAM MAXWELL REED MECHANICAL ENGINEERING SEMINAR

Integrated and Dynamic Imaging of Biosystems

Kenneth D. Kihm, Ph.D., P.E.

Professor, University of Tennessee, Knoxville

Abstract: Dr. Kihm will present his teams continuing efforts to develop integrated and dynamic visualization techniques for micro/nano/bio-fluidics applications.

The presentation will provide brief overview on four different elements of the dynamic and integrated imaging system available at his laboratory, including Confocal Laser Scanning Microscopy, Total Internal Reflection Fluorescence Microscopy, Surface Plasmon Resonance Microscopy, Interference Reflection Microscopy

Example application of the integrated and dynamic imaging system will be presented for cellular morphology for endothelial cells.

Bio: Kenneth Kihm received his BS and MS in Mechanical Engineering from Seoul National University in 1979 and 1981 respectively, and his Ph.D. from Stanford University in 1987. He began his career as a Postdoctoral Research Associate at Carnegie-Mellon University (1987 – 1988). He was also an Assistant, Associate, and Full Professor at Texas A&M University (1989 – 2004). During this time he served as a AFOSR Summer Fellow (1998, 2000) and as a National Research Council Fellow (2001, 2002, 2003) at Wright-Patterson Air Force Laboratory. He has been in his current position of Magnavox Endowed Professor at the University of Tennessee, Knoxville since 2004. Dr. Kihm has received numerous awards for both his teaching and research.

Date: Thursday, November 30, 2006

Time: 3:30 pm to 4:30 pm (refreshments 3:00 pm)

Place: 323 CRMS Bldg.

Point of Contact: Dr. M. Pinar Menguc 7-6336 Ext. 80658

Meet the speaker and have refreshments
Attendance open to all interested persons



MECHANICAL ENGINEERING DEPARTMENT
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY