DEPARTMENT OF MECHANICAL ENGINEERING WILLIAM MAXWELL REED SEMINAR SERIES

"Recent Advances in Cooling Technology"

Sung Jin Kim, Ph.D.
Korea Advanced Institute of Science and Technology

Abstract: The development of cooling technology has been an important element in the successful development of industrial and commercial systems for more than 50 years. This has been especially true during the past decades as electronic components have shrunk while increasing in performance, and industrial processes have grown to require ever better cooling performance. Today cooling is viewed as a bottleneck technology necessary to the successful development of future electronic systems.

This talk is intended to provide a perspective and review of the state-of-the-art cooling and thermal management technology used by important industrial and commercial systems. Some of the latest cooling technology utilizing air, water, or direct liquid immersion will be discussed along with research activities in the Applied Heat Transfer Lab at KAIST.

Bio: Dr. Sung Jin Kim is a Professor in the Department of Mechanical Engineering at the Korea Advanced Institute of Science and Technology (KAIST). He received a Ph.D. degree in Mechanical Engineering from the Ohio State University in 1989. Until joining KAIST in July 1997, he was a group leader of Thermal Engineering Center at the IBM Tucson Laboratory for 8 years. His research group at KAIST held National Research Lab status for 5 years from 2006. Recently, he was awarded a prestigious 9-year grant by Korea's Creative Research Initiative to develop Flexible and Thin Thermal Superconductors.

He is a member of Korean Academy of Science and Technology, a member of National Engineering Academy of Korea, and an ASME Fellow. He has received Medal of Honor for Scientists from Korean Government, Scientific Achievement Award from KSME, Excellent Teaching Awards from KAIST, two Invention Achievement Awards and five Author Recognition Awards from IBM. He is currently serving as the President of Asian Union of Thermal Science and Engineering.

Date: Friday, January 11th Time: 3PM

Place: CB 118 Contact: Dr. Alexandre Martin 257-4462

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

