

**THE UNIVERSITY OF IOWA
COLLEGE OF ENGINEERING
2004-2005 LECTURES COMMITTEE REPORT
May 9, 2005**

Lectures Committee: David Wilder, associate professor of biomedical engineering, chair; Fred Streicher, College of Engineering director of marketing and communications, ex-officio member

Caterpillar Colloquium Series

The Caterpillar Foundation (Peoria, IL) was not able to provide financial support of the Caterpillar Colloquium Series in time for the 2004-2005 Academic Year. The six undergraduate programs used funds where balances remained to support key seminars. The Caterpillar Foundation has committed to continued funding and has indicated that the funds should arrive within the next few weeks for use during the 2005-2006 Academic Year.

Lectures held include:

Peter F. Green, B. F. Goodrich Endowed Professor in Materials Engineering, Department of Chemical Engineering and Texas Materials Institute, The University of Texas at Austin, presented September 9 on "Thin Polymer Films at the Nanoscale."

Dr. Richard Ehman of the Mayo Clinic Department of Radiology presented February 24 on "Magnetic Resonance Elastography by Direct Visualization of Propagating Acoustic Shear Waves."

Iowa Distinguished Faculty Lectures in Engineering

This exchange program enables faculty research award recipients from both Colleges of Engineering at the UI and ISU to visit Ames and Iowa City to enhance collaboration and share knowledge with undergraduate students and faculty.

The 2004-2005 recipients of research awards were:

Iowa State University

John Tannehill, professor of aerospace engineering, presented the Iowa Distinguished Faculty Lecture in Engineering Seminar April 14 in Iowa City, titled "Numerical Simulation of Supersonic Magnetohydrodynamic Flowfields,"

The University of Iowa

Alec Scranton, professor of chemical and biochemical engineering, associate dean for academic programs, and director of the UICRC Photopolymerizations Center, presented the Iowa Distinguished Faculty Lecture in Engineering Seminar January 28, 2005, in Ames, IA, on "Photopolymerizations."

Other Notable College-wide Seminars

James S. Thorp, Hugh P. and Ethel C. Kelly Professor and head of the Bradley Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University, presented the annual Kurtz Lecture September 24, 2005, on "Blackouts,"

Ted Kubit, manager of business process design and enterprise resource planning implementations for Accenture, presented September 23, 2005, on how Accenture serves global clients.

Gary Rystrom, seven-time Oscar winner for best sound and best sound editing, presented October 7, 2005.

Dr. Kwan Rim, University of Iowa professor of biomedical engineering and chairman of the Samsung Advanced Institute of Technology, presented November 10, 2004, on "Technological Innovation and International Cooperation: Challenges for Industry."

Dr. Gil Masters, emeritus professor of civil and environmental engineering at Stanford University, presented December 2, 2004, on "Energy Efficient Buildings: The Key to Our Climate Future."

Tau Beta Pi organized the Paul D. Scholz Symposium on Technology and its Role in Society April 7, 2005. "Virtual Reality in the Real World" was the subject. Speakers included: Rob Vail, senior research and development engineer at Caterpillar, Inc., Dr. Matthew A. Howard III, professor and head of the Department of Neurosurgery in the UI Roy J. and Lucille A. Carver College of Medicine, and Tim Etherington, principal systems engineer and technical director of the Advanced Technology Center at Rockwell Collins Inc. in Cedar Rapids, Iowa.

Doug Schenk, director of John Deere's Global 5000 Tractor Business, presented April 28, 2005, on "Globalization: Its Impact on the World and You."