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The Keck Institute for Space Studies and
JPL Office of Chief Scientist and Chief Technologist
present a public lecture on

Photons to Bits and Beyond: The Science and Technology of Digital Image Sensors

Professor Eric Fossum
Dartmouth College

Dr. Eric R. Fossum is Professor of Engineering in Dartmouth's Thayer School of Engineering and a consultant to Samsung Electronics Semiconductor R&D Center. One of the world's leading solid-state image sensor device physicists, he has more than 135 US patents to his name. He is best known for inventing the CMOS image sensor. Today, his "camera-on-a-chip" technology is used in nearly all camera phones and webcams, digital-still cameras, high-speed motion capture cameras, automotive cameras, dental x-ray cameras, and swallowable pill cameras. This year he was inducted to the National Inventor's Hall of Fame.

Friday, November 11, 2011

5:00 - 6:00 pm

Hameetman Auditorium
Cahill Building

California Institute of Technology

Digital cameras are now small and everywhere, from cell phones to iPads to webcams to pill cameras to automobiles to digital SLRs to Mars Rovers. The images from these cameras shape our culture on a daily basis, from Facebook and Skype to unforgettable images of the Japanese tsunami and the Arab Spring. This presentation will address the science and engineering technology behind capturing these images, as well as a brief history of how this technology transferred from the lab at JPL into your cell phone. Future technology directions including the Quanta Image Sensor (QIS) will be discussed.

No registration is required.

Seating is limited and is available on a first come, first served basis.
This lecture will be videotaped.