

**Department of Engineering
Wednesday, April 10, 2013
Galileo McAlister, 4:15pm**

Integrated Circuit Design and Product Manufacturing

Karl Wang, Laspa Professor of Electrical Engineering Practice

The IC industry will top 300 billion dollar in 2013 growing at annual rate of 7%. This seminar will focus on the Integrated Circuit design and Product Development process that enables this rapid market growth. The seminar will give top views of IC product markets, roles of intellectual property (IP) and patent in IC industry, design of system-on-chip (SOC) products, VLSI technologies, and IC manufacturing. Experience in VLSI product designs and development from top tier companies as well as startup will be shared. Insights will be offered on what a starting professional can expect and how to develop a successful career in the IC industry.

Bio: Dr. Karl Wang is the Laspa Professor of Electrical Engineering Practice of in the Department of Engineering at Harvey Mudd College. He joined the department as a Visiting Professor in 2011 after working in the industry for more than 30 years. While in the industry, he designed and developed memories, microprocessor, and multimedia SOCs products at Texas Instruments, Motorola, Hitachi, and ARM. He was the VP of Research and Development at Silicon Motion Inc. in Multimedia Products before began teaching at Harvey Mudd College. He has published 22 technical papers and holds 19 US patents and a Ph.D. degree in Electrical Engineering from M.I.T.