Industry View of Semiconductor Manufacturing Process

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ABSTRACT
Since the invention of integrated circuit in 1949, the hugely successful industry has grew to be a $300b annual business with hundreds of manufactures with thousands of technical staff. However, the relentless pursuit of shrinking geometry, reduced cost, and increasing functionality has observed by Moore has constantly faced challenges from all angles. This seminar explores some of the technical and economic constraints governing the progress of technology.

BIOGRAPHY
I-Cheng Chen has been with ATI Technologies Inc since 1997, and then with Advanced Micro Devices Inc since its acquisition of ATI in 2006. I-Cheng was hired by ATI to drive its engineering programs in the notebook GPU industry, which was in its infancy at the time. I-Cheng took on the role of Engineering Director of Notebook GPUs in 2005, overseeing the development of GPUs for notebook PCs, for which ATI/AMD has over 60% market share. In 2012, I-Cheng took on the role of Fellow - Platform Architecture, continue to drive AMD’s portable compute and graphics platform technology. I-Cheng has a B.Sc. and M.Sc. from Queen's University, Kingston, specializing in computer communications and microprocessor controlled systems; and worked at Daimler Benz and Honeywell on large scale automated industrial control systems, prior to ATI.