

演講題目: Moore's Law and TSMC

曹敏

Research and Development, TSMC

時間: 2014年4月11日(星期五) 14:20

地點: 台達館215

ABSTRACT:

Moore's Law has been the constant driving force for the semiconductor industry for almost 50 years. The pace and duration of advancement of semiconductor technology is unprecedented in human history.

Underpinned by technological innovations, the semiconductor industry has enabled countless new industries and experienced unprecedented growth. It has now passed \$320 billion in annual revenue, and has become the foundation of an almost 2 trillion dollar electronics industry.

TSMC was founded in 1987 as the first pure play foundry in the world. The fabless/foundry business model is proven highly successful.

Numerous fabless semiconductor companies were created, driving a new wave of innovations in the semiconductor industry. Today TSMC is the biggest foundry in the world by a wide margin and the 3rd largest semiconductor company with \$20 billion in annual revenue in 2013. In 1987, TSMC was ~5 years behind technology leaders, but today TSMC is at the forefront of Moore's Law. Although no exponential is forever, TSMC will be able to drive Moore's Law further due to its superior business model. Semiconductor will continue to have a very important role for the foreseeable future even after Moore's Law.

曾孝明 教授

Ext. 62183