

# Keynote Speech I

## Trend of Semiconductor Industry and IEM Opportunities



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### Abstract

Semiconductor technology and devices are considered as lifeblood of many fundamental technology advancement in recent decades. The semiconductor industry is recognized as a key driver for economic growth in its role as lever and enabler in the whole electronics value chain. The fast-paced change and innovation requirements coupled with potential financial returns attract many talented people to participate in the development of this industry. This talk will discuss various facets of the trend of semiconductor industry such as market and applications, top players/leaders in the industry, technology, manufacturing strategy, capacity and supply chain, and business models along with new challenges. It is observed that Asia will continuously be a major center of the growth and excitement of semiconductor industry. From the eyes of a seasoned industrial engineering practitioner and entrepreneur in semiconductor industry, opportunities for people with background in industrial engineering and management to join the journey of semiconductor industry will be addressed.

### Brief Bio

**Dr. Chi-Ming Chang** is Co-Founder and President of Ardentec Corporation in Taiwan, R.O.C. (2008 to present). He was the founding chairman of Ardentec Singapore (2006 – 2011) and founding representative director of Ardentec Korea (2010 – 2011). Prior to co-founding Ardentec Corporation in 1999, he was with Vanguard International Semiconductor Corporation, as a division director responsible for product manufacturing engineering and then for operations planning and control, and was with ERSO/ITRI as a deputy division director for R&D wafer fab operations management. Before joining ERSO/ITRI in Taiwan in 1990, he was an assistant professor at Louisiana Tech University. Dr. Chang received Outstanding Award in Technology Programs by Ministry of Economic Affairs of R.O.C. in 1995, Distinguished Engineer Award by Texas Tech University in 2009, the Industrial Engineering Medal by Chinese Institute of Industrial Engineers (Taiwan) in 2009 and Fellow honor in 2012. Dr. Chang also received Golden Merchant Award from the General Chamber of Commerce of R.O.C. in 2011.