Invited Talk 3
MTDT 2009

Recent Progress on Nonvolatile Memory Research
and 3D Integration at ITRI EOL

Prof. Sheng-fu Horng
EOL/ITRI, Taiwan / National Tsing Hua University, Taiwan

Abstract
Next-generation nonvolatile memories and three-dimensional integrated circuits (3DIC) have been the research focus of Electronics and Optoelectronics Research Laboratories at Industrial Technology Research Institute. The planning and some recent progress of nonvolatile memory research, particularly on RRAM and 3DIC at ITRI EOL will be briefly reviewed.

Biography
Sheng-fu Horng was born in Kaohsiung, Taiwan in 1961. He received the B. S. degree in Electrical Engineering from National Taiwan University in 1983, and the M. S. and Ph.D. degrees in Electrical Engineering from Princeton University in 1988 and 1992, respectively. He joined the Department of Electrical Engineering at National Tsing-Hua University since 1992. His current research interest include the growth, physics, and applications of low-dimensional semiconductor structures, the terahertz generation and ultrafast optoelectronic devices, the transport and dynamics of carriers in semiconductors, and conjugated polymer semiconductors.