



## **Materials and Processes for Crosspoint Emerging Memory** **WANGEE KIM, Applied Materials**

Emerging memory devices such as PcRAM and ReRAM have been in the spotlight and actively researched as the product for the existing memory replacement or new marketing creation. And it is believed that multi-cell stackable cross point array is the most appropriate structure to realize emerging memory devices with high cell density. In this section, key concepts about the material selection and process integration for the cross point emerging memory are shared and key process steps using AMAT tools are demonstrated.