

The 21<sup>st</sup> Korean Conference on Semiconductors  
**제21회 한국반도체학술대회**  
February 24–26, 2014 / Hanyang University, Seoul, Korea

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D. Thin Film Process Technology 분과

**[WE2-D] Memory Thin-Film Technologies**

<b>Date</b>	Feb. 26, 2014 (Wed.)
<b>Place</b>	Room E / 제1공학관 403호 (# 403, Engineering Building I)

Session Chair: 민요셉 교수(건국대학교), 전상훈 교수(고려대학교)

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- WE2-D-1 13:05-13:20 Evolution of Phases and Ferroelectric Properties of Thin  $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$  Films According to the Thickness and Annealing Temperature**  
저자: Min Hyuk Park, Han Joon Kim, Yu Jin Kim, Woongkyu Lee, Taehwan Moon, and Cheol Seong Hwang  
소속: Department of Material Science & Engineering and Inter-university Semiconductor Research Center, Seoul National University
- WE2-D-2 13:20-13:35 A New Chemical Route for Vapor Phase Deposition of GeTe for Phase Change Memory**  
저자: Taehong Gwon<sup>1</sup>, Taeyong Eom<sup>1</sup>, Sijung Yoo<sup>1</sup>, Moo-Sung Kim<sup>2</sup>, Iain Buchanan<sup>3</sup>, Manchao Xiao<sup>3</sup>, and Cheol Seong Hwang<sup>1</sup>  
소속: <sup>1</sup>Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University, <sup>2</sup>Air Products Korea, <sup>3</sup>Air Products and Chemicals, Inc.,
- WE2-D-3 13:35-13:50 Kinetic Analysis of Atomic Layer Deposition Process of  $(\text{GeTe}_2)_{(1-x)}(\text{Sb}_2\text{Te}_3)_x$  Layers for Phase Change Memories**  
저자: Taeyong Eom<sup>1</sup>, Taehong Gwon<sup>1</sup>, Sijung Yoo<sup>1</sup>, Moo-Sung Kim<sup>2</sup>, Iain Buchanan<sup>3</sup>, Manchao Xiao<sup>3</sup>, and Cheol Seong Hwang<sup>1</sup>  
소속: <sup>1</sup>Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University, <sup>2</sup>Air Products Korea, <sup>3</sup>Air Products and Chemicals, Inc.,
- WE2-D-4 13:50-14:05 Evaluating the Change in Electrical Conduction Mechanism and Dielectric Properties of  $\text{TiO}_2$  Thin-Film by Al Doping**  
저자: Woojin Jeon, Woongkyu Lee, Yeon Woo Yoo, Cheol Hyun An, and Cheol Seong Hwang  
소속: Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University,
- WE2-D-5 14:05-14:20 An Investigation of Electrical Characteristics in  $\text{TiO}_x$  Thin Film by Controlling Oxygen Vacancy**  
저자: Jaesung Park, Daeseok Lee, Jiyong Woo, Euijun Cha, Sangheon Lee, Kibong Moon, Yunmo Koo, Jeonghwan Song, and Hyunsang Hwang  
소속: Department of Materials and Science Engineering, Pohang University of Science and Technology