

## F. Silicon and Group-IV Devices and Integration Technology 분과

2017년 2월 15일 (수), 08:30-10:00

Room E (루비, 2층)

### [WE1-F] Advanced CMOS Processing and Reliability

좌장: 신창환(서울시립대학교), 김춘환(SK 하이닉스)

<b>WE1-F-1</b> <b>08:30-08:45</b>	<b>Improvement of TDDB in 28nm Logic NFET Transistor by the Surface Oxidation of eWF Metal</b> Seung Wook Ryu, Young Tae Yoo, Sung Hun Son, Hun Sung Lee, Tae Yong Park, Seon Haeng Lee, Sang-wan Jin, Moon Sig Joo, Seung Woo Jin, and Choon Hwan Kim <i>SK Hynix Inc.</i>
<b>WE1-F-2</b> <b>08:45-09:00</b>	<b>Substrate and Layout Engineering to Suppress Self-Heating</b> SangHoon Shin <sup>1</sup> , SangHyeon Kim <sup>2</sup> , Seongkwang Kim <sup>2</sup> , Heng Wu <sup>1</sup> , P. D. Ye <sup>1</sup> , and M. A. Alam <sup>1</sup> <i><sup>1</sup>Department of ECE, Purdue University, <sup>2</sup>Korea Institute of Science and Technology</i>
<b>WE1-F-3</b> <b>09:00-09:15</b>	<b>The Interaction of Fin Edge Roughness and Side Wall Roughness and Its Impacts on FinFET</b> Sangheon Oh and Changhwan Shin <i>Department of Electrical and Computer Engineering, University of Seoul</i>
<b>WE1-F-4</b> <b>09:15-09:30</b>	<b>Effect of Process Induced Damage of Porous Low-k SiOCH Films on RVST and TDDB Performance of Logic BEOL Modules</b> Sang-wan Jin, Tae Yeon Jung, Hyo Seok Lee, Hyunah Lee, Chai O Chung, In Cheol Ryu, Seong Wook Ryu, Jung Hyuk Kim, Seung Woo Jin, and Choon Hwan Kim <i>SK Hynix Inc.</i>
<b>WE1-F-5</b> <b>09:30-09:45</b>	<b>Novel Method to Form Thin Silicon Channel on Bulk Silicon Substrate for Low-Cost Tunnel Field Effect Transistor Fabrication</b> Junil Lee, Dae Woong Kwon, Euyhwan Park, Sihyun Kim, Ryoongbin Lee, Taehyung Park, Hyun-Min Kim, Kitae Lee, and Byung-Gook Park <i>Inter-University Semiconductor Research Center (ISRC), Seoul National University, Department of Electrical and Computer Engineering(ECE), Seoul National University</i>
<b>WE1-F-6</b> <b>09:45-10:00</b>	<b>Laser Spike Anneal Impact on Bias Temperature Instability for 28nm Replacement Metal Gate CMOS</b> Seon Haeng Lee, Myung Hee Nam, Yu Jun Lee, Seong Jun Lee, Hei Mi Kwon, Sang Eun You, Seung Wook Ryu, Jeong Soo Park, and Joong Smith Jeon <i>SK Hynix Inc.</i>