

IEEE EDS Kansai Chapter

第6回関西コロキアム・電子デバイスワークショップ・プログラム

2006年10月18日

大阪大学中之島センター

10F 佐治敬三メモリアルホール

開会挨拶

[10:00 – 10:10]

谷口研二(大阪大学)

セッション IA. Silicon Materials and Device Technology [10:00 – 12:00]

座長：大村泰久（関西大学）

[10:10-10:50]

[Chapter of the year 2006 記念講演]

#0 Fluorine Incorporation into HfSiON Dielectric for V_{th} Control and Its Impact on Reliability for Poly-Si Gate pFET

Masahiro Yoneda, M. Inoue, S. Tsujikawa, M. Mizutani, K. Nomura, T. Hayashi, K. Shiga, J. Yugami, J. Tsuchimoto, and Y. Ohno
(Renesas Technology)

[10:50-11:10]

#1 Study of Effects of Metal Layer on Hydrogen Desorption from Hydrogenated Amorphous Silicon Using Temperature-Programmed Desorption.

Y. Hamaoka, Hiromasa Ohmi, H. Kakiuchi and K. Yasutake

(Dept. of Precision Science and Technology, Graduate School of Eng., Osaka University)

[11:10-11:30]

#2 Impact of Body Bias Controlling in Partially Depleted SOI Devices with Hybrid Trench Isolation Technology

Toshiaki Iwamatsu, M. Tsujiuchi, Y. Hirano, T. Ikeda, F. Komatsu, T. Ipposhi, S. Maegawa and Y. Ohji
(Renesas Technology)

—昼食 [11:30 – 13:10]—

セッション IB. Silicon Materials and Device Technology [13:10 – 13:50]

座長：渡辺博文 ((株)リコー)

[13:10-13:30]

#3 Active Body-Biasing Control Technique for Bootstrap Pass-Transistor Logic on PD-SOI at 0.5V-V_{DD}

Masaaki Iijima, M. Kitamura, K. Hamada, K. Fukuoka, M. Numa, A. Tada*, S. Maegawa*
(Kobe University, *Renesas Technology)

[13:30-13:50]

#4 Study of Factors Effecting Electron Tunneling Mechanism in Si Nanocrystals Floating Gate Memories

Prakaipetch Punchaipetch, K. Ichikawa, H. Yano, T. Hatayama, Y. Uraoka, T. Fuyuki, E. Takahashi, T. Hayashi, and K. Ogata

(Nara Institute of Science and Technology, Nissin Electric Co. Ltd)

—休憩 [13:50 – 14:00]—

セッション II. Compound Semiconductor Device Technology [14:00 – 14:40]

座長：松尾直人（兵庫県立大学）

[14:00-14:20]

#1 High Transconductance of 2.25 S/mm Observed at 16 K for 195-nm-Gate In_{0.75}Ga_{0.25}AsIn_{0.52}/Al_{0.48}As HEMT Fabricated on [411]-Oriented InP Substrate

Issei Watanabe, K. Shinohara, T. Kitada, S. Shimomura, Y. Yamashita, A. Endoh, T. Mimura, T. Matsui, S. Hiyamizu
(Osaka University)

[14:20-14:40]

#2 Source Resistance Reduction of AlGaN-GaN HFEts with Novel Superlattice Cap Layer

Tomohiro Murata, Hikita, Y. Hirose, Y. Uemoto, K. Inoue, T. Tanaka, D. Ueda

(Matsushita Electric Industry Co.)

—休憩 [14:40 – 14:50]—

セッショ n III. Emerging Technology [14:50 – 16:35]

座長：小瀧浩（シャープ）

[14:50-15:10]

#1 Direct Ultrasensitive DNA Sensors Based on Carbon Nanotube Field-Effect Transistors

Kenzo Maehashi, K. Matsumoto, K. Kerman, Y. Takamura and E. Tamiya

(Osaka University, JAIST)

[15:10-15:30]

#2 Spintronics Based on ZnO Thin Films

Hitoshi Tabata, H. Saeki and H. Matui

(The Institute of Scientific and Industrial Research, Osaka University)

[15:30-15:50]

#3 Improvements in the Characteristics of Blue Polymer Light-emitting Diodes by Polymer Hole Transport Layer

Jian Li, T. Sano, Y. Hirayama, T. Tomita, H. Fujii, and K. Wakisaka

(SANYO Electric Co., Ltd.)

[15:50-16:10]

#4 Control of Spectral Photosensitivity in Stacked Color Sensors: Proposal and Theoretical Analysis

Noriyuki Kakimoto and Takahiro Numai

(Graduate School of Science and Engineering, Ritsumeikan University)

[16:15-17:00]

AWARD 授与

—閉会—

谷口研二(大阪大学)