

Opening & Plenary Sessions (WINC HALL)

Opening Session

Chair: M. Hori, Nagoya Univ.

9:30

Welcome Address

S. Zaima, Nagoya Univ.

Non-Technical Plenary Session

Chair: T. Fukui, Hokkaido Univ.

9:40 PL-1-1

Social Contribution and Next Giant Leap of Semiconductors M. Fukuma, Semiconductor Industry Research Institute Japan, Japan

SSDM Award / Paper Award Presentation

S. Zaima, Nagoya Univ.

Technical Plenary Sessions

Chair: T. Fukui, Hokkaido Univ.

10:45 PL-2-1

A Car Guy's Expectations for Electronics M. Yoshida, Toyota Motor Corporation, Japan

11:30 PL-2-2

Electronics Proliferation through Diversification.

Tsu-Jae King Liu, University of California at Berkeley, USA

12:15-13:30 Lunch

5F Hall 1	5F Hall 2	10F 1002	10F 1003	11F 1101	11F 1102	11F 1103
A-1: GaN FET Technologies (Area 6) (13:30-15:15) Chairs: T. Tanaka (Panasonic Corp.) S. Tanaka (Shibaura Institute of Tech.)	BL-1: Organic Photovoltaics (1) (Area 10&14) (13:30-15:15) Chairs: A. Masuda (AIST) E. Itoh (Shinshu Univ.)	B-1: OLEDs (Area 10) (13:30-15:15) Chairs: K. Takimoto (Canon Inc.) T. Lee (GIST)	C-1: Future Interconnect (Area 2) (13:30-15:15) Chairs: S. Ogawa (AIST) M. Sato (AIST)	D-1: Modeling and Circuits (Area 3) (13:30-15:10) Chairs: E. Yoshida (Fujitsu Semiconductor Ltd.) N. Mori (Osaka Univ.)	E-1: Ge-MOS (Area 1) (13:30-15:20) Chairs: T. Nabatame (NIMS) B. H. Lee (GIST)	F-1: STT-RAM (Area 4) (13:30-15:00) Chairs: G. H. Koh (Samsung Electronics Co., Ltd) S. Miura (NEC Corp.)
13:30 A-1-1 (Invited) InAlN/GaN HEMTs: Recent Progress and Challenges for the Future J. Kuzmík ^{1,2} , Slovak Academy of Sciences and ² TU Vienna (Slovakia)	13:30 BL-1-1 Determination of Carrier Lifetime in Bulk-heterojunction Solar Cells by Continuous-wave Photoinduced Absorption Spectroscopy Y. Terada ¹ , W. Shinke ¹ , T. Kobayashi ¹ , T. Nagase ¹ and H. Naito ^{1,2,*} , Osaka Prefecture Univ. and ² CREST-JST (Japan)	13:30 B-1-1 Solution-processed small molecular phosphorescent organic light emitting devices with a mixed single layer Z. Wang, S. Naka and H. Okada, Univ. of Toyama (Japan)	13:30 C-1-1 (Invited) TSV and Cu-Cu direct bonding: two key technologies for High Density 3D N. Sillion, H. Ben Jemaâa, P. Leduc, L. Di Cioccio, S. Cheramy and T. Signamarcheix, CEA-Leti, Minatec campus (France)	13:30 D-1-1 Simple and Efficient MASTAR Threshold Voltage and Subthreshold Slope Models for Double Gate Structures J. Lacord ^{1,2} , J. L. Huguenin ^{1,2} , G. Ghibaudo ¹ , T. Skotnicki ¹ and F. Boeuf ¹ , STMicroelectronics and ² IMEP-LAHC (France)	13:30 E-1-1 (Invited) Investigation of the Electrical Properties of Ge/High-k Gate Stack: GeO₂ VS Si-cap J. Mitard, F. Bellenger, L. Witters, B. De Jaeger, B. Vincent, L. Nyns, K. Martens, E. Vrancken, G. Wang, D. Lin, R. Loo, M. Caymax, K. De Meyer, M. Heyns and N. Horiguchi, IMEC (Belgium)	13:30 F-1-1 (Invited) Magnetoresistive Random Access Memory with Spin Transfer Torque Write (Spin RAM) -Present and Future- H. Ohno, Tohoku Univ. (Japan)
14:00 A-1-2 High-Power and High-Gain S-band AlGaN/GaN HFETs with Source Field Plates on Si Substrate S. Nakazawa, N. Tsurumi, M. Nishijima, Y. Ando, M. Ishida, T. Ueda and T. Tanaka, Panasonic Corp. (Japan)	13:45 BL-1-2 Analysis of anomalous discharging processes in pentacene/C₆₀ double-layer organic solar cell X. Chen, D. Taguchi, K. Lee, T. Manaka and M. Iwamoto, Tokyo Tech (Japan)	13:45 B-1-2 Hole Injection Enhancement in Organic Light-emitting Diodes by Introducing an Au Nanoparticle Layer D. Wang and K. Fujita, Kyushu Univ. (Japan)	14:00 C-1-2 Fabrication of Graphene Directly on SiO₂ without Transfer Processes by Annealing Sputtered Amorphous Carbon M. Sato ¹ , M. Inukai ² , E. Ikenaga ² , T. Muro ² , S. Ogawa ³ , Y. Takakuya ³ , H. Nakano ¹ , A. Kawabata ¹ , M. Nihei ¹ and N. Yokoyama ¹ , ¹ AIST/GNC, ² JASRI/SPring-8 and ³ Tohoku Univ. (Japan)	13:50 D-1-2 Accurate and Ready-to-use Parasitic Capacitances Models for Advanced 2D/3D CMOS Device Structure Comparison J. Lacord ^{1,2} , D. Hoguet ¹ , D. Rideau ¹ , G. Ghibaudo ² and F. Boeuf ¹ , STMicroelectronics and ² IMEP-LAHC (France)	14:00 E-1-2 1.2 nm-EOT Al₂O₃/Ge Gate Stack with GeO_x-free Interface T. Tabata ^{1,2} , C. H. Lee ^{1,2} , T. Nishimura ^{1,2} , S. K. Wang ^{1,2} , K. Kita ^{1,2} and A. Toriumi ^{1,2} , ¹ Univ. of Tokyo and ² CREST-JST (Japan)	14:00 F-1-2 Studies on Static Noise Margin and Scalability for Low-Power and High-Density Nonvolatile SRAM using Spin-Transfer-Torque (STT) MTJs T. Ohswara, F. Iga, S. Ikeda, T. Hanyu, H. Ohno and T. Endoh, Tohoku Univ. (Japan)
14:15 A-1-3 RF power characteristics of high-thermal-efficiency AlGaN/GaN HEMTs on diamond K. Hirama, M. Kasu and Y. Taniyasu, NTT Basic Res. Labs. NTT Corp. (Japan)	14:00 BL-1-3 Probing electric field distribution of P3HT in ITO/PI/P3HT/Au by using EFISHG measurement R. Miyazawa, D. Taguchi, T. Manaka and M. Iwamoto, Tokyo Tech (Japan)	14:00 B-1-3 Improvement on Electroluminescence of Red Organic Light Emitting Diode by Doping with Sensitizers S. H. Yang, C. H. Chuang, S. C. Huang and P. J. Shih, National Kaohsiung Univ. of Applied Sciences (Taiwan)	14:20 C-1-3 Initial Growth Observation of Multilayer Graphene on SiO₂/Si substrates Using Raman Spectroscopy and XPS Y. Ojiro ¹ , S. Ogawa ¹ , M. Inukai ² , M. Sato ^{1,3} , E. Ikenaga ² , T. Muro ² , M. Nihei ¹ , Y. Takakuya ¹ and N. Yokoyama ¹ , ¹ Tohoku Univ., ² JASRI/SPring-8 and ³ AIST/GNC (Japan)	14:10 D-1-3 An Accurate Prediction Model of Temperature Dependent Current Mismatch in All Inversion and Influence of Sub-threshold Hump on Mismatch Characteristics K. Sakakibara and K. Arimoto, Renesas Electronics Corp. (Japan)	14:20 E-1-3 Effective Passivation of Interface Dipole in Ti-Gate Ge-MOS Capacitor with Ultrathin SiO₂/GeO₂ Bilayer by Nitrogen Incorporation K. Sakamoto, Y. Iwamura, K. Yamamoto, H. Yang, D. Wang and H. Nakashima, Kyushu Univ. (Japan)	14:20 F-1-3 A Study for Adopting PMOS Memory Cell for 1T1R STT-RAM with Asymmetric Switching Current MTJ H. Koike and T. Endoh, Tohoku Univ. (Japan)

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11:30 PL-2-2

Electronics Proliferation through Diversification.
Tsu-Jae King Liu, University of California at Berkeley, USA

12:15-13:30 Lunch

11F 1104	11F 1107	12F 1201	12F 1202	12F 1203	12F 1204	12F 1207	12F 1208
GH-1: Image Sensor and MEMS Technology (1) (Area 5&11) (13:30-15:10) Chairs: S. Sugawa (Tohoku Univ.) T. Tokuda (NAIST)		I-1: Optical Link and Related Devices (Area 7) (13:30-15:15) Chairs: Y. Ishikawa (Univ. of Tokyo) N. Iizuka (Toshiba Corp.)		K-1: CNT Property (Area 13) (13:30-15:15) Chairs: S. Akita (Osaka Prefecture Univ.) Y. Ohno (Nagoya Univ.)	L-1: Quantum Well& III-V Solar Cell (Area 14) (13:30-15:15) Chairs: F. Finger (FZ Jülich) N. Kojima (Toyota Technological Inst.)	M-1: Nitrides (Area 8) (13:30-15:15) Chairs: T. Nagata (NIMS) K. Hara (Shizuoka Univ.)	
13:30 GH-1-1 (Invited) High Speed Vision for Gesture UI, Dynamic Image Control and Visual Feedback M. Ishikawa, Univ. of Tokyo (Japan)		13:30 I-1-1 (Invited) Lens-integrated surface-emitting DFB laser arrays for short-reach optical links K. Adachi ^{1,2} , K. Shinoda ^{1,2} , T. Kitatani ^{1,2} , Y. Matsuoka ¹ , T. Sugawara ¹ and S. Tsuji ^{1,2} , ¹ Hitachi Ltd. and ² PETRA (Japan)	13:30 K-1-1 (Invited) Carbon Nanotube Clamped Metal Atomic Chain: Fabrication, Structure and Property D. M. Tang, L. C. Yin, C. Liu and H. M. Cheng, Chinese Academy of Sciences (China)	13:30 L-1-1 (Invited) Quantum Well Solar Cells (UK)		13:30 M-1-1 (Invited) Progress in Nonpolar and Semipolar GaN-base Materials and Devices J.S. Speck, Univ. of California, Santa Barbara (USA)	
14:00 GH-1-2 A 2-D Optical Pulse Receiver/ Imager with Two-Port Pixels for Simultaneously Producing Image and Communication Signals S. Kawahito ¹ , S. Itoh ¹ , Y. Iwama ¹ , I. Takai ¹ , M. Andoh ² , K. Yasutomi ¹ and K. Kagawa ¹ , ¹ Shizuoka Univ. and ² Toyota Central R&D Labs, Inc. (Japan)		14:00 I-1-2 Performance of Low-Loss and Low-Cost Optoelectronic Module with Polynorbornene Waveguide for 10-Gbps Data Transmission. Y. Ito ¹ , S. Terada ¹ , S. Arai ¹ , M. Fujiwara ¹ , T. Mori ¹ , K. Choki ¹ , T. Fukushima ² and M. Koyanagi ² , ¹ Sumitomo Bakelite Co., Ltd. and ² Tohoku Univ. (Japan)	14:00 K-1-2 Fabrication of Carbon Nanowalls on Carbon Fiber Paper S. Mitsuguchi ¹ , M. Hiramatsu ¹ , H. Kondo ² , M. Horii ² and H. Kano ³ , ¹ Meijo Univ., ² Nagoya Univ. and ³ NU Eco Eng. Co., LTD. (Japan)	14:00 L-1-2 Non-Radiative Carrier Recombination in the Strain-Balanced InGaAs/GaAsP Multiple Quantum Wells for Solar Cell Application T. Aihara ¹ , Y. Nakano ¹ , A. Fukuyama ¹ , Y. Wang ¹ , M. Sugiyama ² , Y. Nakano ² and T. Ikari ¹ , ¹ Univ. of Miyazaki and ² Univ. of Tokyo (Japan)	14:00 M-1-2 Tilted domain and indium content of MOVPE-grown InGaN layer on m-plane GaN substrate K. Shojiki ¹ , T. Hanada ^{1,2} , T. Shimada ¹ , Y. Liu ^{1,2} , R. Katayama ^{1,2} and T. Matsuoka ^{1,2} , ¹ Tohoku Univ. and ² CREST-JST (Japan)		
14:20 GH-1-3 Improved Near-Infrared Sensitivity for a Side-Illuminated Photo Sensor T. Ariyoshi, N. Uryu, A. Baba and Y. Arima, Kyushu Inst. of Tech. (Japan)		14:15 I-1-3 Low Voltage InGaAs/InAlAs Quantum Well Mach-Zehnder Modulator with Single Microring Resonator H. Kaneshige, Y. Ueyama, H. Yamada, T. Arakawa and Y. Kokubun, Yokohama National Univ. (Japan)	14:15 K-1-3 Alignment of Carbon Nanotubes on Sapphire Surfaces with Strong Interactions S. Jeong ¹ and A. Oshiyama ² , ¹ Chonbuk Nat. Univ. and ² Univ. of Tokyo (Korea)	14:15 L-1-3 Kinetics of strain relaxation in lattice-mismatched III-V heteroepitaxy T. Sasaki ¹ , K. Shimomura ¹ , H. Suzuki ² , M. Takahashi ¹ , J. Kamiya ¹ , Y. Ohshima ¹ and M. Yamaguchi ¹ , ¹ Toyota Tech. Inst., ² Univ. of Miyazaki and ³ JAEA (Japan)	14:15 M-1-3 Effect of Phase Purity on Dislocation Density of PR-MOVPE-Grown InN T. Iwabuchi ¹ , Y. Liu ^{1,2} , T. Kimura ^{1,2} , Y. Zhang ^{1,2} , K. Prasertskul ¹ , R. Katayama ^{1,2} and T. Matsuoka ^{1,2} , ¹ Tohoku Univ. and ² CREST-JST (Japan)		

Wednesday, September 28

5F Hall 1	5F Hall 2	10F 1002	10F 1003	11F 1101	11F 1102	11F 1103
A-1: GaN FET Technologies (Area 6)	BL-1: Organic Photovoltaics (1) (Area 10&14)	B-1: OLEDs (Area 10)	C-1: Future Interconnect (Area 2)	D-1: Modeling and Circuits (Area 3)	E-1: Ge-MOS (Area 1)	F-1: STT-RAM (Area 4)
14:30 A-1-4 Improvement of Current Collapse in Deeply Recessed Gate AlGaN/GaN High Electron Mobility Transistors without Field Modulating Structure <i>A. Imai, K. Yamanaka, Y. Suzuki, T. Nanjo, M. Saita, K. Shiozawa, Y. Abe, E. Yagyu and A. Shima, Mitsubishi Electric Corp. (Japan)</i>	14:15 BL-1-4 Designing of Organic Solar Cell Module for Obtaining Maximum Performance <i>H. Ogo, T. Miyadera, T. Taima, A. Masuda and Y. Yoshida¹, AIST (Japan)</i>	14:15 B-1-4 White Organic Light-Emitting Diodes Combining Blue Organic Light-Emitting Diodes with a Sr _x SiO ₃ :Eu ³⁺ Color Conversion Layer <i>S. H. Su, W. Y. Wang and M. Yokoyama, I-Shou Univ. (Taiwan)</i>	14:40 C-1-4 STC: Single-Tube Characterization Methodology for Experimental and Analytical Evaluation of Carbon Nanotube Synthesis <i>H. Y. Chen, A. Lim, L. S. Liyanage, C. Beasley, N. Patil, H. Wei, S. Mitra and H. S. P. Wong, Stanford Univ. (USA)</i>	14:30 D-1-4 A Stacked Inverter-based CMOS Power Amplifier in 65nm CMOS Process <i>H. Kiumarsi, Y. Mizuchi, H. Ito, N. Ishihara and K. Masu, Tokyo Tech (Japan)</i>	14:40 E-1-4 Defect Control in Germanium Oxide Film Thermally Grown on Germanium Substrate <i>Y. Oniki and T. Ueno, Tokyo Univ. of Agri. and Tech. (Japan)</i>	14:40 F-1-4 Novel 2step Writing Method for STT-RAM to Improve Switching Probability and Write Speed <i>F. Iga, Y. Suzuki, T. Ohnawa, S. Ikeda, T. Hanyu, H. Ohno and T. Endoh, Tohoku Univ. (Japan)</i>
14:45 A-1-5 Temperature Dependence and Current Collapse of AlGaN/GaN Super Heterojunction Field Effect Transistor <i>S. Yagi¹, S. Hirata¹, Y. Sumida¹, A. Nakajima¹, H. Kawai¹ and E. M. Sankara Narayanan², ¹POWDEC, K. K. and ²Univ. Sheffeld (Japan)</i>	14:30 BL-1-5 In situ monitoring of organic solar cells during thermal annealing <i>K. T. Hung, C. Y. Hsiao, H. T. Wu, S. W. Fu, H. J. Chen and C. F. Shih, National Cheng Kung Univ. (Taiwan)</i>	14:30 B-1-5 Pattern Formation of Phosphorescent Polymer Thin Films by Spin-Coated Photo-reactive Monomer Films <i>D. Miyagawa, M. Miroyama, K. Tanaka and H. Usui, Tokyo Univ. of Agri. and Tech. (Japan)</i>	15:00 C-1-5 (Late News) Effect of H ₂ gas addition on Si Oxidation Process with Ar and O ₂ Mixture Surface Wave Plasma <i>K. Takeda and M. Hori, Nagoya Univ. (Japan)</i>	14:50 D-1-5 Design of Power-Efficient 130GHz Common-Source Amplifiers <i>K. Katayama¹, M. Motoyoshi², K. Takano² and M. Fujishima¹, ¹Hiroshima Univ. and ²Univ. of Tokyo (Japan)</i>	15:00 E-1-5 High-Electron-Mobility Ge n-MOSFET with TiN Metal Gate <i>T. Yamamoto, K. Yamamoto, K. Sakamoto, H. Yang, D. Wang and H. Nakashima, Kyushu Univ. (Japan)</i>	
15:00 A-1-6 Sputtered amorphous AlN gate dielectric for AlGaN/GaN metal-insulator-semiconductor heterojunction field-effect transistor <i>H. A. Shih, M. Kudo, M. Akabori and T. Suzuki, JAIST (Japan)</i>	14:45 BL-1-6 RF-Sputtered High-Mobility Indium Molybdenum Thin Films for Organic Solar Cell Applications <i>H. J. Chang, W. F. Chen, S. S. Cheng, K. M. Huang, T. H. Huang, C. L. Ho and M. C. Wu, National Tsing Hua Univ. (Taiwan)</i>	14:45 B-1-6 Device Parameters Determination by Novel Schottky Model Fitting for Organic Light-Emitting Diodes (OLEDs) <i>T. Hirai, K. Weber, M. Bown and K. Ueno, CSIRO (Australia)</i>				
		15:00 BL-1-7 Comprehensive Studies of Solvent Annealing on Organic Photovoltaics <i>H. T. Wu, C. Y. Hsiao, K. T. Hung, H. J. Chen, S. W. Fu, S. H. Wu and C. F. Shih, National Cheng Kung Univ. (Taiwan)</i>	15:00 B-1-7 (Late News) Three Terminal Nano-Scale Electrode for Molecular Transistor Evaluation <i>K. Tsutsui, M. Morita, M. Tokuda, H. Takagi, Y. Ito and Y. Wada, Toyo Univ. (Japan)</i>			

Coffee Break

A-2: III-V HBTs and FETs (Area 6) (15:40-16:55) Chairs: K. Maezawa (Univ. of Toyama) Y. Miyamoto (Tokyo Tech)	BL-2: Organic Photovoltaics (2) (Area 10&14) (15:40-17:25) Chairs: S. H. Su (I-Shou Univ.) N. Kojima (Toyota Technological Inst.)	B-2: Organic device fabrication process and interface control (Area 10) (15:40-17:25) Chairs: H. Usui (Tokyo Univ. of Agri. & Tech.) K. Takimoto (Canon Inc.)	D-2: Device & Characteristics (Area 3) (15:40-17:00) Chairs: K. Okano (Toshiba Corp.) F. Boeuf (STMicroelectronics)	E-2: Characterization in Gate Stacks (Area 1) (15:45-17:15) Chairs: S. Tsukikawa (Sony Corp.) H. Nohira (Tokyo City Univ.)	F-2: FeRAM/DRAM/SRAM (Area 4) (15:40-17:30) Chairs: K. Hamada (Elpida Memory, Inc.) T. Eshita (Fujitsu Semiconductor Ltd.)
15:40 A-2-1 (Invited) Extending the Bandwidth and Functionality of High Performance InP HBT Technologies <i>M. Uribeaga¹, R. Pierson¹, J. Bergman¹, D. H. Kim¹, P. Rowell¹, B. Brar¹ and M. Rodwell^{1,2}, Teledyne Scientific Corp. and ²Univ. of California, Santa Barbara (USA)</i>	15:40 BL-2-1 Optimization of Carrier Collection Structure in Graded Organic Solar Cells <i>T. Horioka¹, Z. Wang¹, S. Naka¹ and H. Okada^{1,2}, ¹Univ. of Toyama and ²Center for Basic Res. and Development in Natural Sciences (Japan)</i>	15:40 B-2-1 (Invited) Nanotransfer Direct Printing Methods <i>M. M. Sung, Hanyang Univ. (Korea)</i>	15:40 D-2-1 Current Drive Enhancement of Strained Ge nMISFET with SiGe Stressors by Uniaxial Tensile Stress <i>Y. Kamimura, Y. Moriyama, K. Ikeda, M. Oda and T. Tezuka, MIRAI-Toshiba (Japan)</i>	15:45 E-2-1 (Invited) In depth characterization of electrical effects of dopants (Al, La, Mg, N) in high-k/metal gate stacks <i>G. Reimbold¹, M. Cassé¹, X. Garros¹, C. Leroux¹, M. Charbonnier¹, L. Brunet^{2,3}, S. Baudot^{1,4}, P. Caubère¹, C. Fenouillet-Bérange^{1,2}, F. Andrieu¹, O. Weber¹, P. Perreau^{1,2} and F. Martin¹, ¹CEA-LETI/MINATEC and ²STMicroelectronics (France)</i>	15:40 F-2-1 (Invited) An Overview of Embedded Ferroelectric Memory Technology <i>K. R. Udayakumar, T. S. Moise, S. R. Summersfelt, J. Rodriguez, M. Ball, L. Wang, H. McAdams and S. Madan, Texas Instruments Inc. (USA)</i>
16:10 A-2-2 Low-turn-on voltage heterojunction bipolar transistors with a C-doped In _x Ga _{1-x} As _y Sb _{1-y} base grown by metalorganic chemical vapor deposition <i>T. Hoshi, H. Sugiyama, H. Yokoyama, K. Kurushima and M. Ida, NTT Corp. (Japan)</i>	15:55 BL-2-2 Solution Processable Thin Film Organic Photovoltaic Cells based on Far Red Sensitive Soluble Squaraine Dyes <i>S. S. Pandey, T. Mizuno, S. K. Das, Y. Ogomi and S. Hayase, Kyushu Inst. of Tech. (Japan)</i>	16:10 B-2-2 Work Function controlled Zn:Cu electrode for all-printed polymer diode <i>M. Yoshida, S. Uemura, H. Tokuhisa, N. Takada and T. Kamata, AIST (Japan)</i>	16:00 D-2-2 Experimental Study of Si Monolayers for Future Extremely-Thin SOIs (ETSOIs): Phonon Confinement Effects and Strain due to Si Bending <i>T. Mizuno¹, K. Tobe¹, Y. Maruyama¹ and T. Sameshima², ¹Kanagawa Univ. and ²Tokyo Univ. of Agri. and Tech. (Japan)</i>	16:15 E-2-2 Role of Al atoms in (TaC) _x Al _{1-x} gate electrode on V _{fb} for HfO ₂ gate stack <i>M. Kimura¹, T. Nabatame², H. Yamada¹, A. Ohi², T. Chikyow² and T. Ohishi¹, Shibaura Inst. of Tech. and ²MANA Foundry and MANA Advanced Device Materials Group, National Inst. for Materials Sci. (Japan)</i>	16:10 F-2-2 Data Disturbance-free NAND-type Ferroelectric-gate Thin Film Transistor Array using Solution-processed ITO and Stacked (BLT/PZT) Gate Insulator <i>B. N. Q. Trinh¹, T. Miyasako¹, T. Kaneda¹, P. V. Thanh², P. T. Tu², E. Tokumitsu^{1,3} and T. Shimoda^{1,2}, ¹JST, ²JAIST and ³Tokyo Tech (Japan)</i>

Wednesday, September 28

11F 1104	11F 1107	12F 1201	12F 1202	12F 1203	12F 1204	12F 1207	12F 1208
GH-1: Image Sensor and MEMS Technology (1) (Area 5&11) 14:40 GH-1-4 (Invited) RF MEMS Switch Technology in OMRON <i>T. Seki, Y. Uno, K. Narise, T. Masuda, K. Inoue and F. Sato, OMRON Corp. (Japan)</i>		I-1: Optical Link and Related Devices (Area 7) 14:30 I-1-4 Magnetically Controllable Optical Intensity and Mode Redistribution in Semiconductor Active Optical Isolators <i>H. Shimizu, K. Uehara and K. Tazawa, Tokyo Univ. of Agri. & Tech. (Japan)</i> 14:45 I-1-5 An inverted InAlAs/InGaAs avalanche photodiode with low-high-low field profile <i>M. Nada, Y. Muramoto, H. Yokoyama, N. Shigekawa, T. Ishibashi and S. Kodama, NTT Photonics Labs. (Japan)</i> 15:00 I-1-6 Responsivity Characteristics of InP/InGaAs Heterojunction Phototransistors with Strained InAs/InGaAs Multiquantum Well Absorption Layers <i>H. Egusa¹, H. Fukano¹, S. Taeu¹, T. Sato² and M. Mitsuhashi², ¹Okayama Univ. and ²NTT Photonics Labs. (Japan)</i>		K-1: CNT Property (Area 13) 14:30 K-1-4 Sensing Property of Horizontally Aligned Carbon Nanotube Field-Effect Transistor on Quartz Substrate <i>S. Okuda, S. Okamoto, Y. Ohno, K. Maehashi, K. Inoue and K. Matsu-moto, Osaka Univ. (Japan)</i> 14:45 K-1-5 Estimation of height of defect-induced barriers in metallic CNTs <i>Y. Okigawa, Y. Ohno, S. Kishimoto and T. Mizutani, Nagoya Univ. (Japan)</i> 15:00 K-1-6 Room Temperature Single Charge Memory by Carbon Nanotube Transistor With SiN _x /Al ₂ O ₃ Wrapped Double Gate Insulator Layers <i>T. Kamimura^{1,2,3}, Y. Hayashi^{2,3} and K. Matsumoto^{1,2,3}, ¹Osaka Univ., ²CREST-JST and ³AIST (Japan)</i>	L-1: Quantum Well& III-V Solar Cell (Area 14) 14:30 L-1-4 InGaN/GaN solar cells grown on wet-etched patterned sapphire substrates <i>C. H. Yang, Y. C. Yao, C. M. Cheng, M. H. Lee and Y. J. Lee, National Taiwan Normal Univ. (Taiwan)</i> 14:45 L-1-5 Effect of Thermal Stress on a N-related Recombination Center in GaAsN Grown by Chemical Beam Epitaxy <i>B. Bouzai, N. Kojima, Y. Ohshita and M. Yamaguchi, Toyota Tech. Inst. (Japan)</i> 15:00 L-1-6 2-dimensional mapping of power consumption due to series resistance evaluated by simulator for concentrator photovoltaic module <i>Y. Ota and K. Nishioka, Univ. of Miyazaki (Japan)</i>	M-1: Nitrides (Area 8) 14:30 M-1-4 Surface Supersaturation in Nucleus and Spiral Growth of GaN in MOVPE <i>T. Akasaka, Y. Kobayashi and M. Kasu, NTT Basic Res. Labs. (Japan)</i> 14:45 M-1-5 Growth of Nitrogen-Polar 2H-AlN on Step-Height-Controlled 6H-SiC (000-1) Substrate by Molecular-Beam Epitaxy <i>H. Okumura, T. Kimoto and J. Suda, Kyoto Univ. (Japan)</i> 15:00 M-1-6 A Novel Chemical Lift-Off Process based on Embedded Nano-rods Template <i>S. S. Yen, W. Y. Chen, J. R. Chang, S. P. Chang, P. M. Tu, Y. C. Hsu, Y. J. Li, Y. C. Chen, K. P. Sou and C. Y. Chang, National Chiao Tung Univ. (Taiwan)</i>	
GH-2: Image Sensor and MEMS Technology (2) (Area 5&11) (15:40-17:20) Chairs: K. Sawada (Toyohashi Univ. of Tech.) H. Morimura (NTT Microsystem Integration Labs.) 15:40 GH-2-1 (Invited) WLAN(IEEE 802.11n)/m-WiMAX(IEEE 802.16e) 2x2 MIMO FRONT-END MODULE USING MEMS & LTCC TECHNOLOGY <i>K. Chun¹, S. Kang¹, Y. Jang¹, J. C. Kim², C. S. Kim² and I. S. Song², ¹Southeast National Univ., ²Korea Electronics Tech. Inst. and ²Samsung Advanced Inst. of Tech. (Korea)</i> 16:10 GH-2-2 Manipulation of Dispersed Magnetic Beads for On-chip Immunoassay <i>T. Ishikawa^{1,2}, J. S. Lee¹ and R. Miyake^{1,2}, ¹Hiroshima Univ. and ²CREST-JST (Japan)</i>		I-2: Photonic Crystals (Area 7) (15:40-17:10) Chairs: M. Tokushima (AIST) S. Saito (Hitachi Ltd.) 15:40 I-2-1 (Invited) Photonic Crystal Devices Fabricated by CMOS-Compatible Process <i>T. Baba^{1,2}, Yokohama National Univ. and ²CREST-JST (Japan)</i> 16:10 I-2-2 An Epitaxially Regrown GaAs Based Photonic Crystal Surface Emitting Laser <i>D. M. Williams¹, K. M. Groom¹, B. J. Stevens¹, Q. Jiang¹, D. T. D. Childs¹, R. J. Taylor¹, S. Khamas¹, R. A. Hogg¹, N. Ikeda² and Y. Sugimoto², ¹Univ. of Sheffield and ²NIMS (UK)</i>		K-2: CNT Device (Area 13) (15:40-17:25) Chairs: K. Maehashi (Osaka Univ.) S. Sato (AIST) 15:40 K-2-1 Resistance distribution of CNT network measured by conductive atomic force microscopy <i>K. Housayama, Y. Okigawa, S. Kishimoto, Y. Ohno and T. Mizutani, Nagoya Univ. (Japan)</i> 15:55 K-2-2 Theoretical Study of AC Response of Defective Carbon Nanotubes: Tube Diameter Dependence <i>D. Hirai¹, T. Yamamoto^{1,2} and S. Watanabe¹, ¹Univ. of Tokyo and ²Tokyo Univ. of Sci. (Japan)</i>	L-2: Thin-Film Silicon Solar Cells (Area 14) (15:40-17:25) Chairs: A. Masuda (AIST) K. Ohdaira (JAIST) 15:40 L-2-1 (Invited) Materials for thin film silicon solar cells <i>F. Finger, R. Carius, T. Chen, A. Lambertz and V. Smirnov, IEK5 - Photovoltaik, Forschungszentrum Jülich (Germany)</i> 16:10 L-2-6 Effect of Hydrogen Radical-Injection on Growth Property and Crystallinity of Microcrystalline Silicon Thin Film <i>Y. Abe, A. Fukushima, Y. Lu, K. Take-hara, H. Kondo, K. Ishikawa, M. Sekine and M. Hori, Nagoya Univ. (Japan)</i>	M-2: Oxides (Area 8) (15:40-17:25) Chairs: K. Hara (Shizuoka Univ.) T. Nagata (NIMS) 15:40 M-2-1 (Invited) Multi-dimensional Nanostructured Oxide Devices <i>H. Taknaka, A. Ono, T. Kusizaki, K. Fujiwara and A. Hattori, Osaka Univ. (Japan)</i> 16:10 M-2-2 Crystal growth and optical characterizations of nonpolar m-plane ZnO on the m-plane sapphire substrate by PLD <i>C. C. Kuo¹, B. H. Lin^{1,2}, W. R. Liu², C. H. Hsu^{1,2} and W. F. Hsieh¹, ¹National Chiao Tung Univ. and ²National Synchrotron Radiation Research Center (Taiwan)</i>	

Coffee Break

GH-2: Image Sensor and MEMS Technology (2) (Area 5&11) (15:40-17:20) Chairs: K. Sawada (Toyohashi Univ. of Tech.) H. Morimura (NTT Microsystem Integration Labs.)	I-2: Photonic Crystals (Area 7) (15:40-17:10) Chairs: M. Tokushima (AIST) S. Saito (Hitachi Ltd.)	K-2: CNT Device (Area 13) (15:40-17:25) Chairs: K. Maehashi (Osaka Univ.) S. Sato (AIST)	L-2: Thin-Film Silicon Solar Cells (Area 14) (15:40-17:25) Chairs: A. Masuda (AIST) K. Ohdaira (JAIST)	M-2: Oxides (Area 8) (15:40-17:25) Chairs: K. Hara (Shizuoka Univ.) T. Nagata (NIMS)
15:40 GH-2-1 (Invited) WLAN(IEEE 802.11n)/m-WiMAX(IEEE 802.16e) 2x2 MIMO FRONT-END MODULE USING MEMS & LTCC TECHNOLOGY <i>K. Chun¹, S. Kang¹, Y. Jang¹, J. C. Kim², C. S. Kim² and I. S. Song², ¹Southeast National Univ., ²Korea Electronics Tech. Inst. and ²Samsung Advanced Inst. of Tech. (Korea)</i> 16:10 GH-2-2 Manipulation of Dispersed Magnetic Beads for On-chip Immunoassay <i>T. Ishikawa^{1,2}, J. S. Lee¹ and R. Miyake^{1,2}, ¹Hiroshima Univ. and ²CREST-JST (Japan)</i>	15:40 I-2-1 (Invited) Photonic Crystal Devices Fabricated by CMOS-Compatible Process <i>T. Baba^{1,2}, Yokohama National Univ. and ²CREST-JST (Japan)</i> 16:10 I-2-2 An Epitaxially Regrown GaAs Based Photonic Crystal Surface Emitting Laser <i>D. M. Williams¹, K. M. Groom¹, B. J. Stevens¹, Q. Jiang¹, D. T. D. Childs¹, R. J. Taylor¹, S. Khamas¹, R. A. Hogg¹, N. Ikeda² and Y. Sugimoto², ¹Univ. of Sheffield and ²NIMS (UK)</i>	15:40 K-2-1 Resistance distribution of CNT network measured by conductive atomic force microscopy <i>K. Housayama, Y. Okigawa, S. Kishimoto, Y. Ohno and T. Mizutani, Nagoya Univ. (Japan)</i> 15:55 K-2-2 Theoretical Study of AC Response of Defective Carbon Nanotubes: Tube Diameter Dependence <i>D. Hirai¹, T. Yamamoto^{1,2} and S. Watanabe¹, ¹Univ. of Tokyo and ²Tokyo Univ. of Sci. (Japan)</i>	15:40 L-2-1 (Invited) Materials for thin film silicon solar cells <i>F. Finger, R. Carius, T. Chen, A. Lambertz and V. Smirnov, IEK5 - Photovoltaik, Forschungszentrum Jülich (Germany)</i> 16:10 L-2-6 Effect of Hydrogen Radical-Injection on Growth Property and Crystallinity of Microcrystalline Silicon Thin Film <i>Y. Abe, A. Fukushima, Y. Lu, K. Take-hara, H. Kondo, K. Ishikawa, M. Sekine and M. Hori, Nagoya Univ. (Japan)</i>	15:40 M-2-1 (Invited) Multi-dimensional Nanostructured Oxide Devices <i>H. Taknaka, A. Ono, T. Kusizaki, K. Fujiwara and A. Hattori, Osaka Univ. (Japan)</i> 16:10 M-2-2 Crystal growth and optical characterizations of nonpolar m-plane ZnO on the m-plane sapphire substrate by PLD <i>C. C. Kuo¹, B. H. Lin^{1,2}, W. R. Liu², C. H. Hsu^{1,2} and W. F. Hsieh¹, ¹National Chiao Tung Univ. and ²National Synchrotron Radiation Research Center (Taiwan)</i>

Wednesday, September 28

5F Hall 1	5F Hall 2	10F 1002	10F 1003	11F 1101	11F 1102	11F 1103
A-2: III-V HBTs and FETs (Area 6)	BL-2: Organic Photovoltaics (2) (Area 10&14)	B-2: Organic device fabrication process and interface control (Area 10)		D-2: Device & Characteristics (Area 3)	E-2: Characterization in Gate Stacks (Area 1)	F-2: FeRAM/DRAM/SRAM (Area 4)
16:25 A-2-3 Effects of Plasma-PH _x passivation on Mobility Degradation Mechanisms and Current Conduction Mechanisms of In _{0.5} Ga _{0.47} As N-MOSFET <i>A. B. S Sumarinda^{1,2}, H. J. Oh¹, A. Du² and S. J. Lee¹, ¹National Univ. of Singapore and ²GLOBALFOUNDRIES Singapore Pte.Ltd. (Singapore)</i>	16:10 BL-2-3 Highly Efficient Organic Solar Cell Employing a Solution Processed Hole Transporting Layer <i>W. K. Lin, S. H. Su, Y. F. Lin, J. R. Wang, J. L. Huang and M. Yokoyama, I-shou Univ. (Taiwan)</i>	16:25 B-2-3 Interface Control of ITO and Spin-Coated Polymer by Reactive Self-Assembled Monolayer <i>S. H. Kim¹, H. Ohtsuka¹, M. C. Tria², R. C. Advincula² and H. Usui¹, ¹Tokyo Univ. of Agri. and Tech. and ²Univ. Houston (Japan)</i>		16:20 D-2-3 Lateral Source Relaxed/Strained Layer Heterostructures for Ballistic CMOS: Physical Relaxation Mechanism for Strained Layers by O ⁺ Ion Implantation <i>T. Mizuno, J. Takehi and S. Tanabe, Kanagawa Univ. (Japan)</i>	16:35 E-2-3 Impurity Profile Extraction of Semiconductor Devices from STM Tunneling Currents by Current Continuity Based Simulation <i>K. Fukuda¹, M. Nishizawa¹, T. Tada¹, L. Bolotov², K. Suzuki³, S. Sato³, H. Arimoto¹ and T. Kanayama¹, ¹AIST, ²Univ. of Tsukuba and ³Fujitsu Semiconductor Ltd. (Japan)</i>	16:30 F-2-3 Process Development of ALD-Rutile-TiO _x /Ru(O _x) for DRAM MiCap Application and its Leakage Mechanism Analysis <i>K. Tomida¹, M. Popovic¹, J. Swerts¹, W. C. Wang², B. Kaczer¹, M. A. Pavlak¹, S. Van Elshoch¹, M. S. Kim¹, I. Debusschere¹, V. V. Afanasiev², L. Altimine¹ and J. A. Kittl¹, ¹IMEC and ²Catholic Univ. of Leuven (Belgium)</i>
16:40 A-2-4 In _{0.5} Ga _{0.47} As Channel N-MOSFETs with Shallow Metallic S/D Extension <i>Z. Zhu, X. Gong, Ivana and Y. C. Yeo, National Univ. of Singapore (Singapore)</i>	16:25 BL-2-4 Sodium Doping at CuPc/C60 Interface for Photovoltaic Application <i>H. J. Chen, K. T. Hung, C. Y. Hsiao, S. W. Fu, H. T. Wu, S. H. Wu and C. F. Shih, National Cheng Kung Univ. (Taiwan)</i>	16:40 B-2-4 Field induced selective growth of organic conductive wires and molecular break junction by Joule heating <i>M. Sakai¹, Y. Urabe¹, H. Yamauchi¹, M. Nakamura^{1,2} and K. Kudo¹, ¹Chiba Univ. and ²NAIST (Japan)</i>		16:40 D-2-4 Recovery Characteristic of Anomalous Stress Induced Leakage Current of 5.6nm Oxide Films <i>T. Inatsuka, Y. Kumagai, R. Kuroda, A. Teramoto, S. Sugawa and T. Ohmi, Tohoku Univ. (Japan)</i>	16:55 E-2-4 Influence of channel area scaling on Weibull distribution of TDDB for poly-Si channel FET <i>I. Hirano, M. Saito, T. Numata and Y. Mitan, Toshiba Corp. (Japan)</i>	16:50 F-2-4 Optimization and Variation Studies of BTJ-based Ultra Thin Body Capacitorless DRAM Cell <i>M. H. Cho, C. Shin and T. J. King Liu, UC, Berkeley (USA)</i>
	16:40 BL-2-5 Charge trapping in organic solar cells with plasmonic silver nanoparticles <i>M. Weis¹, K. Vegoš¹, P. Siffalovic¹, M. Jergel¹, E. Majkova¹, K. Lee², X. Chen², L. Zhang², D. Taguchi², T. Manaka² and M. Iwamoto², ¹Slovak Academy of Sci. and ²Tohoku Tech (Slovakia)</i>	16:55 B-2-5 Bulk crystal growth of organic semiconductors for thermoelectric applications <i>Y. Ikuta, Y. Tsuchida, N. Muraya, T. Nagahama and T. Shimada, Hokkaido Univ. (Japan)</i>				17:10 F-2-5 A Compact Half Select Disturb Free SRAM Cell with Stacked Vertical MOS-FET <i>H. Na^{1,2} and T. Endoh^{1,2}, ¹Tohoku Univ. and ²CREST-JST (Japan)</i>
	16:55 BL-2-6 Effects of the Film Thickness on the Photocurrent Generation from Polythiophene-fullerene Thin films Containing of Silver Nanoparticles <i>J. You¹, Y. Takahashi¹, H. Yonemura¹, T. Akiyama² and S. Yamada¹, ¹Kyushu Univ. and ²Univ. of Shiga Prefecture (Japan)</i>	17:10 B-2-6 Geometric characterization of superoleophobic film <i>K. Tsuji and S. Shiratori, Keio Univ. (Japan)</i>				
	17:10 BL-2-7 Improvement of Short-Circuit Current in Plasmonic Organic Solar Cells Based on Grating Structures <i>A. Baba, D. Murashima, N. Aoki, K. Shinbo, K. Kato and F. Kaneko, Niigata Univ. (Japan)</i>					

Banquet/Young Researcher Award (16F, Tower Ball Room, Marriott Associa Hotel)

Wednesday, September 28

11F 1104	11F 1107	12F 1201	12F 1202	12F 1203	12F 1204	12F 1207	12F 1208	
GH-2: Image Sensor and MEMS Technology (2) (Area 5&11)		I-2: Photonic Crystals (Area 7)		K-2: CNT Device (Area 13)	L-2: Thin-Film Silicon Solar Cells (Area 14)	M-2: Oxides (Area 8)		
16:30 GH-2-3 In-pixel type small-scale integrated C-V converter with chopper stabilized CMOS inverter <i>R. Kodama¹, H. Miyao¹, M. Ishida¹ and H. Taka^{1,2}, ¹Toyohashi Univ. of Tech. and ²Kagawa Univ. (Japan)</i>		16:25 I-2-3 Photonic Crystal Band-edge Laser on a Flexible Substrate <i>K. S. Hsu^{1,2}, T. T. Chiu^{1,2} and M. H. Shih^{1,2}, ¹RCAS and ²National Chiao Tung Univ. (Taiwan)</i>		16:10 K-2-3 Argon Ion Bombardment to Improve Contacts in Solution-Processed Single-Walled Carbon Nanotube Thin Film Transistor <i>X. Yi, G. Nakagawa, H. Ozawa, T. Fujigaya, N. Nakashima and T. Asano, Kyushu Univ. (Japan)</i>	16:25 L-2-3 Development of the TCO Layer for Nanocrystalline Cubic Silicon Carbide / Silicon Heterojunction Solar Cells with Aluminum Oxide Passivation Layers <i>J. Irikawa, S. Miyajima, T. Watahiki and M. Konagai, Tokyo Tech (Japan)</i>	16:25 M-2-3 Processing Induced Pre-Existing Vacated (Empty) O-atom Defect Sites in Remote Plasma Deposited GeO ₂ and SiO ₂ Gate Dielectrics <i>G. Lucovsky, J. Kim, K. Wu, D. Zeller, B. Papas and J. L. Whitten, North Carolina State Univ. (USA)</i>		
16:50 GH-2-4 A Monolithically-Integrated, Batch Post-Processed 17.8 V Silicon Solar Cell for Remote MEMS Driving <i>I. Mori, S. Morishita, M. Kubota, K. Watanabe and Y. Mita, Univ. of Tokyo (Japan)</i>		16:40 I-2-4 Large Area of Ultraviolet GaN-based Photonic Quasicrystal Laser <i>C. C. Chen¹, M. Y. Kuo², C. H. Chiu¹, P. M. Tu¹, M. H. Shih¹, S. P. Chang¹, J. K. Huang¹, H. C. Kuo¹, H. W. Zan¹ and C. Y. Chang^{1,2}, ¹National Chiao Tung Univ. and ²RCAS (Taiwan)</i>		16:25 K-2-4 Optimization of Source/Drain Doping Concentration of Carbon Nanotube FETs to Suppress Off-state Leakage Current while Keeping Ideal On-state Current <i>B. P. Algul and K. Uchida, Tokyo Tech (Japan)</i>	16:40 L-2-4 Embedded Biomimetic Nanostructures in Thin-Film Solar Cells <i>H. W. Han¹, M. A. Tsai¹, Y. L. Tsai¹, P. C. Tseng¹, P. Yu¹, H. C. Kuo¹, C. H. Shen², J. M. Shieh^{1,2}, S. H. Lin¹ and C. Lin^{1,2}, ¹National Chiao Tung Univ. and ²National Nano Device Labs. (Taiwan)</i>	16:40 M-2-4 Epitaxy of Spinel Zn ₂ TiO ₄ (111) on GaN (001) for MOS Application <i>S. W. Fu, J. C. Wu, C. Y. Hsiao, K. T. Hung, S. H. Wu, H. J. Chen, H. T. Wu and C. F. Shih, National Cheng Kung Univ. (Taiwan)</i>		
17:05 GH-2-5 A novel CMOS image sensor with on-chip micro LED array for spatiotemporally controlled light stimulation and on-chip imaging of a neuronal tissue <i>A. Nakajima¹, T. Kobayashi^{1,2}, T. Noda^{1,2}, K. Sasagawa^{1,2}, T. Tokuda^{1,2}, Y. Ishikawa^{1,2}, S. Shiosaka^{1,2} and J. Ohita^{1,2}, ¹NAIST and ²CREST-JST (Japan)</i>		16:55 I-2-5 Optical Characteristics Improvement of High Q Microcavity Light Emitting Diodes with Buried AlN Current Blocking Apertures <i>Y. L. Wu, B. S. Cheng, T. C. Lu, C. H. Chiu, C. H. Chen, P. M. Tu, H. C. Kuo and S. C. Wang, National Chiao Tung Univ. (Taiwan)</i>		16:40 K-2-5 Spin-Related Novel Optical Phenomena in Single-Walled Carbon Nanotubes <i>S. Konabe^{1,2} and S. Okada^{1,2}, ¹Univ. of Tsukuba and ²CREST-JST (Japan)</i>	16:55 L-2-5 Photovoltaic Property of Wide-Gap Nanocrystalline Silicon Layers <i>R. Mentek, B. Geloz and N. Koshida, Tokyo Univ. of Agri. and Tech. (Japan)</i>	16:55 M-2-5 Functional Oxides Integrated Epitaxially onto Semiconductors <i>R. Droopad, G. Radhakrishnan, R. Contreras-Guererro, W. Priyantha and N. Theodoropoulou, Texas State Univ. (USA)</i>		
				16:55 K-2-6 Carbon Nanotube Photonics: Light emission in silicon and optical gain <i>N. Izard¹, E. Gaufré^{1,2}, A. Beck¹, A. Noury¹, X. L. Roux¹ and L. Vivien¹, ¹Univ. Paris-Sud and ²Univ. Montréal (France)</i>	17:10 L-2-2 Medium Range Order (MRO) in Hydrogenated Amorphous Si Detected by a Non-Vanishing Ligand Field Splitting, Δ LF, in Si L _{2,3} Core Level X-ray Spectra <i>G. Lucovsky¹, G.N. Parsons¹, D. Zeller¹, R. Lujan² and R.A. Street², ¹North Carolina State Univ. and ²Palo Alto Research Center (USA)</i>			

Banquet/Young Researcher Award (16F, Tower Ball Room, Marriott Associa Hotel)