Technical Program Schedule

Time	September 25 (Sun.)	Place
17:00-18:00	Register	Shangri-La Hotel 3F
18:00-20:30	Welcoming Party	Shangri-La Hotel 3F

Time	September 26 (Mon.)	Place
08:30-09:00	Register	Shangri-La Hotel 9F
09:00-09:20	Opening Speech (Chair: Wen-His Lee)	Shangri-La Hotel 9F
	(Chair: Michael Current)	
09:20-10:00	Keynote (1)	Shangri-La Hotel 9F
	Chenming Hu, UC Berkeley.	Shangii La Hotel Si
	Will semiconductor scaling end? What then?	
10:00-10:40	Coffee Break	
	Keynote (2)	
10:40-11:20	Tri-Rung Yew, UMC.	
	Semiconductor Industry Technology Trend and Challenges	Shangri-La Hotel 9F
	Keynote (3)	
11:20-12:00	Dick James, Chipworks.	
	Moore's Law Continues into the 1x-nm Era.	
12:00-13:30	Lunch	Shangri-La Hotel 3F
	CMOS Devices & Process	1
	(Chair: Wen-Kuan Yeh)	
13:30-14:00	Invite (1)	
	Sueng Woo Jin, SK hynix.	
	Implant and Anneal Technologies for Memory and CMOS Devices.	
	Oral (1)	
	Shu Qin, Micron Technology.	
	Challenges and Solutions of Doping Process and Doping Profiling Metrology on 2-	
	D (3-D) Devices.	Character Halalon
14:00-15:00	Oral (2)	Shangri-La Hotel 9F
	Ming-Yi Shen, Adarsh Basavalingappa, Stock Chang, Takeshi	
	Hayakawa, Hidekazu Matsugi and Christopher Borst, SUNY	
	Polytechnic Institute. Effect of Ion Flux in Source-drain Extension Ion Implantation for 10-nm Node	
	FinFET and Beyond on 300/450mm Platforms.	
	Oral (3)	
	Jeng-Hwa Liao, Macronix International Co.	
	Investigation of Floating Gate Implantation Effect on 1X NAND FLASH.	
15:00-15:20	Coffee Break	
15:20-16:20	(Chair: Jong-Shing Bow)	Shangri-La Hotel 9F

	Invite (2)
	Werner Schustereder, Infineon.
	Power Device Implants
	Invite (3)
	Nobukazu Teranishi, Univ. of Hyogo / Shizuoka Univ
	Ion Implantation Technology for Image Sensors
	Oral (4)
	Yi-Ju Chen, Yun-Jie Wei, Yao-Ming Huang, Min-Chuan Hsiao, Yen-
	Chang Chen, Hsin-Yi Peng, Chang-Hsien Lin, Kai-Shin Li, Yao-Jen
	Lee and Min-Cheng Chen, NDL.
16:20-17:00	A Hybrid Implant Doping Technique with Plasma Immersion Ion Implant (PIII)
	Process for 10 nm Fin Cannel of 3D-FET.
	Oral (5)
	YS Kim, Lam.
	Formation of 5nm ultra shallow junction on 3D devices structures by ion energy
	decoupled plasma doping.
	Invite (4)
17:00-18:00	Yao-Jen Lee, National Nano Device Laboratories.
	Novel Transistors by Damage-free Doping Method and Microwave Annealing for
	Sub-7nm Node
	Invite (5)
	Chee-Wee Liu, National Taiwan Univ
	Heavily Phosphorus-doped Si and Ge by Chemical Vapor Deposition

Time	September 27 (Tues.)	Place
08:30-09:00 Register	Register	NCKU Cheng Kung
08.30-09.00	negistei	Hall
	Monolayer Dopants & Films	
	(Chair: Yi-Ming Lin)	
	Invite (1)	
	Justin Holmes, Univ. College Cork.	
09:00-10:00	Chemical Approaches for Doping Semiconductor Nanostructures	
	Invite (2)	NCKU Cheng Kung
	Zengfeng Di, SMIT.	Hall
	Ion Beam Synthesis Of Layer-Tunable And Bandgap-tunable Graphene	
	Oral (1)	
10:00-10:20	Noriaki Toyoda and Isao Yamada, Univ. of Hyogo.	
	Low temperature graphene film formation with ethane cluster ion.	
10:20-10:40	Coffee Break	
Ion Processing		
10:40-12:00	(Chair: Kyoichi Suguro)	NCKU Cheng Kung

	Oral (1)	Hall
	Hiroshi Onoda and Yoshiki Nakashima, Nissin Ion.	
	Annealing behavior of Aluminum Implanted Germanium.	
	Oral (2)	
	Jeremiah G. Chan, Jose Mario A. Diaz, Erwin P. Enriquez, Motoi	
	Wada and Magdaleno Jr Vasquez, University of the Philippines.	
	Doping of Spray-pyrolized Graphene Films using Ar/N₂ Gas Discharge.	
	Oral (3)	
	Thomas P. Martin, Ethan L. Kennon, Henry L. Jr Aldridge, Kevin	
	Jones, Christopher Hatem and Renata A. Camillo-Castillo,	
	University of Florida.	
	Elimination of Oxidation Induced Interstitial Injection via Ge implants.	
	Oral (4)	
	Jan Kruegener, Fabian Kiefer, Yevgeniya Larionova, Michael	
	Rienaecker, Felix Haase, Robby Peibst and Hans-Jörg Osten,	
	Leibniz Universitaet Hannover.	
	Ion implantation for photovoltaic applications: Review and outlook for n-type	
	silicon solar cells.	
12:00-13:30	Lunch	Multifunction
12.00-13.30	Luncii	room
	Biotechnology	
	Invite (1)	
13:30-14:00	Paul Chu, City Univ. of Hong Kong.	NCKII Chong Kung
15.50-14.00	Modification of Biomaterials and Biomedical Devices by Plasma Immersion Ion	NCKU Cheng Kung
	Implantation & Deposited and Related Techniques	Hall
14:00-15:00	Student Award	
15:00-18:00	Poster Session 1	Multifunction
15.00-18:00	Poster Session 1	room

Time	September 28 (Wed.)	Place
08:30-09:10	Take bus to Tendrum-Cultrue	Tendrum-Cultrue
	Thermal Process &Tools	
	Invite (1)	
09:10-09:40	Lingyen Yeh, Taiwan Semiconductor Manufacturing Co.	
	An investigation of spike-RTA-driven non-uniformity in transistors	
	Oral (1)	Tendrum-Cultrue
	Pablo Acosta, Sebastien Kerdiles, Benoit Mathieu, Marc Veillerot,	Terraram Cartrae
09:40-10:20	Riadh Kachtouli, Fulvio Mazzamuto and Claire Fenouillet-	
	Beranger, Université Grenoble Alpes.	
	Nanosecond laser annealing for phosphorus activation in ultra-thin implanted	

	silicon-on-insulator substrates.	
	Oral (2)	
	Hikaru Kawarazaki, Akitsugu Ueda, Masashi Furukawa, Takayuki	
	Aoyama, Shinichi Kato and Ippei Kobayashi, SCREEN	
	Semiconductor Solutions.	
	New Flash Lamp Annealing tool equipped with an ambient control feature	
	suitable for high-k gate stack anneals.	
10.30-11.10	Drum Show	Tendrum-Cultrue
11:10-11:30	Coffee Break	renaram-carrae
	Thermal Process & Tools	
	Oral (3)	
	Toshiyuki Tabata and Fulvio Mazzamuto, SCREEN Semiconductor	
	Solutions.	
	UV excimer laser annealing for next generation power electronics.	
	Oral (4)	
11:30-12:30	Paul Timans, Thermal Process Solutions.	Tendrum-Cultrue
11.30-12.30	Dopant Activation and Deactivation Phenomena During Advanced Millisecond	Tenaram-carrae
	Anneal Cycles.	
	Oral (5)	
	Mazen Frédéric, Université Grenoble Alpes.	
	Fracture in epitaxial InP on Si for InGaAs On Insulator fabrication via Smart	
	CutTM.	
12:30-	Lunch	On Bus
12:30-18:00	Excursion	
18:00-20:30	Banquet Party	Tendrum-Cultrue

Time	September 29 (Thurs.)	Place
08:30-09:00	Register	NCKU Cheng Kung
00.00 00.00	1106,010	Hall
	Ion Implant Systems	
	Invite (1)	
	Yutaka Inouchi, Nissin Ion Equipment.	
	Doping process and tool for surface treatment using large-area ion beams	
09:00-10:00	Invite (2)	
	Hiro Ito, Applied Materials.	NCKU Cheng Kung
	Advancement of Ion Implanters that enabled Moore's law and evolution of	Hall
	semiconductor devices	
	Oral (1)	
10:00-10:20	Thomas Horsky, Sami Hahto, Tetsuro Yamamoto, Nissin Ion.	
	Novel ion source for the production of extended ribbon beams.	
10:20-10:40	Coffee Break	

15:00-18:00	Poster Session 2	Multifunction room
	High Current Ion Implanter "LUXiON".	
14:00-15:00	Yusuke Kuwata, Nissin Ion.	
	Oral (8)	
	Development of Plasma Flood Gun for Gen 5.5 Implanter.	
	and Junichi Tatemichi, Nissin Ion.	
	Oral (7) Tomokazu Nagao, Taro Hayakawa, Genki Takahashi, Yutaka Inouti	
	Development study of multi-element molecular ion implantation technique	Пан
	Characteristics of Carbon Cluster Ion Implanted Epitaxial Silicon Wafers -	NCKU Cheng Kung Hall
	Naoki Miyamoto, Sumco Corporation.	NOWLO
	Masada, Yoshihiro Koga, Hidehiko Okuda, Kazunari Kurita and	
	Ryo Hirose, Ryosuke Okuyama, Takeshi Kadono, Ayumi Onaka-	
	Oral (6)	
	Plasma doping for FinFET application	
13:30-14:00	Ziwei Fang, Taiwan Semiconductor Manufacturing Co.	
	Invite (3)	
12:00-13:30	Lunch	Multifunction room
	Method of Beam Energy Adjustment by Using Beam Parallelism.	
	Haruka Sasaki, SMIT.	
	Oral (5)	
	Medium Energy High Dose Ion Implanter.	
	Brian Gori, AMAT.	
	Oral (4)	
10:40-12:00	Technology Node.	Hall
	Ion Implant Process with New Mixture Gas (B ₂ H ₆ /H ₂ /BF3) for Advanced	NCKU Cheng Kung
	Kao, TSMC.	
	Chen-Chi Wu, Ying Cyuan Lyu, Yen Wen Chen and Ming Hsiang	
	Ion Source for Large and Very Large Ribbon Ion Beam Systems. Oral (3)	
	Nicholas White and August Westner, Albion Systems.	
	Oral (2)	

Time	September 30 (Fri.)	Place
08:30-09:00	Posistor	NCKU Cheng Kung
08:30-09:00	Register	Hall
nm-devices & films		
09:00-09:40	Keynote (4)	NCKU Cheng Kung
	Seiji Samukawa, Tohoku University.	Hall

	Neutral Beam Technology–Defect-free Nanofabrication for Novel Nano-materials	
	and Nano-devices	
	Invite (1)	
	Victor Moroz, Synopsys.	
	Variability of 5nm/3nm/2nm FinFET and Nanowire Transistors: Counting Particles	NCKII Chana Kuna
09:40-10:40	Invite (2)	NCKU Cheng Kung Hall
	David Jamieson, Univ. of Melbourne.	Пан
	Deterministic atom placement by ion implantation: Few and single atom devices	
	for quantum computer technology	
10:40-10:50	Coffee Break	
	Materials Modification	
	Oral (1)	
	Richard Daubriac, Mahmoud Abou Daher, Emmanuel Scheid,	
	Joblot Sylvain, David Barge and Filadelfo Cristiano, CNRS-LAAS.	
	Differential Hall characterisation of shallow strained SiGe layers.	
	Oral (2)	
10 50 11 50	Michael Ameen and Leonard Rubin, Axcelis Technologies.	NCKU Cheng Kung
10:50-11:50	Modification of poly-Si recrystallization using Si ⁺ , Ge ⁺ and As ⁺ implantation.	Hall
	Oral (3)	
	Volker Häublein, Märit Djupmyr, Erwin Birnbaum, Heiner Ryssel	
	and Lothar Frey, Fraunhofer IISB.	
	Ion Implantation of Polypropylene Films for the Manufacture of Thin Film	
	Capacitors.	
11:50-12:10	Closing Speech	NCKU Cheng Kung
11.50-12.10	Closing Speech	Hall

	Poster Session 1	
Syste	Systems and components for beamline ion implantation, plasma doping, cluster and molecular ion	
	beams over an ion energy range from ≈100 eV to several MeV.	
P1-1	PAS PFS a High Emission Plasma Flood for Ribbon Beam, M. Vella.	
P1-2	Mass-Analyzer for Large High Current-density Ribbon Ion Beams, N. White.	
P1-3	Utilization of Metal Organic Frameworks for the Management of Gases Used in Ion	
P1-3	Implantation Devices, O. Farha, W. Morris.	
P1-4	Improving Material Choices for Advanced Semiconductor Processing, T. Werninghaus, B. Mayr-	
P1-4	Schmoelzer, M. O'Sullivan, F. Schaper and D. Hacker.	
New Material Solution for Implant Processes Containing Halogen or Oxygen, T. Werningh		
P1-3	Mayr-Schmoelzer, M. O'Sullivan, F. Schaper and D. Hacker.	
P1-6	A dual microwave antenna plasma source, Y. Kuwata, T. Kasuya, N. Miyamoto, M. Wada, Y. Shun	
P1-6	and Y. Watanabe.	
P1-7	Extraction of a metal ion beam from a planar magnetron sputter ion source, M. Wada.	
P1-8	Development of a full metal seal low energy ion source, Y. Watanabe.	

P1-9	Exemplary ion source for the implanting of halogen and oxygen based dopant gases, T. J. Hsieh.	
P1-10	A medium energy range cluster ion source development, Y. Shun.	
P1-12	Low-energy electron plasma device for ion implant charge neutralization, J. Cummings.	
P1-13	Process robustness against photoresist outgassing in single-wafer high-energy implanters, H.	
	Kariya.	
P1-14	Intentional Two-Dimensional Non-Uniform Dose Implant with High Dynamic Dose Range, K. Ishibashi.	
P1-15	Spatial Variation of Electron Energy Distribution Functions along to Field Lines on ECRIS, Y. Kato.	
P1-16	Spatial Distribution of Multicharged Ions from Space Potentials Measured by Probe and Beam	
	Methods on ECRIS, Y. Kato.	
P1-17	Developing Pure Iron Evaporator and Production of Iron Ion Beam in Tandem-type Electron	
P1-17	Cycltron Resonance Ion Source, S. Hagino.	
P1-18	Optimization of Mid-Electrode Potential and Extraction Gap for Miscellaneous Ion Beam from	
P1-10	Electron Cyclotron Resonance Ion Source, T. Otsuka.	
P1-19	High-Accuracy Two-Dimensional Intentional Non-Uniform Dose Implant: MIND 2.0, S.	
P 1-19	Ninomiya.	
P1-20	A Beam Quality Control Method in SAion Ion Implanter, S. Ninomiya.	
P1-21	Beamline Design of SAion Ion Implanter, S. Ninomiya.	
P1-22	Influence of Beam-extraction Structure on the Ion Energy for Ultra-shallow Implantation, N. Sakudo.	
P1-23	Beam Energy Purity on Axcelis Purion XE High Energy Implanter, S. Satoh and J. David.	
P1-24	Extension of the Source Lifetime in HC Ion Implanter with Dedicated Species, K. C. Su.	
P1-25	Advances in ion source life, A. Cucchetti, A. Perel, C. Chaney, D. Sporleder, W. leblanc, M. Mccarty and B. Lindberg.	
	TCAD modeling.	
P1-26	Simulation study of implantation angle variation and its impact on device performance, R. D.	
P1-20	Chang and P. H. Lin.	
Ion	-assisted methods for advanced Photovoltaic devices and photon energy-shifting layers, etc.	
P1-27	Phosphorus-implanted emitter crystalline silicon solar cell with Al-BSF, K. Tanahashi, M.	
F1-27	Moriya, Y. Kida, S. Utsunomiya, T. Fukuda, K. Shirasawa and H. Takato	
	Layer transfer for Heterogeneous Materials Integration, 3D IC stacking, etc.	
P1-28	Surface Modification and Activation with Gas Cluster Ion Beam, T. Sasaki, N. Toyoda and I.	
1120	Yamada.	
Nan	Nano-scale device fabrication for quantum confined films, wires and dots, Quantum Information Processing, chemical and physical sensors, etc.	
	Strained Si Nanowire Formation During Oxidation of Si/SiGe Fins, W. M. Brewer, Y. Xin, C.	
P1-29	Hatem and V. Q. Truong.	
Biotechnology: processing of bio-compatible surfaces and interfaces, fabrication of DNA-scale sensors		
and bio-active devices.		

P1-30	Surface modification of PEEK with gas cluster ion beam irradiation, Y. Uouzmi, N. Toyoda and I.
P1-30	Yamada.

	Poster Session 2		
Planar and Non-Planar CMOS (FinFETs, nanowires, etc), 3D Memory and Power devices, Large-area			
Displays, LEDs, MEMS, Image Sensors, Photovoltaics, etc.			
P2-1	Improved Multi-Cusp Ion Source to efficiently extract B+ beam and PHx+ beam, H. Kai, I.		
1 2 1	Nishimura, Y. Inouti, T. Matsumoto and J. Tatemichi.		
P2-2	Surface dopant concentration modulation for FinFet applications, G. P. Lin and C. I. Li.		
P2-3	ALD Process for Dopant-rich Films on Si, T. Seidel and M. Current.		
P2-4	Characteristics of SiF4 Plasma Doping (PLAD), D. Raj, S. Qin, Y. J. Hu, A. McTeer and H. Maynard.		
Ion processing of Si, Group IV, III-V materials, graphene, disulphides, etc.			
P2-5	Channeling, Self-PAI, and Self-Sputtering Effects of Ion Implantation versus Ion Species, Energy,		
	and Dose – Data and Modeling, S. Qin.		
P2-6	Comparison of experimental emitter saturation current densities and simulated defect		
120	densities of boron-implanted emitters, J. Kruegener, F. Kiefer, R. Peibst and H. J. Osten.		
	Electrical deactivation of boron in p ⁺ -poly/SiO _x /crystalline silicon passivating contacts for		
P2-7	silicon solar cells, J. Kruegener, D. Tetzlaff, Y. Larionova, S. Reiter, M. Turcu, R. Peibst, J. D. Kähler		
	and T. Wietler.		
P2-8	Germanium Tetrafluoride (GeF4) and Hydrogen (H2) Mixture for Implanter Performance		
0	Improvement, B. Chambers, Y. Tang, S. Bishop, J. Sweeney, T. Morel and M. Biossat.		
P2-9	New Dopant Gas Source for Improving Productivity of Boron Implant, C. Robin.		
P2-10	New Dopant Gas Source for Improving Productivity of Silicon Implant, C. Robin.		
P2-11	High (5E15/cm²) & Low (5E13/cm²) Dose USJ Implantation into Ge-epi on Si Wafers: Dopant		
	Activation, Damage REcovery and Mobility Effects, J. Borland.		
P2-12	Surface Strained Ge-Cz Wafers By Sn-Implantation For High Electron and Hole Mobility With		
	Very Low N-well & P-well Sheet Resistance, J. Borland.		
P2-13	Sheet Resistance Dependence on Ion Angle Deviation, Y. Kawasaki.		
P2-14	Change of V-Curve Behavior Depending on Implant Angle Deviation in Channeling Condition,		
	M. Sano.		
P2-15	MC3 V-curve Characteristics in Low Energy Implantation, S. Kawatsu.		
	terials Modification by ion implantation and thermal processing technology for etch rate and		
dielect	ric constant modification, junction contact and metal gate work function tuning, PR stabilization		
	for multi-exposure lithography, etc.		
P2-16	Thermal stability of Cobalt Silicide on Polysilicon Implanted with Germanium, Z. J. Ko.		
	Carbon Implantation Performance Improvement by Mixing Carbon Monoxide (CO) with		
P2-17	Carbonyl Fluoride (COF ₂) and Carbon Dioxide (CO ₂), Y. Tang, S. Yedave, O. Byl, J. Despres, E. Tien,		
P2-18	S. Bishop and J. Sweeney.		
	Hydrogen Selenide (H2Se) Dopant Gas for Selenium Implantation, Y. Tang, S. Yedave, J. Despres,		
	O. Byl, J. Sweeney.		

New doping techniques: "monolayer" dopant-organic films, ALD, selective CVD/epi, MOCVD, laser-		
assisted doping, thermal and recoil mixing methods, etc.		
P2-19	Investigation of Boron Gas Mixtures for Beamline Implant, Y. Tang, O. Byl, S. Yedave, J. Despres	
	and J. Sweeney.	
P2-20	Diffusion Suppression of Delta Doped Phosphorus in Germanium by Implantation of Nitrogen,	
	A. Scheit, T. Lenke and Y. Yamamoto.	
Metrology methods: elemental, electrical and morphological analysis of 3D devices, junctions, strain,		
interfaces and contacts, in-line process controls, etc.		
P2-21	Inspecting the restructure of ultra-low energy Boron implanted Si(110) by nonlinear optics, K. Y. Lo.	
D2 22	A novel method for simultaneous on wafer level monitoring of ion implantation energy and	
P2-22	dose, M. Jelinek, M. Lugger, N. Siedl, W. Schustereder, C. Krüger and M. Wagner.	
	Demonstration of Stable Operation of a Microwave Ion Source with Beam Current Greater	
P2-23	than 100 mA H ⁺ and Beam Voltage Up to 320 kV, E. Sengbusch, P. Barrows, G. Becerra, A.	
	Kobernik, L. Campbell, C. Seyfert, S. Christensen and R. Radel.	
Biotec	hnology: processing of bio-compatible surfaces and interfaces, fabrication of DNA-scale sensors	
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P2-24	hnology: processing of bio-compatible surfaces and interfaces, fabrication of DNA-scale sensors and bio-active devices. Cluster Ion Beams for Organic Semiconductors and Biological Materials, J. Matsuo, K. Suzuki, M. Kusakari, T. Seki and T. Aoki. Advanced Thermal Annealing: Flash, Laser, Microwave, Neutral Beams, etc. Dopant activation control using soak pulses in Flash Lamp Annealing, M. Abe, K. Fuse, S. Kato, T. Aoyama and I. Kobayashi. Photoluminescence Studies on High Activation of Silicon Dopants in InGaAs with Ultra Low	
P2-24 P2-25	hnology: processing of bio-compatible surfaces and interfaces, fabrication of DNA-scale sensors and bio-active devices. Cluster Ion Beams for Organic Semiconductors and Biological Materials, J. Matsuo, K. Suzuki, M. Kusakari, T. Seki and T. Aoki. Advanced Thermal Annealing: Flash, Laser, Microwave, Neutral Beams, etc. Dopant activation control using soak pulses in Flash Lamp Annealing, M. Abe, K. Fuse, S. Kato, T. Aoyama and I. Kobayashi.	
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P2-24 P2-25 P2-26	hnology: processing of bio-compatible surfaces and interfaces, fabrication of DNA-scale sensors and bio-active devices. Cluster Ion Beams for Organic Semiconductors and Biological Materials, J. Matsuo, K. Suzuki, M. Kusakari, T. Seki and T. Aoki. Advanced Thermal Annealing: Flash, Laser, Microwave, Neutral Beams, etc. Dopant activation control using soak pulses in Flash Lamp Annealing, M. Abe, K. Fuse, S. Kato, T. Aoyama and I. Kobayashi. Photoluminescence Studies on High Activation of Silicon Dopants in InGaAs with Ultra Low Temperature Microwave Annealing, T. L. Shih, T. C. Kuo, C. I. Li, C. P. Lin and W. H. Lee. Studies on Ultra Shallow Junction n-MOS with 300°C Microwave Annealing for Activation of Phosphorus Dopants in Germanium, W. C. Lin, T. L. Shih, C. I. Li, C. P. Lin and W. H. Lee.	