30 September (Tuesday), 2008

18:30 | 20:30

Reception

1 October (Wednesday), 2008

9:00 9:20	Opening Ceremony
9:20	(Keynote speech 1)
	Towards a damage-free machining of silicon: the critical role of β-tin
10:00	Liangchi Zhang, School of Aerospace, Mechanical & Mechatronic Engineering, The University of Sydney, Australia
10:00	(Keynote speech 2)
	Recent Development of PCBN Tools and their Impact of Manufacturing Process
10:40	Nakashima Takeru, Super Hard Materials Development Department, Sumitomo Electric Hardmetal Corp., Japan

Coffee Break

	Room A	Room B	Room C
	Grinding mechanism (1)	Field-assisted machining	Truing and dressing
	Chairperson: J. Tamaki	Chairperson: H. Sakamoto	Chairperson: C. Y. Wang
	Kitami Institute of Technology, Japan	Sophia University, Japan	Guangdong University of Technology, China
	Prediction of Grinding Force Distribution	Study on the Surface Quality of	A Truing Technique of Flattening
	in Wheel and Workpiece Contact Zone	Optical Glass in Ultrasonic-	Diamond Grains for Fabricating
11:00		magnetorheological Compound	Microstructures with Fine Surfaces
11.20		Finishing	
11:20	Z. Shi, M. Srinivasaraghavan, H. Attia	Feihu Zhang, Huijun Wang , Jianfeng Liu,	Takeshi HARADA and Takuya SEMBA
	Institute for Aerospace Research of National	Dianrong Luan, Yong Zhang	Fukuoka Institute of Technology, Japan
	Research Council, Canada	Harbin Institute of Technology, China	
	Study on the Subsurface Damage of	Quartz Wafer Machining using MCF	The Possibility of Dressless Restoration of
	Single Crystal MgO Substrates	(Magnetic Compound Fluid) Polishing	Grindactivity in Dry Grinding of Carbon
11:20		Liquid Frozen with Liquid Nitrogen	
11 40	Z.G. Dong, R.K. Kang, Z.Y. Jia	Y. Wu, K. Shimada	Kazuhito OHASHI, Yosuke SUMIMOTO, Yuya
11:40	Dalian University of Technology, China	Akita Prefectural University,Japan	FUJITA, Hiroyuki HASEGAWA and Shinya
			TSUKAMOTO
			Okayama University,Japan
	Study on Improvement of Material	Simulation and Experimental Analysis	Virtual Truing and Dressing of Grinding
	Removal Rate in Chemo-mechanical	of Electromagnetic Inductor for	Wheel
11:40	Grinding (CMG) of Si Wafer	Magnetic Abrasive Finishing	
12.00	J. Sasaki, T. Tsuruga, B. Soltani.H, T. Mitsuta1, Y.B.	Q. S. Yan, T.X. Qiu, W.Q. Gao, L. Meng	Zbigniew M. Bzymek, Glen M. Duzy and Richard B.
12:00	Tian, J. Shimizu, L. Zhou, H. Eda, Y. Tashiro, H.	Guangdong University of Technology, China	Mindek, Jr
	Iwase, S. Kamiya		University of Connecticut, USA
	Ibaraki University, Japan		
	Comparative Study on the Materials	The research of NC magnetic abrasive	Effects of Cutting Edge Truncation on
	Removal Mechanism of Ceramics and	finishing for mould parting surface	Ultrasonically Assisted Grinding
12:00	Steels		
12:20	Jianqiang GUO, Hitoshi OHMORI, Kazutoshi	W.Q. Gao, L.Meng, Q.S. Yan, J.H.Song, T.X. Qiu	Keisuke Hara, Hiromi Isobe and Akira Kyusojin
12.20	KATAHIRA, Yoshihiro UEHARA	Guangdong University of Technology, China	Ichinoseki National College of Technology,Japan
	The Institute of Physical and Chemical Research,		
	Japan		

Lunch Break

	Grinding mechanism (2)	New grinding processes (1)	Abrasive jet machining
	Chairperson: Z. Shi	Chairperson: N. Kramer	Chairperson: K. Okuda
	Institute for Aerospace Research of National	Leibniz Universität Hannover, Germany	University of Hyogo, Japan
	Research Council, Canada		
	Grinding of Carbon/Epoxy Composites	Computer Aided Design and Grinding	A Preliminary Study of the Erosion
13:40	Using Electroplated CBN Wheel with	for Helical Drill Points	Process in Micro-machining of Glasses
	Controlled Abrasive Clusters		with a Low Pressure Slurry Jet
14:00	H. P. Yuan, H. Gao, Y.J. Bao, Y. Wu	P. Zou, X.Y. Li, Y. Tang, X.L. Yang	T. Nguyen, K. Pang, J. Wang
	Dalian University of Technology, China	Northeastern University, China	University of New South Wales, Australia

	Experimental Analysis of Elastic and	A New CBN Crystal for Improved	Hole Machining of Glass by Micro
	Plastic Behavior in Ductile-Regime	Grinding Performance In Vitrified	Abrasive Suspension Jets
14:00	Machining of Glass Quartz Utilizing a	Bonds	-
	Diamond Tool	1	
14:20	Jun'ichi TAMAKI, Akihiko KUBO and Jiwang YAN	Sridhar Kompella, Kai Zhang, Rajeev	C.Y.Wang, M.D.Chen, P.X.Yang, J.M.Fan
	Kitami Institute of Technology, Japan	Pakalapati Diamond Innovations Inc. USA	Guangdong University of Technology, China
	Characteristics of the Wheel Surface	Study on Two kinds of Grinding	Simulation and Analysis of Abrasive Jet
14.20	Topography in Ultra-precision Grinding	Wheels for Dynamic Friction Polishing	Machining with Wheel Restriction in
14:20	of Silicon Wafers	of CVD Diamond Film	Grinding
14:40	F.W. Huo, D.M. Guo, R.K. Kang, Z.J. Jin	Z.J.Jin, Z.W.Yuan, R.K.Kang and B.X.Dong	Wanshan Wang,Lida Zhu,Tianbiao Yu, Jianyu Yang,
	Dalian University of Technology, China	Dalian University of Technology, China	Liang Tang
 			Northeastern University, China
1 !	Fractal Analysis of Self-Sharpening	Fundamental Study on the Precision	Profit optimization of Abrasive Blasting
14:40	Phenomenon in cBN Grinding	Abrasive Machining Using a	Systems
		Cavitation in Reversing Suction Flow	1
15:00	Yoshio Ichida, Ryunosuke Sato, Masakazu Fujimoto	Kazuhito OHASHI, Rongjun WANG, Hiroyuki	Vu Ngoc Pi
	and Nabil Ben Fredj	HASEGAWA, Shinya TSUKAMOTO	Delft University of Technology, Netherlands
 	Utsunomiya University, Japan	Okayama University, Japan	D. C.D. 11 March True Decider Let
 	Observation of abrasive grains behavior	Researches on Effect of Impact Micro-	Design of Double Nozzle Type Powder Jet
	in contact area of grinding wheel and	damages in Contact Layer on	Device Optimized for PJD
15:00	comparison with grinding wheel model	Machinability in Quick-point Grinding	1
		1	
15:20	Takazo Yamada and Hwa-Soo Lee	Shichao Xiu, Suoxian Yuan and Guangqi Cai	Toshihiko Shibuya, Mohammad Saeed Sepasy, Koichi
	Nihon University, Japan	Northeastern University, China	Mizutani, Nobuhito Yoshihara, Jiwang Yan,
	1	1	Tsunemoto Kuriyagawa Tohoku University Japan

Coffee Break

	Grinding systems and tools	New grinding processes (2)	Non-conventional machining
	Chairperson: Y. Wu	Chairperson: K. Ohashi	Chairperson:D. M. Guo
	Akita Prefectural University, Japan	Okayama University, Japan	Dalian University of Technology, China
	Thermal Damage of Micro Diameter Hole	Study on Abrasive Geometry of Quick-	Thermal deformation of base sheet and
15.40	Drilled by Super-High-Speed Spindle in	point Grinding	local deformation around laser cutting edge
15.40	PWB		
16:00	Hiroshi NOJIRI, Toshiki HIROGAKI, Eiichi	Suoxian Yuan, Dongna Xie, Yadong Gong	Masayuki Nunobiki, Koichi Okuda, Shogo Morino
	AOYAMA, Keiji OGAWA and Tsuyoshi OTSUKA	Northeastern University, China	University of Hyogo, Japan
	Dohisha University, Japan		
	Experimental Trial of Fullerene Wheel	Model-Based Compensation of	Grinding Combination of Electrochemical
16:00	Fabrication	Geometry-Errors when Grinding	Smoothing On SKH 51 Surface
16.20		Material Compounds	
10.20	Takeshi Tanaka	B. Denkena, N. Kramer	P.S. Pa
	Ritsumeikan University, Japan	A New Type of Drill Crinder Based on	National Taiper University of Education, Taiwan
	Research of Ultranigh Speed Officing	A New Type of Diffi Giffider Based off	Fundamental Study on Influence of Surface
16:20	Spindle System Based on Squeeze Film	the Special Universal Joint	Topography on Photocatalytic Reaction
	Damping Technology		
16:40	Tianbiao Yu, Yadong Gong, Hu Li, Jianyu Yang,	P. Zou, H.R. Qiu, S.M. Gao, M. Hu	Keisuke Azusawa, Yuta Ishii, Jun Shimizu, Libo Zhou,
	Wanshan Wang	Northeastern University, China	Hiroshi Eda Ikawaki Ukiwawita Jawa
	Norineastern University, China Development of CNT Coated Diamond	Simulation of Dynamic Performance	European E
	Grains Using Self Assembly Techniques	for Hydro hybrid Spindle Bearing	Nanostructure by Means of Local Anodia
	for Improving Electroplated Diamond	Sustant of Superhist Speed Crinder	Quidation
16:40		System of Supernigh Speed Offider	Oxidation
17:00			
17:00	Tsunehisa Suzuki, Toshiaki Mitsui, Tomoki Fujino, Mutsuto Kata Vasufumi Sataka Hinashi Saita	Wanshan Wang, Lida Zhu, Tianbiao Yu, Jiashun	Yumetaka Suehisa, Toshiaki Aoki, Jun Shimizu, Libo
	Muisulo Kalo, Tasujumi Salake, Hirosni Sallo, Seiva Kohavashi	Shi, fiu Li Northeastern University China	Znou, Hirosni Eaa Iharaki University Japan
	Yamagata research institute of technology, Japan	Normeasiern Oniversity, China	iburuki Oniversity, supun
	Proposal of pulverization method based	Model based Characterization of the	An investigation into surface roughness of
17:00	on grinding process in order to recycle	Grinding Wheel Effective Topography	EDM using soft particles suspension in
17.00	FRP waste		silicone oil
17:20	Haruhisa Sakamoto, Shogo Nabata, Shinji Shimizu	Berend Denkena, Niklas Kramer and Christoph	Y.Y.Tsai, C.K. Chang
	Sophia University, Japan	Wangenheim	National Tsing Hua University, Taiwan
		Leibniz Universität Hannover, Germany	

2 October (Thursday), 2008

	Room A	Room B	Room C
	Measurement and modeling (1)	Vibration-assisted machining (1)	Slicing and edge finishing
	Chairperson: H. S. Lee	Chairperson: P.S. Pa	Chairperson:Masahiro Mizuno
	Nihon University, Japan	National Taipei University of Education, Taiwan	Iwate University, Japan
	Error Analysis and Robust Position	Fabrication of high-aspect ratio micro	Analysis on the Fracture Failure of Brazed
	Measurement for Vertex of a Small	holes on hard brittle materialsStudy on	Diamonds in Wire Sawing
9:00	Polyhedron	electrorheological fluid-assisted micro	
		ultrasonic machining	
9:20	Takashi HARADA	T. Tateishi, N. Yoshihara, J. Yan and T.	Guoqin Huang, Hui Huang, Xipeng Xu
	Kinki University, Japan	Kuriyagawa	Huaqiao University, China
		Tohoku University, Japan	
	Grinding Burn and Chatter Classification	Grinding of Soft Steel with Assistance of	Effects of Thermal Deformation of Multi-
9.20	Using Genetic Programming	Ultrasonic Vibrations	Wire Saw's Wire Guides and Ingot on Slicing
.20			Accuracy
9:40	Xun Chen, James Griffin	Taghi Tawakoli, Bahman Azarhoushang,	Yoshinori Abe, Ken-ichi Ishikawa, Hitoshi Suwabe
	University of Huddersfield, England	Mohammad Rabiey	Toyo Advanced Technologies Co., Ltd.,Japan
		Furtwangen University, Germany	
	Control of nano-topography on an	Ultrasonic Vibration-Assisted Cutting of	Study on Glass Strength at High Speed Edge
9:40	axisymmetric ground surface	Titanium Alloy	Rounding for LCD
	Nobuhito Yoshihara, Jiwang Yan and Tsunemoto	Shigeomi Koshimizu	Nobuyoshi SUZUKI, Tatsunoli HALAI
10:00	Kuriyagawa	Advanced Institute of Industrial Technology, Japan	TOKYO DIAMOND TOOLS MFG.Co., LTD, Japan
	Tohoku University, Japan		
	Measurement of High-NA Axisymmetric	Effects of Grain Size and Concentration	
10.00	Aspherical Surface with Continuous	of Grinding Wheel in Ultrasonically	
	Interference Method	Assisted Grinding	
10:20	Y. Nagaike, T. Kuriyagawa, W. Gao, J. Yan, N.	M. Nomura, Y. Wu, T. Kuriyagawa, T. Kawashima	
	Yoshihara	and T. Shibata	
	Tohoku University, Japan	Toyohashi University of Technology, Japan	

Coffee Break

	Measurement and modeling (2)	Vibration-assisted machining (2)	CMP and semiconductor processing(1)
	Chairperson: X.Chen University of Huddersfield, England	Chairperson: T. Tawakoli Furtwangen University, Germany	Chairperson: P.L. Tso National Tsing Hua University, Taiwan
10:40 11:00	Observation of grinding wheel wear patterns by means of a 3-dimensional digital measuring method <i>Hwa-Soo Lee, Takazo Yamada, Naoyuki Ishida</i> <i>Nihon University, Japan</i>	Electrochemical Finishing with an Electrode Vibrated with Biaxial Ultrasonic Transducer Manabu Iwai, Wenqiu Wei, Shinichi Ninomiya, Sadao Sano, Tetsutaro Uematsu, Kiyoshi Suzuki Toyama Prefectural University, Japan	The Deformation Mechanism at Pop-in: Monocrystalline Silicon under Nanoindentation with a Berkovich Indenter <i>Li Chang and Liangchi Zhang</i> <i>University of Sydney, Australia</i>
11:00 11:20	Numerical analysis for thermal deformation of workpiece in cylindrical plunge grinding Hiroyuki Hasegawa, SURITALATU, Morisaki Sakakura, Shinya Tsukamoto Okayama University, Japan	Synchronous Finish Processes Using Grinding and Ultrasonic Electrochemical Finishing on Hole-Wall Surface P.S. Pa National Taipei University of Education, Taiwan	Material Removal Mechanism of Chemo- mechanical Grinding (CMG) of Si Wafer by Using Soft Abrasive Grinding Wheel (SAGW) D.M. Guo, Y.B. Tian, R.K. Kang, L. Zhou, M.K. Lei Ibaraki University, Japan
11:20 11:40	Fuzzy Rules for Surface Roughness of Ground Steels Y.M. Ali and L.C. Zhang University of Sydney, Australia	Development of a Three-Dimensional Tool Oscillation System for Finishing Metal Molds Masahiro Mizuno, Toshirou Iyama, Xu Zhang and Naohiro Nishikawa Iwate University, Japan	Subsurface Structures of Monocrystalline Silicon Generated by Nanogrinding Han Huang, Yueqin Wu, Yong Wang, Jin Zou, Libo Zhou University of Queensland, Australia
11:40 12:00	Geometrical Simulation of Surface Finish Improvement in Helical Scan Grinding Method by means of 3D-CAD Model Kiyoshi Suzuki, Yoichi Shiraishi, Shinichi Ninomiya, Manabu Iwai, Tetsutaro Uematsu Nippon Institute of Technology, Japan		Complete Recovery of Subsurface Structures of Machining-Damaged Single Crystalline Silicon by Nd:YAG Laser Irradiation Jiwang Yan, Tooru Asami, Tsunemoto Kuriyagawa Tohoku University, Japan

	Cutting (1)	Fluids for machining (1)	CMP and semiconductor processing(2)
	Chairperson: J. Wang	Chairperson: Y. Gao	Chairperson: L.C. Zhang
	University of New South Wales, Australia	H.K. University of Science and Technology, China	University of Sydney, Australia
	Planing of Cobalt-Free Tungsten Carbide	Engineering a Next Generation Water-	Study on adhesion removal model in CMP
13:40	Using a Diamond Tool Cutting	Based Grinding Fluid	SiO2 ILD
- 1	temperature and tool wear		
14:00	Akinori Yui, Hiroshi Matsuoka, Takayuki Kitajima, Shinahi Olemana	Peter Hug, Andrew R. Nelson, Stuart C. Salmon	D.M.Guo, R.H.Liu, R.K.Kang and Z.J.Jin
	Snigeki Okuyama National Defense Academy, Japan	Next Generation Technology Group Inc., USA	Dallan University of Technology, China
	Cutting Temperature Measurement in	Evaluation of Bearing Grinding Fluids	Study on the CMP Pad Life with Its
14.00	Turning with Actively Driven Rotary	5 5	Mechanical Properties
14.00	Tool		r · · · · · · · · · · · · · · · · · · ·
14:20	Suryadiwansa Harun, Toshiroh Shibasaka,	Milton L. Hoff, Stuart C. Salmon	Pei-Lum Tso, Zhe-Hao Huang, Sheng-Wei Chou, Cheng-
	Toshimichi Moriwaki	Master Chemical Corporation, USA	Yi Shih
	Kobe University, Japan	The Completion and Construct Decould	National Ising Hua University, Taiwan
	Coolant effects on tool wear in machining	The Correlation and Spectrum Research	Polisning Characteristics on Silicon water
14.20	single-crystal silicon with diamond tools	on Cylindrical Surface Lapping	Using Fixed Nano-sized Abrasive Pad
14.20		Machined with Abrasive Jet Finishing	
14:40		Restricted by Grinding Wheel	Dei Lem Ter and Change V. Chil
	Tsulomu Onia, Jiwang Tan, Sundo Kodera, Snuuma Yajima Naoyuki Horikawa Youichi Takahashi	F.Liu, I.D.Gong , I.Q.Snan, G.Q.Cai Northeastern University China	Pet-Lum Iso and Cheng-It Shin National Tsing Hua University Taiwan
	Tsunemoto Kuriyagawa	normeasiern entreisig, enna	Tunonai Tsing Tiai Oniversity, Tanan
	Machinability investigation of reaction-	Application of a Floating Nozzle to	A study on statistical analysis of Si-wafer
14.40	bonded silicon carbide by single-point	Grinding Process Using an Edge of	polishing process for the optimum polishing
14:40	diamond turning	Grinding Wheel	condition
15:00	Zhiyu Zhang, Jiwang Yan, Tsunemoto Kuriyagawa	Shinichi Ninomiya, Fan Qiang, Toshiharu Shimizu,	Sung-Chul Hwang, Jong-Koo Won, Jung-Taik Lee, Eun-
	Tohoku University, Japan	Manabu Iwai,Tetsutaro Uematsu, Kiyoshi Suzuki	Sang Lee
		Musashi Institute of Technology, Japan	Inha University, Korea
		Coffee Break	
	Cutting (2)	Fluids for machining (2)	CMP and semiconductor processing(3)
	Cutting (2) Chairperson: H. Huang	Fluids for machining (2) Chairperson: S. Salmon	CMP and semiconductor processing(3) Chairperson: A. Yui
	Cutting (2) Chairperson: H. Huang University of Queensland, Australia	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan
	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface
15:20	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical
15:20	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michile Ota, Juma Okida, Talashi Harada	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Values Comp. Yanghang Thurs. In Lie Wanghang	CMP and semiconductor processing(3) <i>Chairperson: A. Yui</i> <i>National Defense Academy, Japan</i> Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization <i>N. On. D.M. Cus. P.K. Knowed T.L. Vin</i>
15:20 15:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naghiro Toda, Hitoshi Sumiya	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology. China
15:20 15:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China	CMP and semiconductor processing(3) <i>Chairperson: A. Yui</i> <i>National Defense Academy, Japan</i> Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization <i>N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin</i> <i>Dalian University of Technology, China</i>
15:20 15:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant	CMP and semiconductor processing(3) <i>Chairperson: A. Yui</i> <i>National Defense Academy, Japan</i> Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization <i>N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin</i> <i>Dalian University of Technology, China</i> Achieving a damage-free polishing of mono-
15:20 15:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials	CMP and semiconductor processing(3) <i>Chairperson: A. Yui</i> <i>National Defense Academy, Japan</i> Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization <i>N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin</i> <i>Dalian University of Technology, China</i> Achieving a damage-free polishing of mono- crystalline silicon
15:20 15:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials	CMP and semiconductor processing(3) <i>Chairperson: A. Yui</i> <i>National Defense Academy, Japan</i> Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization <i>N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin</i> <i>Dalian University of Technology, China</i> Achieving a damage-free polishing of mono- crystalline silicon
15:20 15:40 15:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira,	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai	CMP and semiconductor processing(3) <i>Chairperson: A. Yui</i> <i>National Defense Academy, Japan</i> Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization <i>N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin</i> <i>Dalian University of Technology, China</i> Achieving a damage-free polishing of mono- crystalline silicon <i>A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu</i>
15:20 15:40 16:00	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology,	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia
15:20 15:40 16:00	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Onaka Institute of Technology, Japan	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia
15:20 15:40 16:00	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia
15:20 15:40 16:00	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting Processor	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Provision Grinding	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on poliching pod performance
15:20 15:40 15:40 16:00	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Works Matarial	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance
15:20 15:40 16:00 16:00	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Imma Okida, Hideki Moriguchi Takao Nishioka	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali
15:20 15:40 15:40 16:00 16:20	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Junya Okida, Hideki Moriguchi, Takao Nishioka, Hiromi Yoshimura	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology.	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali University of Sydney, Australia
15:20 15:40 16:00 16:20	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Junya Okida, Hideki Moriguchi, Takao Nishioka, Hiromi Yoshimura Sumitomo Electric Industries, Japan	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali University of Sydney, Australia
15:20 15:40 15:40 16:00 16:20	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Junya Okida, Hideki Moriguchi, Takao Nishioka, Hiromi Yoshimura Sumitomo Electric Industries, Japan Development of A New Cutting Fluid	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali University of Sydney, Australia Polishing Characteristics of CMP for Oxygen
15:20 15:40 16:00 16:20	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Junya Okida, Hideki Moriguchi, Takao Nishioka, Hiromi Yoshimura Sumitomo Electric Industries, Japan Development of A New Cutting Fluid Supply System for Near Dry Machining	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali University of Sydney, Australia Polishing Characteristics of CMP for Oxygen Free Copper with Manganese Oxide
15:20 15:40 16:00 16:20 16:20 	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Junya Okida, Hideki Moriguchi, Takao Nishioka, Hiromi Yoshimura Sumitomo Electric Industries, Japan Development of A New Cutting Fluid Supply System for Near Dry Machining Process	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali University of Sydney, Australia Polishing Characteristics of CMP for Oxygen Free Copper with Manganese Oxide Abrasives
15:20 15:40 15:40 16:00 16:20 16:20 16:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Junya Okida, Hideki Moriguchi, Takao Nishioka, Hiromi Yoshimura Sumitomo Electric Industries, Japan Development of A New Cutting Fluid Supply System for Near Dry Machining Process Motoki Yamashita, Yasuhiro Kakinuma, Tojiro	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali University of Sydney, Australia Polishing Characteristics of CMP for Oxygen Free Copper with Manganese Oxide Abrasives Ryunosuke Sato, Yoshio Ichida, Yoshitaka Morimoto,
15:20 15:40 16:00 16:20 16:20 16:40	Cutting (2) Chairperson: H. Huang University of Queensland, Australia High Speed Cutting of Titanium Alloy with PCD Tools Michiko Ota, Junya Okida, Takashi Harada, Naohiro Toda, Hitoshi Sumiya Sumitomo Electric Industries, Ltd., Japan Development of DLC Coated Tool for Cutting of Aluminum AlloyInfluence of deposition condition on cutting Kazushi Minaki, Koichi Kitajima, Yu Nakahira, Masashi Ohnishi, Takashi Sugimoto, Shun Kaminomura Osaka Institute of Technology, Japan Observations on Orthogonal Cutting ProcessesEffect of Friction between Tool and Work Material Junya Okida, Hideki Moriguchi, Takao Nishioka, Hiromi Yoshimura Sumitomo Electric Industries, Japan Development of A New Cutting Fluid Supply System for Near Dry Machining Process Motoki Yamashita, Yasuhiro Kakinuma, Tojiro Aoyama, Mituho Aoki	Fluids for machining (2) Chairperson: S. Salmon Next Generation Technology Group Inc., USA A Study on Airflow Field of Super-high Speed Pectination Grinding Wheel Based on PIV Yadong Gong, Yancheng Zhang, Hu Li, Wanshan Wang Northeastern University, China Actively Cooled and Activated Coolant for Grinding Brittle Materials Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China Spatial Distribution of Cooling Mist for Precision Grinding Y. Gao, J. Xin and H. Lai Hong Kong University of Science and Technology, China	CMP and semiconductor processing(3) Chairperson: A. Yui National Defense Academy, Japan Effect of Conditioning Parameters on Surface Non-uniformity of Polishing Pad in Chemical Mechanical Planarization N. Qin, D.M. Guo, R.K. Kang and Z.J. Jin Dalian University of Technology, China Achieving a damage-free polishing of mono- crystalline silicon A.Q. Biddut, L.C. Zhang, Y.M. Ali, Z. Liu University of Sydney, Australia Effect of polishing time and pressure on polishing pad performance A.Q. Biddut, L.C. Zhang, Y.M. Ali University of Sydney, Australia Polishing Characteristics of CMP for Oxygen Free Copper with Manganese Oxide Abrasives Ryunosuke Sato, Yoshio Ichida, Yoshitaka Morimoto, Kenji Shinizu University of University, Japan

18:00	
	Banquet
20:00	Å

<u>3 October, 2008</u>

8:30 | 17:30

Technical Tour and Optional Tour