

Schedule

November 6, 2013

17:00	Registration desk open (Registration only)
20:00	

November 7, 2013
Hotel Taikanso fuji hall

8:30	Registration desk open
9:00	Opening, Prof. Tsunemoto KURIYAGAWA
9:10	Plenary lecture Prof. Liangchi ZHANG
10:10	Plenary lecture Prof. Hideki ISHIDA
11:10	Plenary lecture Dr. Mike CONROY
12:00	

Technical Session

Hotel Taikanso

	Room A	Room B	Room C	Room D
13:00				
13:20	Advanced machine tool	Nano / micro measurement and intelligent instruments (1)	Evaluation of machine tool performance	Monitoring of machining process
14:00				
14:20	Coffee break			
14:30				
14:50	Laser processing (1)	Nano / micro measurement and intelligent instruments (2)	New developments in abrasive finishing technology	Other manufacturing-related technologies (1)
15:10				
15:30				
15:50	Coffee break			
16:00				
16:20	Laser processing (2)	Nano / micro measurement and intelligent instruments (3)	Electrical machining (1)	Other manufacturing-related technologies (2)
16:40				
17:00				
17:20	Coffee break			
17:30				
17:50	Laser processing (3)	M4 processes (micro / meso mechanical manufacturing) and micro-manufacturing for science	Electrical machining (2)	Other manufacturing-related technologies (3)
18:10				
18:30				
19:00	Banquet (Hotel Taikanso Taikan hall)			

November 8

8:30	Registration desk open			
	Room A	Room B	Room C	Room D
9:00				
9:20	Grinding technology (1)	Advanced machining technology (1)	Precision positioning and control technology (1)	Multi-axis control and Multi-tasking machining (1)
9:40				
10:00				
10:20	Coffee break			
10:30				
10:50	Grinding technology (2)	Advanced machining technology (2)	Precision positioning and control technology (2)	Multi-axis control and Multi-tasking machining (2)
11:10				
11:30				
11:50	Lunch			
13:00				
13:20	Digital design and digital manufacturing (CAD / CAM) (1)	Advanced machining technology (3)	Advanced Die & Mold Manufacturing Technologies, Rapid Technologies and Additive Manufacturing	Manufacturing systems and scheduling
13:40				
14:00				
14:20	Coffee break			
14:30				
14:50	Digital design and digital manufacturing (CAD / CAM) (2)	Advanced machining technology (4)	Analytical advancement of machining process	Ultra-precision machining
15:10				
15:30				
15:50				
16:10				

17:00	Registration desk open (Registration only)			
20:00				
<i>November 7, 2013</i> <i>Hotel Taikanso fuji hall</i>				
8:30	Registration desk open			
9:00	Opening, Prof. Tsunemoto KURIYAGAWA			
9:10	Plenary lecture Prof. Liangchi ZHANG "Dealing with Rough Surface in Manufacturing"			
10:10	Plenary lecture Prof. Hideki ISHIDA "Nature Technology - Creating a Fresh Approach to Technology and Lifestyle"			
11:10	Plenary lecture Dr. Mike CONROY "Using interferometry to measure steep slopes"			
12:00				
<i>Technical Session</i>				
	Room A	Room B	Room C	Room D
	Advanced machine tool	Nano / micro measurement and intelligent instruments (1)	Evaluation of machine tool performance	Monitoring of machining process
	Hirofumi SUZUKI (Chubu University)	Ryota KUDO (Osaka University)	Yukitoshi IHARA (Osaka Institute of Technology)	Kazuhito OHASHI (Okayama University)
13:00	A001 Influence of Motion Error of Feed Drive Systems onto Machined Surface Generated by Ball End-mill Yuki SATO, Ryuta SATO and Keiichi SHIRASE	B001 On-machine form measurement system of high precision ceramics parts by using a laser displacement sensor Daiki MATSUURA, So ITO, Takayuki MEGURO, Yuki SHIMIZU, Wei GAO, Shigeru ADACHI, Kyohei OMIYA	C001 Open-loop Tracking Interferometer for Three-dimensional Volumetric Error Measurement for Machine Tools Soichi IBARAKI and Goh SATO	D001 Measurement of temperature at bottom surface of hole in drilling of CFRP and titanium stack Masahiko SATO, Tomoyuki AOKI, Hisataka TANAKA and Satoshi TAKEDA
13:20	A002 Development of A High-Precision Hybrid CNC Machine Tool for In-Situ Fabricating A Biomedical-Slide Mold Shun-Tong CHEN, Chih-Hsien CHANG	B002 Construction of a surface profile measurement system by using a nanopipette ball probe with shear-force detection Issei KODAMA, So ITO, Wei GAO	C002 Estimation of Machine Tool Volumetric Error based on the Multi-lateration Principle using Machine Tool Rotary Axes –Two-dimensional case– Keisuke TSUBOI, Soichi IBARAKI	D002 Drill Wear Prediction with Features Extracted From the Static & Dynamic Components of Forces by Wavelet Packet Transform Using Back Propagation Neural Network Jie XU, Keiji YAMADA, Katsuhiko SEIKIYA, Ryutaro TANAKA, Yasuo YAMANE
13:40	A003 Investigation of End Mill Geometry when Helical Milling CFRP/ Al Stacks Erween Abd RAHIM, Zazuli MOHID, Ahmad Fahmi YUSUF, Mohd Ramadan HAMZAH, Hiroyuki SASAHARA, Rei KOYASU	B003 Design of a stylus displacement sensor with a low measuring force Sho SEKINE, Shinichi OSAWA, Yuki SHIMIZU, So ITO Wei GAO, Kouji KUBOTA, Akira KATO, Kuniaki ARAKAWA, Mutsumi YASUTAKE	C003 Error calibration of 5-axis machine tools by on-machine measurement system using a laser displacement sensor Yuu NAGAI, Soichi IBARAKI and Shizuo NISHIKAWA	D003 Development of Sensor-less Wear Monitoring Method by Means of Servo Information Based on Disturbance Observer Theory Ryo KOIKE, Yasuhiro KAKINUMA, Tojiro AOYAMA, and Kohei OHNISHI
14:00	A004 An Improved Approach to Real-Time Compensation of Machining Error Caused by Deflection of Two-Flute End Mill at Cutting Point Eiji KONDO, Hiroko KARASHIMA, Mitsuhiro NAKAO and Kenji SHIMANA	B004 Investigation of a femtosecond laser for measurement of angular displacement Yukitoshi KUDO, Siew-Leng TAN, Yuki SHIMIZU, So ITO, and Wei GAO	C004 Characteristics of thermal displacement of cylindrical grinding machines with rotation of wheel spindle -Influence of thermal displacement of wheel spindle and wheel spindle head- Shinji SHIMIZU, Yosuke UENO and Haruhisa SAKAMOTO	D004 Sensorless tool condition monitoring in buffing processes R. KUMAKURA, Y. KAKINUMA, T. ARAI, E. UCHISHIBA, M. MURAKAMI, T. SAGARA, T. AOYAMA
14:20	Coffee break			
	Laser processing (1)	Nano / micro measurement and intelligent instruments (2)	New developments in abrasive finishing technology	Other manufacturing-related technologies (1)
	Akira HOSOKAWA (Kanazawa University)	Yuki SHIMIZU (Tohoku University)	Libo ZHOU (Ibaraki University)	Masayoshi MIZUTANI (Tohoku University)
14:30		B005 A Long-Range Straightness Measurement with Motion Error Compensation Takuya KOMIYAMA, Hiroshi SAWANO, Hayato YOSHIOKA and Hidenori SHINNO	C005 Relationship between Polishing Force Distribution and Material Removal in MCF Polishing Process Huiru GUO, Yongbo WU, Masakazu FUJIMOTO and Mitsuyoshi NOMURA	D005 Effect of Mist Flow Pattern in Determining the Nozzle Distance in MQL using Particle Image Velocimetry Hemarani. DORAIRAJU, Zazuli MOHID and Erween Abd RAHIM
14:50	A006 Deformation analysis of Ti sheet in laser forming along the edge of the sheet Masayuki NUNOBIKI, Jinno HAYASHI, Koichi OKUDA and Hiroo SHIZUKA	B006 Coherent Imaging Algorithm of Super-Resolution Optical Inspection with Structured Light Shift Ryota KUDO, Hiroki YOKOZEKI, Satoru TAKAHASHI and Kiyoshi TAKAMASU	C006 Study on ultraprecision polishing of sapphire -Effects of crystal orientation on polishing characteristics- Mutsumi OKADA, Hiroyumi SUZUKI, Chikara INUKAI Toshikazu SUZUKI, Yasuo HIGASHI and Shinobu AOYAGI	D006 Investigation of Silicone Rubber's Cutting Characteristic during Keen WC Blades Indentation Pusit MITSOMWANG, Shigeru NAGASAWA, Yuichi IGARASHI, Hiroki KUROIWA, Yoshio FUKUSHIMA and Hironori HORIBATA
15:10	A007 One-Dimensional Numerical Analysis of Thermal Stress Propagation in Sheet Glass Generated by Pulsed Laser Irradiation Akira CHIBA, Souta MATSUSAKA, Hirofumi HIDAI, Noboru MORITA	B007 A study on the improvement of the Herbert pendulum hardness tester Tetsushi KABURAGI, Masaaki MATSUBARA, Ryousuke SUZUKI and Toshimitsu KOYAMA	C007 Uniform Polishing of Large Aspheric Lenses by Magnetic Field-Assisted Polishing D. KATO, H. SUZUKI and M. OKADA	D007 Tool Path Optimization for Drilling Process in CNC Machine Using Genetic Algorithm Haslina ABDULLAH, Rizauddin RAMLI and Dzuraidah Abd WAHAB
15:30	A008 Fundamental Study on Micro-welding of Copper by Green Pulsed YAG Laser Sunao TAKAI, Shin-ichi NAKASHIBA, Yasuhiro OKAMOTO, Akira OKADA, Tomokazu SAKAGAWA	B008 Enhancement of sensing resolution for minute refractive index change of micro flow by light interferometer using stochastic resonance P.D. TRAN, M. MICHIHATA, T. HAYASHI and Y. TAKAYA	C008 Study on Fixed Abrasive Polishing with Alumina Abrasive Grain for Single Crystal Si -Effects of Actual Contact Area and Grain Size- Ryunosuke SATO	D008 Automation of Soil Mixing for Soil Test by using Industrial Robot Towa TSUBOKAWA, Naoki ASAKAWA, Masato OKADA, Hiromi NOJIRI and Sayaka MATSUMURA
15:50	Coffee break			

November 8

8:30	Registration desk open				
	Room A		Room B	Room C	Room D
9:00	Grinding technology (1)		Advanced machining technology (1)		Precision positioning and control technology (1)
	Yongbo WU (Akita Prefectural University)		Tojiro AOYAMA (Keio University)		Hayato YOSHIOKA (Tokyo Institute of Technology)
9:00	A016 Statistical Analysis of Plane Honing for Silicon Carbide Wafers Keita SHIMADA, Chung-I KUO Kensuke TAKAHASHI, Masayoshi MIZUTANI and Tsunemoto KURIYAGAWA	B016 Laser-assisted Precision Machining of Yttria-stabilized Tetragonal Zirconia Polycrystals with Optimal Wavelength Yusuke ITO, Toru KIZAKI, Naohiko SUGITA and Mamoru MITSUSHI	C016 An ultra-sensitive angle sensor based on laser autocollimation for stage motion measurement Dai MURATA, Siew-Leng TAN, Yuki SHIMIZU, So ITO, and Wei GAO		
9:20	A017 Thermal Dressing of Metal Bonded Diamond Wheel by Nd:YAG Laser—Optimization of air-jet irradiation angle— Sho TAMAKI, Akira HOSOKAWA, Takashi UEDA, Tatsushi FURUMOTO	B017 A Method of Tool Engagement Temperature Estimation on Laser Assisted Micro Milling Z. MOHID, A.M.WARAP, R.IBRAHIM, M.I.S.ISMAIL and E.A.RAHIM	C017 Design and Testing of a Four-Probe Sensor Head For a Mosaic Grating Surface Encoder Takeshi ITO, Yuki SHIMIZU, WooJae KIM, Koji HOSONO, So ITO and Wei GAO	D017 Design of Motion Accuracy Measurement Device with Three Displacement Sensors for Machine Tool and Comparison of its Setting Method Masashi YAMAJI and Yukitoshi IHARA	
9:40	A018 Three-dimensional cutting edge distribution of abrasives on diamond grinding wheel working surface Libo ZHOU, Yutaro EBINA, Jun SHIMIZU, Tepppei ONUKI, Hirotaka OJIMA, and Takeyuki YAMAMOTO	B018 Evaluation of Machining Characteristics on CFRP Straight-Line Cutting Using Flexible Circular Saw Yohei YAMADA, Nobuyuki OSUMI, Kazuya HATAKEYAMA and Hiroyuki SASAHARA	C018 Study on Method for Evaluating Damping Capacity of Linear Rolling Bearing Yasunori SAKAI, Masaomi TSUTSUMI	D018 Development of CAPP System for Multi-tasking Machining of Complex Shapes Keiichi NAKAMOTO, Daichi HAMADA and Yoshimi TAKEUCHI	
10:00	A019 Small Hole Open Processing of Zirconia Ceramics Developed for Mold Tomoya OWAKI and Yukitoshi IHARA	B019 Effect of Finish Cutting on the Mechanical Properties of the Enhanced Layer Made by Frictional Stir Burnishing Yuusuke YAMADA, Yoshimasa TAKADA and Hiroyuki SASAHARA	C019 Investigation and reduction of crosstalk errors in a six-degree-of-freedom surface encoder for a planar motion stage Xinghui LI, So ITO, Hiroshi MUTO, Yuki SHIMIZU, Wei GAO and Songyi DIAN	D019 Sliding Mode Contouring Controller with a Nonlinear Sliding Surface and a Disturbance Observer for Five-Axis Machining Tasks A. EI KHALICK M., Naoki UCHIYAMA and Shigenori SANO	
10:20	Coffee break				
	Grinding technology (2)		Advanced machining technology (2)		Precision positioning and control technology (2)
	Keita SHIMADA (Tohoku University)		Hiroyuki SASAHARA (Tokyo University of Agriculture and Technology)		Atsushi MATSUBARA (Kyoto University)
10:30	A020 In-Process Monitoring of Machining State in Superfinishing Takashi ONISHI, Kazuhito OHASHI, Kohei HIGASHI, Shingo YAMASHITA, Takashiro IGUCHI and Shinya TSUKAMOTO	B020 Influences of cutting speed and tool rake angle upon the cutting characteristics of natural rubber Naoki TAKAHASHI and Jun SHINOZUKA	C020 Precision Positioning of a Long-stroke Scanning Electrostatic Force Probe for Profile Measurement of Large Amplitude Micro-structured Surface Zhigang JIA, Gaofa HE, Shigeaki GOTO, Keiichiro HOSOBUCHI, So ITO, Yuki SHIMIZU and Wei GAO	D020 Basic Study on Process Planning for Turning-Milling Center Based on Machining Feature Recognition Khusna DWIJAYANTI, Hideki AOYAMA	Keiichi NAKAMOTO (Tokyo University of Agriculture and Technology)
10:50	A021 Experimental investigation of material removal mechanism in ultrasonic assisted grinding of SiC ceramics using a single diamond tool Jianguo CAO, Yongbo WU, Huiru GUO, Masakazu FUJIMOTO and Nomura MITSUYOSHI	B021 Frank Wear Resistance and Tribological Properties of a Novel Cutting Tool with Micro Stripe Texture Tatsuya SUGIHARA and Toshiyuki ENOMOTO	C021 Development of Cr-N strain-gauge-type displacement sensor for positioning of micro-XY stage Yuxin PENG, Toyohiro AZUMA, Eiji NIWA, Junji KANEKO, Yuki SHIMIZU, So ITO and Wei GAO	D021 Development of CAM System for 3D Surface Machining with CNC Lathe Keigo TAKASUGI, Yoshitaka MORIMOTO, Yoshiyuki KANEKO and Katsuhiro NAKAGAKI	
11:10	A022 Surface Topography of Small Diameter Diamond Wheel in Ultrasonic Assisted Grinding Masakazu FUJIMOTO, Yongbo WU, Mitsuyoshi NOMURA, Hidenari KANAI and Masahiko JIN	B022 High Speed Machining of Stainless Steel Using Low-Pressure Jet Coolant Ryuta NAKATSUKASA, Mamoru HAYASHI, Tatsumi OHNO, Toshiyuki OBIKAWA, Takayuki KUMAKIRI and Hidebumi TAKAHASHI	C022 Magnetic Attraction Force-preloaded Aerostatic Guideway for High Speed Nano Positioning System Takumi TSUMURA, Hayato YOSHIOKA, Hidenori SHINNO and Hiroshi SAWANO	D022 Friction compensation in contouring control for biaxial feed drive systems and experimental verification Bui Dinh BA, Naoki UCHIYAMA, Shigenori SANO	
11:30	A023 Investigation of Grinding Temperature of Carbon Fiber Reinforced Plastics Ryohji FUJIHARA, Kazuhito OHASHI, Mitsuji YOSHIKAWA, Shinichiro KUBOTA, Takashi ONISHI and Shinya TSUKAMOTO	B023 In-process Observation of Workpiece Deformation in Elastomer Endmilling Koji TERAMOTO, Shohei KUDO and Yuichiro FURUYA			
11:50	Lunch				

	Digital design and digital manufacturing (CAD / CAM) (1)	Advanced machining technology (3)	Advanced Die & Mold Manufacturing Technologies, Rapid Technologies and Additive Manufacturing	Manufacturing systems and scheduling	
	Keiichi SHIRASE (Kobe University)	Koji TERAMOTO (Muroran Institute of Technology)	Tsunemoto KURIYAGAWA (Tohoku University)	Toru EGUCHI (Hiroshima University)	
13:00	A024 Development of Operation Interface for Turning Machine Using Haptic Device Raiyo OKA, Koichi MORISHIGE	B024 A Study on Tool Geometry Optimization in Drilling of Lead-free Brass Using Micro-Drill Hideharu KATO, Shingo NAKATA and Noriaki IKENAGA, Hiroaki SUGITA	C024 Fabrication of Lens Array Mold by Electrical Discharge Machining Hideo TAKINO, Takahiro HOSAKA, Keisuke SAKURAI, and Keisuke OGURA	D024 Analysis of Kinematic Motion Deviations of Machining Centers Based on Geometric Tolerances Atsushi TAKAHASHI, Arata YOSHIDA, Wiroj THASANA, Nobuhiro SUGIMURA, Yoshitaka TANIMIZU and Koji IWAMURA	
13:20	A025 Experimental Verification of Ball End-milling Condition Decision Support System Applying Hierarchical and Non-hierarchical Clustering Methods Hiroyuki KODAMA, Toshiki HIROGAKI, Eiichi AOYAMA, Keiji OGAWA	B025 Fundamental study for development of self-sharpening tool in CFRP machining Satoru MAEGAWA, Shinya HAYAKAWA, Fumihiro ITOIGAWA and Takashi NAKAMURA	C025 A Possibility of 3D Models Created by Rapid Prototyping Technology For Informed Consent Hirohisa NARITA and Toshimasa TAKAHASHI	D025 Comprehensive representation of feasible combinations of alternatives for dynamic production planning using Zero-suppressed Binary Decision Diagram Keita TAKAHASHI, Masahiko ONOSATO, Fumiki TANAKA	
13:40	A026 Burr Prediction Method in End Milling Sothea KRUY, Hideki AOYAMA, Kentaro OHTA, Noriaki SANO	B026 Prevention of Depth-of-Cut Notch Wear by Optimization of Chamfer Processing for Tool Edge in Inconel718 Cutting Hiroki KIYOTA, Fumihiro ITOIGAWA, Yu HASEGAWA, Kiichi MEGURO and Takashi NAKAMURA	C026 Novel selective laser melting solution for metal additive manufacturing using vacuum and a quasi continuous wave laser Shizuka NAKANO, Masashi HAGIWARA, Toru SHIMIZU, Yoshinori HORIBA, Naoko SATO, Kunio MATSUZAKI and Masahiro SASA	D026 A Work Instruction System Based on an Analysis of Learning Processes for Assembly Cells Yoshitaka TANIMIZU, Satoru ISHII, Takashi YOKOTANI, Koji IWAMURA, Nobuhiro SUGIMURA	
14:00	A027 Development of Automatic Machining Process Deciding System Based on 3D-Model Jiang ZHU, Saori MUTO, Tomohisa Tanaka and Yoshiro SAITO	B027 Clarification of relationship between fiber orientation and tool wear in milling of CFRP Daichi MURAKAMI, Takeshi YASHIRO and Hiroyuki SASAHARA	C027 Fabrication of replica nickel molds containing carbon nanotube by thermal nanoimprint Tsunehisa SUZUKI, Mutsumi KATO, Takeshi MATSUDA, Seiya KOBAYASHI	D027 Job Shop Scheduling with Capacity Adjustment -An efficient search method using the mixture of GA and priority rule and its performance evaluation using Lagrangian relaxation method- Toru EGUCHI, Mitsunobu YODA, Yusuke YAMAMOTO and Takeshi MURAYAMA	
14:20	Coffee break				
	Digital design and digital manufacturing (CAD / CAM) (2)	Advanced machining technology (4)	Analytical advancement of machining process	Ultra-precision machining	
	Koichi MORISHIGE (The University of Electro-Communications)	Naohiko SUGITA (The University of Tokyo)	Jun SHINOZUKA (Yokohama National University)	Hideo TAKINO (Chiba Institute of Technology)	
14:30	A028 Motion Path Evaluation based on Energy Consumption of Feed Drive System in NC Machine Tool Akio HYASHI, Yuta INOUE, Ryuta SATO and Keiichi SHIRASE	B028 Influence of carbon fiber direction and coolant on end milling of CFRP Tasuku HIGAINO, Tojiro AOYAMA, and Hitoshi OGAWA	C028 Evaluation of tool damage in rotary machining process using numerical simulation technique Masaki OKUDA, Hiroyuki SASAHARA, Wataru TAKAHASHI, Satoshi KUBOTA, Soo-Young KIM	D028 Effect of WC Particle Size on Surface Roughness in Ultra-Precision Diamond Cutting of Tungsten Carbide Hideaki IKEJIMA, Koichi OKUDA, Hiroo SHIZUKA and Masayuki NUNOBIKI	
14:50	A029 A Concept of Total Removal Volume Feature in Selecting Machining Sequence for Generative Automated Process Planning Mohammad Miradj ISNAINI, Ryuta SATO and Keiichi SHIRASE	B029 Influence of Cutting Edge Shape of Ball-nose End Mill on Machining of CFRP Shigehiko SAKAMOTO and Fukuhito NAGATA	C029 Cutting Force Prediction in Drilling of Carbon Fiber Reinforced Plastics Shoichirou TAMURA and Takashi MATSUMURA	D029 Study on process analysis method for NC multitasking machine tools Yoshitaka MORIMOTO, Hiroyuki YAMAMOTO, Tadashi YAMAMOTO, Tomonori ARAI and Masahiko KAKUMOTO	
15:10	A030 A Simulation of Kinematic Deviations of Boring Processes on CNC Machining Centers Wiroj THASANA, Atsushi TAKAHASHI, Arata YOSHIDA, Nobuhiro SUGIMURA, Yoshitaka TANIMIZU and Koji IWAMURA	B030 Influence of Stress field under Condition of Ultrasonically assisted Orthogonal Cutting Chihiro YAMAGUCHI and Hiromi ISOBE	C030 Study on Evaluation of Cutting Performance of Ball End Mill with Straight-line Path Method for Inclined Surface Using 3D-CAD (Influence of Feed Direction on Cutting Mechanism) Tsuyoshi FUJITA and Hiroyasu IWABE	D030 A micro optical probe for evaluation of tool edge geometry SungHo JANG, Yuki SHIMIZU, So ITO and Wei GAO	
15:30	A031 Development of Orthros, an Evaluation System for Free Curved Plate Thickness with a Robot - Selection of Representative Points for Appropriate Interpolation- Yurie OKUGAWA, Naoki ASAKAWA and Masato OKADA	B031 Theoretical Models, Instrumental Implementation and Preliminary Result of Ultrasonic Assisted Turning Rasidi IBRAHIM, Suraidah SUFRING, Yusdi YUSOF, Wang CHAO	C031 Detection of the Burn Mark on the Plastic Surface Using Image Analysis –Fundamental study for reduction the environmental impact by unpainted plastic products– Takashi SUDA, Hiroki KUROIWA, Yoshio FUKUSHIMA, Takashi SUZUKI and Fumio TERAUCHI	D031 Self-Evaluation of Tool Edge Contour of a Single Point Diamond Tool on a Force-Controlled Fast Tool Servo Yuan-Liu CHEN, Yuki SHIMIZU, So ITO, Wei GAO and Bing-Feng JU	
15:50		B032 Development of fixed diamond abrasive pellet for final finishing of mono-crystalline sapphire wafers Yoshiaki TASHIRO, Libo ZHOU, Jun SHIMIZU, Noriaki SHINODA, Yoshinori MITSUI		D032 Effects of the cutting edge shape on the brittle cracking in the glass cutting -Effects of the deviation of the roughness curve vertex- Takenori ONO	
16:10					