OS06 Advanced grinding technologies OS06-01 Crystallographic Analyzations of Subsurface Damaged Layers in Wide-bandgap Semiconductor Wafers Using High-Resolution Micro-Raman Tomographic Imaging Teppei Onuki, Kvo-ichiro Shiba, Yusuke Mogaki, Libo Zhou, Hirotaka Ojima and Jun Shimizu OS06-02 Physics informed generative neural network of multireflection interference fringes for optical thickness gauge Teppei Onuki, Takeshi Mochizuki, Yuta Toshima, Hirotaka Ojima, Jun Shimizu and Libo Zhou OS06-03 Wear State Identification of Ordered Grinding Wheel for C/SiC Composites Based on DBO-ELM Bing Chen and Ye Guo Hunan University of Science and Technology OS06-04 Application of coarse grained grinding wheels for precision grinding of glassy carbon Bernhard Karpuschewski, Carsten Heinzel, Oltmann Riemer, Kai Rickens and Barnabas Adam Bremen University, Leibniz-IWT OS06-05 Creep Feed Grinding Characteristics of Maraging Steel Using Porous Vitrified cBN Wheel Masakazu Fujimoto and Haruya Tanaka Ashikaga University OS06-06 Investigation of the Wheel Vibration and Surface Integrity by In-situ Magnetic Field Assisted Parallel Ultra-Precision Grinding of Inconel 718 Te Zhao, Tengfei Yin, Yi Tan, Denghui Li and Suet To The Hong Kong polytechnic university OS06-07 Experimental investigation of the impact of machining conditions on AE signal in grinding process Zongwei Ren and Hayato Yoshioka The University of Tokyo OS06-08 Towards Uniformity and Efficiency: Managing the Free-Form Surface Polishing through Kinematic Analysis and Trajectory Planning Zipu Yan and Liangchi Zhang Southern University of Science and Technology OS06-09 Exploration of grinding heat diffusion pattern within Ti-6Al-4V workpieces Yujun Wu and Weimin Lin Gunma University

OS06-10 Study of surface integrity on high-speed grinding of iron metal Juan Chen, Bi Zhang and Suet To The Hong Kong Polytechnic University OS06-12 Deformation and Material Removal Mechanisms in Nano-Scratching of Single-Crystal Aluminum Nitride Haoxiang Wang, xiaoguang Guo, Zhigang Dong, Renke Kang and Shang Gao OS06-13 Possibilities of Reduction in Sliding Friction by Addition of Ultra Fine Bubbles to Coolant Koju Hiraki, Ryuta Isizumi, Renma Sumiyoshi, Takeshi Watanabe, Yuki Hara, Nobuyuki Izuhara, shigeru Taniguchi, Shoko Yamada and Ryoichi Yagami Kyushu Institute of Technology OS06-14 Development of abrasive grain detection system by machine learning Kunon Hayashi, Atsuhiko Sawada, Hirotaka Ojima, Libo Zhou and Teppei Onuki Ibaraki University OS06-15 Effect of Ultra-fine bubbles coolant on SF truing of resin bonded coarse diamond wheel Muzhi Li, Shinichi Nimomiya, Satoshi Anzai, Tetsuo Nomura and Manabu Iwai NIPPON INSTITUTE OF TECHNOLOGY OS06-16 Evaluation on fine cutting edges of PCD grinding tool and mirror finishing surface on SiC substrates Haruto Konishi, Takashi Fujita, Ryota Fukunaga, Yuki Izutani, Yasuo Izumi and Junji Watanabe OS06-17 Ionic conductivity and mechanical properties of electrolytic grinding tool consisting of diamond/PEO solid polymer electrolyte Taiyo Nakamura, Tsunehisa Suzuki, Tatsuya Fujii, Mitsuyoshi Nomura and Takashi Mineta Akita Prefectural University OS06-18 Experimentally backed simulation of textured CBN grinding wheels for an enhanced performance Vahid Mousavi, Suzan Behrouzbaraghi and Erhan Budak

OS06-19 Effect of CNT addition on the curing process in molding of CNT composite phenolic resin bonded grinding tools Ryoga Tsuiki, Tsunehisa Suzuki, Tatsuya Fujii, Mitsuyoshi Nomura and Tomoya Abe Akita Prefectural University OS06-20 Direct observation of the clogging development during the grinding process Haonan Ren, Toru kizaki, hiroyuki Kamura, Takayuki Nishizawa, Chao Wang and Naohiko Sugita University of Tokyo **OS06-21** Fretting wear mechanism of DZ125 surface created by WEDM Haohan Zhang, Jing Ni and Zhen Zhang Hangzhou Dianzi University