Tuesday, May 19th		
start	end	[Conference venue]
16:00	20:00	Registration Desk Opens
18:00	20:00	Welcome Reception (Room1)

Wednesday, May 20th				
Program:		**Opening Remarks, Plenary Lecture 1&2**		
start	end	[Room 1]		
8:00		Registration Desk Opens		
8:30	9:00	Opening Ceremony incl. Round Table		
9:00	9:30	Plenary Lecture 1 (Prof. Dragos Axinte)		
9:30	10:00	Plenary Lecture 2 (Mr. Nobuaki Osawa)		
10:00	10:20	Coffee Break		
Program:		**Technical Session 1**		
start	end	[Room 1] Chair:	[Room 2] Chair:	[Room 3] Chair:
10:20	10:40	3D numerical modelling of residual stresses induced in surface milling *Joel Rech, Frédéric Valiorgue, Loic Polly, Marc Raffestin*	Femtosecond Laser Processing of 3D-Printed PETG for Sensor Substrates and Coating Preparation: Parameter Optimisation and Mechanical Testing *Shuchen Zuo, Mohamed Hassan, Cameron Pulham, Paul Mativenga, Olivier Allegre*	Cloud-Edge-Device Collaborative Architecture for Online Surface Roughness Grade Recognition of Workpieces *Jiajie Shao, Zhiwen Huang, Zhuoyuan Zheng, Dianjun Fang, Jianmin Zhu*
10:40	11:00	Influence of Tool Wear-Induced Changes on the Cutting Edge Microgeometry and Resulting Surface Integrity in Micromilling of AISI H11 Tool Steel *Timo Platt, Malte Sobkowiak, Dirk Biermann*	Ultrafast Laser Ablation on Biodegradable PLA/PCL Composite Tubes for Biomedical Application *Mohit Agarwal, Alok Srivastava, Madhur Pandya, Priya Vashisth, Naresh Bhatnagar*	A Single-Particle Layer Approach for Micromechanical Characterization: Nanoindentation and Fracture Analysis of Cathode Secondary Particles *Andreas Mayr, Filip A. Dorau, Johannes Lindenblatt, and Rü diger Daub*
11:00	11:20	Study on the Surface Integrity and Tool Wear in Induction-Assisted Milling of γ-TiAl Alloys *Tao Fan, Changfeng Yao, Liang Tan, Qihui Cheng*	Rapid creation of self-cleaning titanium alloy surface using laser surface texturing *Dinesh Kumar S, Kishor Kumar Gajrani*	High-temperature Anti-adhesion and Low-friction Performance of Planar Glassy Carbon Mold with Nanopore Arrays *Wanying He, Peng Yao, Qilin Wang, Dongkai Chu, Shuoshuo Qu, Chuanzhen Huang*
11:20	11:40	Subsurface deformation and residual stress analysis during micromilling of Ti6Al4V using coated and uncoated tools *Maria Clara Coimbra Gonçalves, Gemma Harling, Mihail Mandazhiev, Matthew Brown, Rob Alsters, Rachid M'Saoubi, Hassan Ghadbeigi*	Nanometer-Scale Polishing of Diamond by Pulsed Laser Using Feedback from Interferometric Topography Measurement *Yuta Teshima, Reina Yoshizaki, Yanming Zhang, Shogo Kitamura, Yangjin Kim, Kenichi Hibino, Kentaro Furuichi, Iori Watanabe, Toshihisa Hikita, Naohiko Sugita*	Integrity of hard-coated titanium surfaces under simulated regolith erosion tests for space exploration *Saket Kumar Gupta, Shahit Yadav, Sarvesh Kumar Mishra*
11:40	12:00	Evaluation of the achievable surface topographies, dimensional and geometrical tolerances in hybrid manufacturing of PLA parts by Fused Filament Fabrication (FFF) and milling *Laurent Spitaels, Valentin Dambly, Margaux Lorenzoni, Gregory Martic, Cathy Delmotte, Enrique Juste, Édouard Rivière-Lorphèvre, Fabrice Petit, Francois Ducobu*	Surface Formation Mechanism study of Water Jet-Guided Laser Machining of Single-crystal Nickel-Based Alloys *Tiancheng Ai, Wei Zhang, Liming Lei, Dongdong Xu, Wentao Qin, Zhirong Liao*	Impact of ignition pulse voltage and acetylene gas flow on tribological and mechanical properties of hard diamond-like carbon coatings *Martin Sahul, Barbora Ludrovcová, Marián Haršáni, Margita Ščasná, Martin Truchlý*
12:00	14:00	Lunch Break		
Program:		**Technical Session 2**		
start	end	[Room 1] Chair:	[Room 2] Chair:	[Room 3] Chair:
14:00	14:20	Surface Integrity and Fatigue Response of Lamellar Ti6Al4V Alloy after Cryogenic Machining *Rachele Bertolini, Andrea Stramare, Alberto Campagnolo, Andrea Ghiotti, Stefania Bruschi*	Material removal and surface formation mechanism in laser assisted milling of Cf/SiC *Zifu Shen, Zhi Guo, Tiancheng Ai, Dongdong Xu*	Influence of deposition parameters on tribo-mechanical properties of ta-C coatings: statistical approach *Barbora Ludrovcová, Martin Sahul, Marián Haršáni, Margita Ščasná, Martin Truchlý, Milena Kubišová*
14:20	14:40	Influence of the engagement condition on surface integrity in micromilling of cemented carbide *Christoph Paul Jäckel, Nils Schmidt, Timo Platt, Nelson Filipe Lopes Dias, Wolfgang Tillmann, Dirk Biermann*	Influence of laser parameters on microcracking during laser surface remelting on additively manufactured multi-material components *Mugilan T, Sumit Gusain, Sarvesh Kumar Mishra*	Feature-based and angular analysis for surface integrity assessment *Matthias Eifler, Alexander Müller, Jörg Seewig*
14:40	15:00	Surface Quality in Milling of Thin-Walled Wire Arc Additive Manufactured Inconel 718 Using Conventional and Modified Tool Geometries *František Jurina, Marek Vozár, Boris Pätoprstý, Tomáš Vopát*	Machining-Induced Surface Integrity of Ti-6Al-4V Produced by Selective Laser Sintering: Role of Process Parameters and Cooling Conditions *Maria Rosaria Saffioti, Serafino Caruso, Giovanna Rotella, Domenico Umbrello*	Diagnosing Ion Beam Cleaning Ignition Failures in PVD Processes Using Interpretable Machine Learning on Kaufman-type Ion Sources for Optical Thin-Film Coatings *Alexander Weilacher, Valerius Abb, Alexander Schneider, Martin Barth, Tobias Reichenstein, Jörg Franke*
15:00	15:20	Surface integrity of machined 2024-T351 aluminum: Effects of cutting tool nose geometry and targeted minimum quantity fluid(TMQF) *Trevor K. Shoemaker, C.S. Rakurty, A.K. Balaji*	Microlens Generation on 4H-SiC Using In-situ Laser-assisted Diamond Cutting *Yuhan Li, Wai Sze Yip , Suet To*	Modeling Grain Size Evolution under Thermomechanical Loads during Machining Using a Meshless Approach *Hui Liu, Pedro Henrique de Carvalho, Anna Kibireva, Markus Meurer, Thomas Bergs*
15:20	15:40	Coffee Break		
start	end	[Room 1] Chair:	[Room 2] Chair:	[Room 3] Chair:
15:40	16:00	An Improved Johnson-Cook Model for Residual-Stress Prediction and Process Optimization in Ti-6Al-4V Milling *Fangjia Liu, Daiquan Wang, Dong Zhang, Xiao-Ming Zhang, Han Ding*	Laser interference lithography with a spatial light modulator *Nozomu Takahiro, Ryotaro Banno, Yuki Shimizu*	Strain rate effect on the deformation behavior of gallium nitride during nanoindentation tests *Weihai Huang, Jiwang Yan*
16:00	16:20	Milling Deflection Simulation via Voxel-based Material Removal and FEA Models *Yuanjie Sun, Ting Yang, Dong Zhang, Xiao-Ming Zhang, Han Ding*	Surface Quality and Material Response in Laser Machining of Oxide-Oxide Ceramic Matrix Composites *Liam Mackenzie, Mahfuza Parvin, Aneta Chrostek-Mroz, Stephen Dondieu, Sundar Marimuthu, Priyanka Ghosh*	Influence of nitriding on the surface integrity of mold steel processed by shape adaptive grinding (SAG) *Takahiro Kaga, Yuichi Kurane, Anthony Beaucamp*
16:20	16:40	Influence of Cutting Parameters on the Induced Residual Stress Profile and Resulting Part Distortion in Peripheral Milling of Ti-6Al-4V *Markus Diegel, Maurice Walther, Markus Meurer, Thomas Bergs*	A Framework for Energy Efficient and Low Carbon Laser Cleaning Processes *Muhammad Tajuddin Reduan, Paul Mativenga*	Surface characteristics in rigid and adaptive belt grinding of Inconel 718 *Ashwani Pratap, Anthony Beaucamp*
16:40	17:00	Impacts of Cutting Parameters on Frictional Behaviors of the Machined Surface in Machining of TC21 Alloy *Yuhang Sun, Chenggang Liao, Hongguang Liu, Xin Liu, Jun Zhang, Wanhua Zhao*	Fabrication of Wear-Resistant Surfaces on Ti-6Al-4V alloy by Laser-Induced Wet Surface Treatment *Atsushi Ezura, Kazutoshi Katahira, Jun Komotori*	Surface integrity pivoting in an integrated design and processing for high-performance manufacturing of equipment *M.K. Lei, D.M. Guo*
17:00	17:20	Surface and near-surface edge integrity on additively manufactured multi- material IN718-SS316L under cryogenic micro-milling *Sumit Gusain, Shivam Mishra, Sarvesh Kumar Mishra*	Laser-induced Surface Integrity Evolution of Amorphous Silicon *Huakun Zhong, Ziyuan Huang, Zhiyu Zhang, Tingting Zou, Hu Huange, Jiwang Yan, Jianjun Yang, Xuejun Zhang*	Surface properties of carbon fiber reinforced PEEK composites for a long-term water absorption at high temperature and high pressure *W.G. Wang, Y.P. Li, S.H. Liu, W.X. Suo, M.Q. Li, M.K. Lei*

Thursday, May 21st				
Program:		**Plenary Lecture 3 & 4**		
start	end	**[Room 1]**		
8:30		Registration Desk Opens		
9:00	9:30	Plenary Lecture 3 (Prof. Brigid Mullany)		
9:30	10:00	Plenary Lecture 4 (Prof. Volker Schulze)		
10:00	10:20	Coffee Break		
Program:		**Technical Session 3**		
start	end	**[Room 1] Chair:**	**[Room 2] Chair:**	**[Room 3] Chair:**
10:20	10:40	Experimental and numerical analysis of surface integrity in high-speed milling of Inconel 718 with ceramic tools *Necati Uçak, Marcos Ribeiro, Jose Outeiro*	Surface Topography Evolution in Laser-based Directed Energy Deposition on Porous Metallic Substrates *Jacques Platz, Johanna Steiner-Stark, Lars Bachert, Jan C. Aurich*	Surface topography evolution in robotic electrochemical-mechanical polishing process of 316L stainless steel *Sangil Han, Daniel Krzak, Mehmet Cici, Thierry André, Ferdinando Salvatore, Joël Rech*
10:40	11:00	Investigation of the relation between the built-up edge formation and chip condition in dry orthogonal cutting of C45 steel *Ahmed Abotoor, Ramazan Hakki Namlu, Sabino Ayvar-Soberanis, David Curtis, Pete Crawforth, Sadik Engin Kilic, Paul Mativenga, Zekai Murat Kilic*	Influence of different contour scanning methods in laser powder bed fusion on the machinability of additively manufactured AlSi10Mg *Johanna Steiner-Stark, Benjamin Kirsch, Jacques Platz, Jan C. Aurich*	Numerical and experimental investigation on the effect of process parameters in machine hammer peening of AISI 4140 *Zhaoyu Chen, Matthias Hettig, Jens Sölter, Daniel Meyer*
11:00	11:20	Investigation into connection mark formation in titanium alloy blisk milling-grinding combined process *Wanqi Xu, Tingyue Bai, Guangyuan Yu, Shuai Chen, Zhitong Chen, Zhenglong Fang*	Evaluation of Ti-6Al-4V laser powder metal deposition (DED-LB/p) for weld repair based on surface integrity investigations *Jonas Holmberg, Ceena Joseph, Johan Fast Berglund, Peter Ottosson, Ramin Moshfegh, Stefan Karlsson, David Lindell*	Influence of Cutting Edge Radius on Subsurface Work-Hardening in Machined Inconel 718 Nickel-Based Alloy *Vopát Tomáš, Sahul Martin, Truchlý Martin*
11:20	11:40	Process–Structure–Wetting Relationships in Milled NiTi Surfaces *Nataliia Balytska, Lars Penter, Oleksiy Myronyuk, Steffen Ihlenfeldt*	Surface integrity and functional performance of additively manufactured M789 maraging steel for mould applications *Mirko Sinico, Jerika Lamas, Kristof Driesen, Jitka Metelkova, Selma Hansal, Michael Doppler, Jeroen Tacq, Brecht Van Hooreweder*	Impact of burnishing on surface integrity of AISI 316Ti stainless steel *Larissa Juliana Sirtuli, Xenia Stergiopoulou, Susanne Norgren, Volodymyr Bushlya*
11:40	12:00	Effect of cutting fluid on subsurface characteristics in milling of stainless steel *Takashi Matsumura, Iman Farhana Binti Juanih, Shoichi Tamura*	*Impact of Material Gradation and Hatching on Surface Characteristics of Functionally Graded Materials Consisting of 316L/17-4PH Manufactured via Directed Energy Deposition* *Lars Bachert, Jacques Platz, Jan C. Aurich*	Systematic Analysis of Abrasive Media Geometry and Bond Effects on Surface and Edge Conditioning in Unguided Vibratory Finishing of WC-Co Cemented Carbides *Fabian Brüssel, Peter Breuer, Sebastian Prinz, Thomas Bergs*
12:00	14:00	Lunch Break		
Program:		**Technical Session 4**		
start	end	**[Room 1] Chair:**	**[Room 2] Chair:**	**[Room 3] Chair:**
14:00	14:20	Correlation between Residual Stresses and Deformation Depths in the Turning of DA718 *Nicklas Gerhard, Marina Kemperle, Maurice Walther, Markus Meurer, Thomas Bergs*	Surface integrity and defects in stainless steel-Inconel 718 bi-metal cold metal transfer wire arc additive manufacturing Joseph Betts, Ishrat Fairoz, Alborz Shokrani	Influence of Process Input Parameters on the Reproducibility of Microstructures on Stainless Steel 304 in Pulsed Electrochemical Machining *Richard Petermann, Steven Nickel, Lars Berg, Pascal Clauß, Gunnar Meichsner, Matthias Hackert-Oschätzchen*
14:20	14:40	Influence of the CO2 mass flow rate on the surface integrity and dimensions of cryogenically hard turned AISI 52100 *Felix Grossmann, Robin Lemmens, Benjamin Kirsch, Jan C. Aurich*	Laser Remelting of directed energy deposited (DED) Ti6Al4V: surface refinement, microstructural evolution, and hardness enhancement *Shivam Kumar, Saket Kumar Gupta, Sarvesh Kumar Mishra*	Influence of Surface Roughness on the Tribological Performance of 3D Printed CF/PEEK Gear and its Wear Mechanism *Guang Cheng, Hanlin Zheng, Qingwen Dai, Marvin May, Nanya Li*
14:40	15:00	Influence of machining parameters and cutting tool materials on surface layer properties and machinability in face turning of a nickel-based superalloy *Lars Langenhorst, Mattis Lieder, Jens Sölter, Gregor Kappmeyer, Bernhard Karpuschewski*	Late fusion for resource-efficient analysis of DED process parameters on coating characteristics *Felix Finkeldey, Shiho Takemura, Motoki Nagata, Petra Wiederkehr, Yasuhiro Kakinuma*	3D Measurement of Abrasive Particles and Analysis of Wear-Induced Effects on Surface Roughness in Abrasive Flow Machining *Stefanie Stöckel, Frank Segel, Sophie Gröger, Eckart Uhlmann, André Rozek*
15:00	15:20	Introduction of compressive residual stresses by Hammering Turning *Jannik Schwalm, Volker Schulze, Frederik Zanger*	A Synergistic Approach to Microstructure and Residual Stress Management Using Ultrasonic Vibrations in Laser Metal Deposition of Steel 1.4404 *Mohammad Rabiey, Hélder Puga, Miodrag Prokic, Anthony Beaucamp*	Wettability Analysis of Non-textured and Textured Thin-Walled Stainless Steel Tubes Fabricated using Electrochemical Micromachining *Naisarg Sagathiya, Vyom Sharma, Janakarajan Ramkumar*
15:20	15:40	Coffee Break		
start	end	**[Room 1] Chair:**	**[Room 2] Chair:**	**[Room 3] Chair:**
15:40	16:00	Surface and subsurface characteristics of Ti-6Al-4V in a sequence of turning and deep rolling *Nicole Mensching, Daniel Meyer*	Surface Integrity in 17-4PH Binder Jetting parts subjected to Contact Fatigue testing *Matheus Rubik, Guilherme Guimarães, Izabel Criscuolo, Ronnie Rego*	Influence of Drag Finishing Parameters on the Uniformity of Cutting Edge Radius Along the Tool Axis for Carbide Milling Tools *Boris Pätoprstý, Tomáš Vopát, František Jurina, Marek Vozár*
16:00	16:20	The effect of dynamic tool engagement on tool wear and surface integrity in diamond turning of titanium alloys *Jian Weng, Linhe Sun, Suet To, Wai Sze Yip*	Utilizing intermediate feature value correlation for efficient parameter identification in high-speed directed energy deposition *Helena Wexel, Keisuke Nagato, Frederik Zanger*	Surface Integrity of Sapphire Micro-Optics Finished by Mechanical Polishing *Tarlochan Singh, Brock Taylor, Bona Burlison, Anthony Beaucamp*
16:20	16:40	Ultrasonic Vibration-assisted Turning of Aerospace-grade Titanium Alloy: Surface Quality Characteristics and Tool Wear Morphology *Sirui Yi, Liyu Wang, Songmei Yuan*	The Effect of Printing Parameters and Post-Processing on Surface Roughness and Mechanical Properties of PLA and Recycled PLA Parts Fabricated by Extrusion-Based 3D Printing *Emrah Güneşsu, Emre Taşcıoğlu, Yusuf Kaynak*	*Development and Applications of Magnetic Field Assisted Mass Polishing* *Rui Gao, Chunjin Wang, Yee Man Loh, Dawei Luo, Chi Fai Cheung, Lai Ting Ho*
16:40	17:00	Comparative evaluation of linear regression and neural network models for estimating surface hardness and residual stress in turning of carbon steels *Kazunori Kohara, Yasuhiro Imabeppu, Naruhiro Irino, Norikazu Suzuki*	Investigation on the correlation between spatter behavior and single-track surface geometry in laser power bed fusion *Yudai Yokota, Yoshiki Sakai, Kotaro Kaneko, Keisuke Nagato*	Power-based process signature for surface and form accuracy in wire EDM *Yifei Guo, Yuebin Guo*
17:00	18:00	Transfer		
18:00	20:00	Banquet (Hyatt Regency Yokohama)		

Friday, May 22nd				
Program:		**Plenary Lecture 5 & 6**		
start	end	**[Room 1]**		
8:30		Registration Desk Opens		
9:00	9:30	Plenary Lecture 5 (Dr. Naruhiro Irino)		
9:30	10:00	Plenary Lecture 6 (Prof. Albert Shih)		
10:00	10:20	Coffee Break		
Program:		**Technical Session 5**		
start	end	**[Room 1] Chair:**	**[Room 2] Chair:**	**[Room 3] Chair:**
10:20	10:40	Comparison of MQL versus dry machining on the surface integrity and the fatigue strength of a drilled AA2024-T351 aluminium alloy *Rosalinda Solis, Raphaël Lorain, Frédéric Valiorgue, Joel Rech*	Surface Integrity of Ground AISI4140: A Comparison of Quenched and Tempered and Induction Hardened States *Gerrit Kuhlmann, Meik Baschak, Nikolai Guba, Tobias Hü semann, Carsten Heinzel*	
10:40	11:00	How fabrication route and particle size influence the drilling response of Al-SiC metal matrix composites *Edoardo Ghinatti, Rachele Bertolini, Andrea Ghiotti, Stefania Bruschi*	Flow Separation Effects on Surface Integrity in Abrasive Flow Machining *Eckart Uhlmann, André Rozek, Elias Berg, Sophie Gröger, Stefanie Stöckel, Sven Fiebig*	Plasma-modification characteristics of OVPE GaN wafer *Rongyan Sun, Tong Tao, Shigeyoshi Usami, Yuji Ohkubo, Masayuki Imanishi, Yusuke Mori, Kazuya Yamamura*
11:00	11:20	Study of the impact of robot posture and trajectory compensation on the drilling quality of Al 6082 T6-GFRP stacks in robotic drilling operations *Thomas Beuscart, Valentin Dambly, Edouard Rivière-Lorphè vre, Gorka Ortiz-de-Zarate, Pedro José Arrazola, François Ducobu*	Investigation of Surface Integrity Changes in Multistage Grinding with Interim Thermally Induced Material Modifications *Gerrit Kuhlmann, Lars Langenhorst, Matthias Knauer, Nikolai Guba, Tobias Hüsemann, Carsten Heinzel*	Influence of Rheological Characteristics of Media on Surface Morphology of Additively Manufactured Tool Steels in Abrasive Flow Finishing Process. *Jojjode Kiran Kumar, Botta Thirupathi, Veerla Saisurendra, Mamilla Ravi Sankar*
11:20	11:40	Improving surface integrity in bone sawing through trajectory optimization *Han Wang, Urara Satake, Toshiyuki Enomoto*	Effects of surface treatment and morphology on tensile shear strength of adhesively bonded aluminum alloy plate *Shogo Takesue, Kenya Sakuma, Tatsuro Morita*	Tailored Viscoelastic Media for Precision Finishing of Additively Manufactured Inconel 718. *Botta Thirupathi, Jojjode Kiran Kumar, Veerla Saisurendra, Mamilla Ravi Sankar*
11:40	12:00	Surface Integrity Assessment in Dry and CO2-assisted High-speed Drilling of Powder Bed Fusion - Laser Beam (PBF-LB) Inconel 718 *Khushal Jaiswal, Tarang Lotwalaa, Vishvesh Badheka, Navneet Khanna*	Emulsion-based Al2O3-nanofluids: evaluation of rheology and tribological behavior in ball-on-grinding-wheel experiments *Robar Arafat, Sherif Okeil, Oliver Schömig, Gabriela Ventura Silva, Georg Garnweitner, Christoph Herrmann*	Electromagnetic assisted Ultrasonic Nanocrystal Surface Modification of SS304 *Yu Zhang, Binghan Huang, Yixuan Ye, Le Gao, Chang Ye*
12:00	14:00	Lunch Break		
Program:		**Technical Session 6**		
start	end	**[Room 1] Chair:**	**[Room 2] Chair:**	**[Room 3] Chair:**
14:00	14:20	High-precision laser drilling of CFRP enabled by zinc-mediated heat dissipation *Yongfeng Qian, Hong An, Hu Huang*	Magnetic Field-Assisted Finishing Process for Ni-Ti Alloy (Nitinol) Stents *Hiroyuki Matsumura, Patrick Moorhead, Hitomi Yamaguchi*	*Crack Suppression in V-Bending of Metal Sheets via Molecular Adsorption* *Tatsuya Sugihara, Yu Tobuchi, Debapriya Pinaki Mohanty, Toshiyuki Enomoto*
14:20	14:40	Effects of Cutting Speed and Lubrication on Surface Topography in Broaching of 42CrMo4 Steel *Cristhian M. Chingo, Gorka Ortiz-de-Zarate, Iñigo Rodriguez, Mikel Etxebeste, Pedro J. Arrazola*	Interactions between Superabrasives and the Workpiece in Grinding of Hardened Steel: Analysis of the Integrity of the Grinding Tool and the Workpiece utilizing Laser Spectroscopy *Tountzer Tsagkir Dereli, Monika Kipp, Gabriel Brune, Julian Herbers, Jörg Debus, Dirk Biermann*	Prediction of Required Process Time for Edge Rounding in Centrifugal Barrel Finishing *Yohei Hashimoto, Rika Noda, Minoru Ito, Tetsuya Yamada*
14:40	15:00	Drilling induced surface integrity: surface deformation characterization *Hassan Ghadbeigi, Joshua Priest, Sabino Ayvar-Soberanis, Matthew Way, Anders Liljerehn*	Grind hardening in reciprocating grinding *Gibin George, Dinesh Setti, Vineed Narayanan, Pramod Kuntikana*	Citric Acid-Assisted Chemical Mechanical Polishing for Y_2O_3–MgO Nanocomposite Ceramics *Weijian Zhang, Wei Gao, Maosen Yang, Jingyuan Wang, Keyi Wu, Wule Zhu*
15:00	15:20	Surface Integrity Assessment in Dry and CO2-assisted High-speed Drilling of Powder Bed Fusion - Laser Beam (PBF-LB) Inconel 718 *Khushal Jaiswal, Tarang Lotwala, Vishvesh Badheka, Navneet Khanna*	Continuous Variable-Speed Grinding Cycles: Experimental Study on Thermal Integrity and Surface Quality *David Barrenetxea, Jorge Alvarez, Maria Garcia, Leire Godino*	Direct joining of hot water-treated copper and epoxy resin for improvement of semiconductor packaging *Ryuichiro Hanada, Weiyan Chen, Fuminobu Kimura, Yusuke Kajihara*
15:20	15:40	Coffee Break		
start	end	**[Room 1] Chair:**	**[Room 2] Chair:**	**[Room 3]**
15:40	16:00	Material Dependency of Water-Mediated Surface Modification in Ultra-Precision Machining *Chaoyue Zhang, Jiaming Zhan, Yu Zhang, Hao Wang*	Influence of the Dressing Process Parameters on the Grinding Wheel Topography and the Work Result in Double Face Grinding with Planetary Kinematics *Eckart Uhlmann, Alexander Hötling*	
16:00	16:20	Feasibility Study of Using Acceleration Signals for Online Monitoring of Brittle-to-Ductile Transition in Slow Tool Servo Diamond Turning of (111) CaF_2 Single Crystal *Keer Tang, Duoshiun Jang, Jiwang Yan, Chunwei Liu*	Form error compensation in Reaction-Induced Slurry-Assisted grinding *Tatsuya Uchikawa, Yusuke Chiba, Tsuyoshi Kaku, Masahiko Fukuta, Kentaro Watanabe, Yasuhiro Kakinuma*	
16:20	16:40	Preliminary study on atomic-scale smoothing of silicon using enzymatic hydrolysis machining *Bing Wu, Hui Deng*	Fluorescence-Based On-Machine Surface Topography Measurement in Wet Grinding Processes *Masaki Michihata, Saeko Fujii, Shuzo Masui, Satoru Takahashi*	
16:40	17:00	Investigation of tool wear characteristic of nano-polycrystalline diamond in ultra-precision cutting of silicon *Asuka Otani, Jiwang Yan*	Thin-film measurement using Mirau-type coherence scanning interferometer *Masaharu Hayami, Shuzo Masui, Masaki Michihata, Yoshiyuki Kawata, Tetsuji Kawakami, Hideki Morii, Satoru Takahashi*	
17:00	17:20	Closing (Room 1)		