

July 23, 2014 (Wed)-1

Time	Hotel Nikko Kanazawa
8:00	Registration desk open
	<b>Hougaku Hall, ISHIKAWA ONGAKUDO</b>
10:00	<b>Opening Address</b> <i>Mr. Kein-ich Nakamura</i> , Conference Chair (President, Nakamura-Tome Precision Industries Co., Ltd.)
10:10	<b>Prenary Session I (Keynote Speech I)</b> <i>Prof. Alexander H. Slocum</i> (ASPE Former President, MIT) Big hydrostatic bearing for ships and offshore wind machines
10:50	<b>Prenary Session I (Keynote Speech II)</b> <i>Mr. Kunio Noji</i> (Chairman of the Board, Komatsu Ltd.) Monozukuri (Competitive Manufacturing) of Komatsu
11:30	Lunch

July 23, 2014 (Wed)-2

Time	Hotel Nikko Kanazawa			
	Room A	Room B	Room C	Room D
<b>Session</b>	<b>Non-conventional machining (1)</b> <i>Chairman:</i> <i>(Prof. Jiwang Yan)</i>	<b>High precision machining (1)</b> <i>Chairman:</i> <i>(Prof. Takashi Matsumura)</i>	<b>Tribological systems</b> <i>Chairman:</i> <i>(Prof. Naoto Ohtake)</i>	<b>Technical session</b> <i>Chairman:</i> <i>(Prof. Yoshitaka Morimoto)</i>
13:00	<b>A01:</b> Finish-Cutting of Polycrystalline Diamond by Micro Wire-EDM Using a Novel Pulse Control Method. <i>Mu-Tian Yan, Yu-Liang Su, Yi-Ting Liu</i>	<b>B01:</b> Precision Machining and Measurement of Diffractive Lens Made of Synthetic Quartz <i>Mutsumi Okada, Hirofumi Suzuki, Daisuke Kato, Hideo Hanada, Hiroshi Araki, Shingo Kashima</i>	<b>C01:</b> Influence of Slurry Flow Behavior on Material Removal Rate of Sapphire-Chemical Mechanical Polishing <i>Michio Uneda</i>	<b>D01:</b> Future Machine and Cutting Tool Trends <i>Chris Mills, Takeo Sone</i>
13:20	<b>A02:</b> High Spindle Speed EDM with Electrostatic Induction Feeding by Controlling the Duration of High Frequency Discharge <i>Norliana Mohd Abbas, Masanori Kunieda</i>	<b>B02:</b> Wear Behavior of Mini-size Diamond Wheel in Ultrasonic Assisted Grinding <i>Masakazu Fujimoto, Yongbo Wu, Mitsuyoshi Nomura, Hidenari Kanai, Masahiko Jin</i>	<b>C02:</b> Synthesis of Porous Amorphous Boron-Carbide (a-CB:H) Film and Characterization of Their Behavior in Different Environments <i>Shahira Liza Kamis, Naoto Ohtake, Hiroki Akasaka</i>	<b>D02:</b> Turning method of Non-Axisymmetric Curved Surface by linear motor driven Lathe <i>Katsuhiro Nakagaki, Yoshitaka Morimoto, Hideharu Kato, Keigo Takasugi, Naohiko Suzuki, Yoshiyuki Kaneko, Makoto Yamano, Yutaka Tokuno</i>

13:40	<b>A03:</b> Comparison of Gap Phenomena between EDM in Oil and Deionized Water Using Transparent Electrodes <i>Tomoo Kitamura, Masanori Kunieda, Kohzoh Abe</i>	<b>B03:</b> Study on cylindrical mirror grinding by ultra fine infeed dressing <i>Takeshi Osaka, Junichiro Takagi</i>	<b>C03:</b> Applicability of surface plastic flow process as surface modification of sulphide containing copper alloy bearing <i>Yoshimasa Hirai, Tomohiro Sato, Takehisa Fukui, Yuma Horiba, Hatsuhiko Usami</i>	<b>D03:</b> Advanced Machinig using piezo based actuator systems <i>Bucht Andr, Welf-Guntram Drossel, Kenny Pagel, Holger Kunze, Hans-Juergen Roscher</i>
14:00	<b>A04:</b> Analysis on the Time of Material Ablation in EDM by Molecular Dynamics <i>Xiaodong Yang, Lisi Liu, Masanori Kunieda</i>	<b>B04:</b> Simulation Analysis of Thermal Deformation of a Workpiece during Cylindrical Plunge Grinding <i>Takashi Onishi, Moriaki Sakakura, Yohei Wada, Naoki Sato, Kazuhito Ohashi, Shinya Tsukamoto</i>	<b>C04:</b> Deposition of segment-structured DLC films by FCVA method <i>Shota Kondo, Kei Saito, Makoto Matsuo, Yoshinao Iwamoto, Hiroki Akasaka, Naoto Ohtake</i>	<b>D04:</b> Energy efficiency using lightweight clamping devices as the example <i>Hans Michael Weller, Hidetoshi Suzuki</i>
14:20	<b>A05:</b> Development of high-speed on-machine 3D scanning system <i>Derek Marshall</i>	<b>B05:</b> Ultra-precision Finishing of Diamond Substrate using an Fe Lapping Plate in H <sub>2</sub> O <sub>2</sub> Solution <i>Akihisa Kubota, Shin Nagae, Shuya Motomura, Mutsumi Touge</i>	<b>C05:</b> Study on an identification method of real contact area considering plastic deformation of a surface roughness <i>Kyoko Nakamura</i>	<b>D05:</b> New material Mineral cast synerhic granite for the machine base for the different application fields. <i>Michael Kadoma</i>
14:40 15:00	<b>Coffee break</b>			

**RoomA-C: Banquet Hall 3F, Room D: Function Room 3F (La Grant Lumière )**

July 23, 2014 (Wed)-3

Time	Hotel Nikko Kanazawa			
	Room A	Room B	Room C	Room D
<b>Session</b>	<b>Non-conventional machining (2)</b> <i>Chairman:</i> <i>(Prof. Kazuya Yamamura)</i>	<b>High precision machining (2)</b> <i>Chairman:</i> <i>(Prof. Mutsumi Touge)</i>	<b>Design</b> <i>Chairman:</i> <i>(Prof. Michio Uneda)</i>	<b>Green manufacturing</b> <i>Chairman:</i> <i>(Prof. Yasushi Umeda)</i>
15:00	<b>A06:</b> Control and Electrode Compensation in Piezoelectric Self-adaptive Micro-EDM <i>Xiuzhuo Fu, Ya Zhang, Dezheng Kong, Qinhe Zhang</i>	<b>B06:</b> Micromilling Operation of AISI 52100: Experimental and Numerical Analysis <i>Aldo Attanasio, Domenico Umbrello, Rachid M'saoubi, Elisabetta Ceretti</i>	<b>C06:</b> New Mechanical Design of a Large Lens Optics for Subaru Telescope <i>Kohei Imoto</i>	<b>D06:</b> Reuse and Recycle EOQ Model for Reverse Logistics with a Marginal Reuse Rate <i>Tomomi Nonaka, Toshiya Kaihara, Nobutada Fujii, Jiali Zhu</i>

15:20	<p><b>A07:</b> Friction Characteristics of Microstructured Surface using Whirling Electrical Discharge Texturing Vitchuda Lertphokanont, Takayuki Sato, Masahiro Oi, Minoru Ota, Kai Egashira, Keishi Yamaguchi, Toshikazu Nanbu, Hirotaka Miwa</p>	<p><b>B07:</b> Micro Milling of Sapphire <i>Takashi Matsumura, Tetsuya Yamaguchi</i></p>	<p><b>C07:</b> The Effect of Non-normality on Statistical Tolerance Index <i>Akimasa Otsuka, Fusaomi Nagata</i></p>	<p><b>D07:</b> A System that Seeks Appropriate Path between Houses for Promoting Reuse of Products. <i>Yuki Yamamori, Keisuke Nanjo, Kei Kato, Hiroshi Ookawa, Hiroshi Kawaharada, Hiroyuki Hiraoka</i></p>
15:40	<p><b>A08:</b> Electron Backscatter Diffraction (EBSD) Analysis of Wire-EDMed Surfaces -A new way to identify the metallurgical conditions in process induced rim zones- <i>Fritz Klocke, Lars Hensgen, Andreas Klink, Joachim Mayer, Alexander Schwedt</i></p>	<p><b>B08:</b> Helical Blade Machining of CoCrMo Alloy <i>Takashi Matsumura, Masaki Serizawa</i></p>	<p><b>C08:</b> A Study on Modeling of Market Circulation of Production Facility Modules by Considering Diversity of Value <i>Akira Tsumaya, Chunyan Wu, Akira Tsumaya, Toshiharu Taura</i></p>	<p><b>D08:</b> Towards the optimization of product sustainability and performance in machining processes. <i>Giovanna Rotella, Stefania Rizzuti, Dominico Umbrello</i></p>
16:00	<p><b>A09:</b> Experimental Investigation of Parameters Affecting the <math>\mu</math>EDM of Non-conductive AlN Ceramics <i>Nirdesh Ojha, Eldho Mathew, Florian Zeller, Claas Mueller, Holger Reinecke</i></p>	<p><b>B09:</b> Examination of Generation Characteristics of Finished Surface Roughness with Extreme-small-diameter Ball-endmills <i>Kengo Shimizu, Haruhisa Sakamoto, Masayori Ito, Yasunori Kobayashi</i></p>	<p><b>C09:</b> Asset Development and Reuse Strategies in Cloud-compliant Service Development <i>Shigeru Hosono, Yoshiki Shimomura</i></p>	<p><b>D09:</b> Reduction of Power Consumption in Rough Turning <i>Yohei Oda, Masahiko Mori, Makoto Fujishima, Yoshimi Takeuchi</i></p>
16:20	<p><b>A10:</b> Production efficiency translates to competitive cost per part <i>Laurent Vuille</i></p>	<p><b>B10:</b> Estimation of Workpiece Flow Stress and Friction for FEM Simulation of High-speed Orthogonal Cutting Process <i>Norfariza Wahab, Hiroyuki Sasahara</i></p>	<p><b>C10:</b> A Method for Visualizing Values of a Service Using Monte Carlo Simulation <i>Ken Kawase, Jyunya Shindo, Yutaro Nemoto, Fumiya Akasaka, Yoshiki Shimomura</i></p>	<p><b>D10:</b> Development of Electric Rust Preventive Machining Method System - Image analysis and calculation on Particle Removal for Recycling Water - <i>Naohiro Nishikawa, Takekazu Sawa, Yoshihiro Hagihara, Nobuhito Yoshihara, Hiroaki Okawai, Masahiro Mizuno, Toshirou Iyama, Shinya Tsukamoto</i></p>

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