

8:30-8:40	Opening																
8:40-9:20	Prenary lecture I (ME1) Potential of Toroidal Traction-Drive IVT for Torqu-Converter Less Automatic Power Transmission: Hirohisa Tanaka (Yokohama National Univ.)																
9:20-10:00	Planary lecture II (AS) Sophisticated Electrostatic Motors, Toshiro Higuchi (University of Tokyo) Chair, Koichi Suzumori (Okayama Univ.)																
10:00-10:40	Planary lecture III (Tribo)																
11:00-11:20	Room F	Tribology	Room A	Machine elements	Room B	Acuator	Room C	Tribology	Room D	Machine design	Room E	Manufacturing					
	Boundary lubrication	Noritsugu Umehara (Nagoya University)	Vibration/Noise	Haruo Hough (Tokyo Inst.of Tech.), Masaharu Komori (Kyoto Univ.)	Micro/nano process of actuat	Prof. Kazuhiro Yoshida (Tokyo Institute of Technology)	Sliding contact	Masayoshi Muraki (Shonan Institute of Technology)	Machine design	Keiichi Watanuki (Saitama Univ.) Nobuhiko Henmi (Shinsyu Univ.)	Simulation and digital system for manufacturing	Yasuo Kondo (Tottori University)					
	C03	Toshiharu Kazama (Muran Institute of Technology)	Mixed Lubrication Simulation of Hydrostatic Spherical Bearings for Hydraulic Piston Pumps/Motors	A01	Syuhei Kurokawa (Kyushu Univ.), Yasutsune Ariura, Akio Kawamoto (Denso Kitakyushu)	Identification of the parameters of gear eccentricity by using measured transmission error curves	B01	Daiji Noda, Shuhei Yamashita, Yoshifumi Matsumoto, Masaru Setomoto, Tadashi Hattori (Univ. of Hyogo)	C6	Takashi Tomikawa (Taiho Kogyo), Shigeyuki Suga, Hitoshi Wada (Taiho Kogyo), Naoyuki	Bearing Performance of Lead-free Tin Overlay	D01	Soo-Yong Kim (Dong-A Univ.)	Development of Reverse Engineering System on Point Beam Projection	E01	Uwe Ruetjes(Laboratory for Machine Tools, Aachen University), Tobias Schroeder, Christian Shigeko Ohtani (AIST), Toshio Kojima (Tokyo Metropolitan Industrial Technology Research Institute), Keiichi	Analysis and Simulation of Different Manufacturing Processes for Bevel Gear Cutting
	C33	Takuya Ogawa(Nagoya Inst. of Tech.), Fumihiro Itoigawa,Takashi Norihisa (Okuma), Takashi Nakamura (Nagoya Inst. of Tech.)	Boundary Friction Using Lubricant Containing Phosphate Ester additive under Low Speed and Low Contacting Pressure Conditions	A02	Takayuki Nishino (Mazda Motor)	Vibration Analysis of the Helical Gear System Using the Integrated Excitation Model	B02	Masaru Setomoto, Yoshifumi Matsumoto, Syuuhei Yamasita, Daiji Noda, Tadashi Hattori (Univ. of Hyogo)	C10	Noritaka Aso (Oita National College of Technology), Keigo Fukunaga(Oita National College of Technology)	Lubrication Characteristics of Grease Lubrication Plain Bearing	D02	Il-Ju Bae (Yonsei University)	A Knowledge-based System with Web Ontology Language in an Excavator Design	E02	Shigeko Ohtani (AIST), Toshio Kojima (Tokyo Metropolitan Industrial Technology Research Institute), Keiichi	A Database of Arc Welding Cases to Assist Troubleshooting by Q&A Style
	C14	Yasutaka Ito (Toshiba Corporation), Hitoshi Hattori (Toshiba Corporation), Kazuhiko Miura(Toshiba Carrier)	Mixed Lubrication Analysis of Vane Sliding Surface in Rotary Compressor Mechanisms	A03	Takayuki Araragi (Doshisa Univ.), Yasuhiro Uenishi (Jatco), Toshiaki Hirozaki (Doshisa)	Design Method of Number of tooth for Low Noise Gear Considering Human Aural Characteristics	B03	Kazufumi Nishimoto, Naoya Ishizawa, Hiroyasu Ueda, Daiji Noda, Tadashi Hattori (Univ. of Hyogo)	C11	Masahide Iwata (Oita National College of Technology), Keigo Fukunaga (Oita National College of	Temperature Rise in Grease Lubrication Plain Bearing	D03	Hiroyuki GOTO (JSPMI)	A Multi-Axial Materials Testing System Using6-DOF Parallel Kinematics	E03	Tae-Ho Kim (Dong-A Univ.), Chul-Hee Lee, Seung-soo Lee, Soon-Kyung Kim (Dong-eui Institute of	Preproduction Manufacturing of Micro Gear
12:00-12:20	C32	Yoshiyasu Tamanaha, Takayuki Tokoroyama, Noritsugu Umehara (Nagoya Univ. ), Yoichi Akagami (Akita Prefectural Industrial	Reduction of adhesion of coagulated blood in electrical knife	A04	Shigeki Matsumura (Tokyo Inst. of Tech.), Chanat Ratanasumawong (Chulalongkorn Univ.), Yuichi Ogawa (Gunma	Phase Calibration of Vibration to Estimate Gear Excitation Force Characteristic	B04	Kunitomo Kikuchi, Masafumi Miwa, Shigeki Tsuchitani (Wakayama Univ.)	C16	Katsuhiro Ashihara (Taiho Kogyo), Hiromu Hashimoto(Tokai University)	A theoretical modeling for micro grooved bearings under mixed lubrication	D04	Kazuyuki Kojima (Saitama University)	Neural Network Model of Task Ambient Conditioning System	E04	Fritz Klocke (WZL, RWTH Aachen University), Tobias Schroeder, Stefan Herzhoff	Simulation of the Gear Hobbing Process - Determination of the Loads on the Tool using an FE-based Simulation Model
12:20-13:30	Lunch																
13:30-13:50	Numerical analysis	Shigeka Yoshimoto(Tokyo University of Science)	Strength I	Tae Hyong Chong (Hanyang Univ.), Masashi Yamanaka (Tohoku Univ.)	Physical and tactile sensors and their applications	Prof. Masahiro Ohka (Nagoya University)	Surface modification I	Shin-ya Sasaki(Tokyo University of Science)	Kinetics	Jun Nango (Yamagata Univ.) Nobuyuki Iwatsuki (Tokyo Inst. Tech)	Ecologically friendly manufacturing No.1	Fumihiro Itoigawa (Nagoya Inst. Tech.)					
	C34	Makoto Kamiya (Nagoya University),Yuji Yamashita, Youngsheng Zhu (Xi'an Jiaotong University), Noritsugu Umehara (Nagoya University)	Development of polishing simulator for MAGIC polishing	A05	Masanori Seki (Okayama Univ.), Hitoshi Soyama (Tohoku Univ.), Akira Yoshida (Okayama	Effect of Cavaitaon Shotless Peening on Fatigue Life of Case-Hardened Steel Gear	C9	Eri Hamajima (Nagoya University), Hiroyuki Koizumi, Hiroyuki Kousaka, Yoshihiro Arakawa, Noritsugu	D05	Sun-Ho Kim (Seoul National University)	Optimal Motion Planning of the Redundant Parallel Kinematic Mechanisms Using Principal Component Analysis	E05	Yasuo kondo (Tottori University), Kenji Yamaguchi (Yonago National Colege of Technology), Satoshi	A study on emission free process in die forging manufacturing			
	C35	Michimasa Uchidate (Iwate University), Akira Iwabuchi, Koh Kikuchi, Tomoharu Shimizu( Iwate University)	Research on summit parameters of isotropic surface roughness	A06	Ryohei Ishimaru (Kyushu Univ.), Syuhei Kurokawa, Yoji Matsukawa, Masahito Goka (Hitachi Metals)	A Fundamental Study on the Surface Durability of High Strength Spheroidal Graphite Cast Iron Gears	C18	Jong-hyung Kim, Hiroyuki Kousaka, Noritsugu Umehara(Nogoya University)	D06	Nobuyuki Iwatsuki (Tokyo Institute of Technology)	Systematic Analyses of Forward Dynamics of Spatial Closed-loop Mechanisms	E06	Kenji Yamaguchi (Yonago National College of Technology), Yasuo kondo (Tottori University), Syu	Cutting Performance of Water-soluble Coolant Diluted with Recycled Water form Spent Coolant			
	C21	Ema Tamura (TMCIT), Kenji Takei, Ryozo Nemoto(TMCIT), Hideo Takahashi(KNCT)	ComputingMethodofContactStress	A07	Daniel Tilahun Redda (Miyazaki Univ.), Tsutomu Nakanishi, Gang Deng,	Surface Durability of the Developed Cr-Mo-Si steel under the Rolling-Sliding Contact Condition	B07	Masahiro Ohka (Nagoya Univ.), Shingo Kondo (Mitsubishi Electric)	C19	Emmanuel Audras (Nagoya University), Yusuke Tsukiyama, Takayuki Tokoroyama, Michiko Kusunoki,	Measurement of shearing strength at the interface of carbon nanotube film synthesized by surface decomposition of silicon carbide	D07	Daisuke Matsuura (Tokyo Institute of Technology)	Redundancy Utilization of Hyper Redundant Robots Based on Movability and Assistability	E07	Toshiaki Wakabayashi (Kagawa University), Satoshi Suda (Nippon Oil Corporation)	Tribological Action and Cutting Performance of Lubricants in MQL Machining of Steels
	C22	Naoko Honda (Nagoya university), Noritsugu Umehara (Nagoya university), Ryusi Ohashi, Akira Hanafusa(Rinnai)	The evaluation of fracture energy at the interface between baked fish protein and metal	A08	Masahiro Fujii (Okayama Univ.), Akira Yoshida, Yasuhide Mizuno, Kento Fukuhara, Kiyoji	A Comparison of Rolling Contact Fatigue of Steel Roller under Traction Oil Lubrication and under Turbine Oil Lubrication	B08	Atsushi Tazo, Takashi Maeno (Keio Univ.)	C30	Shingo Kanda (Nagoya University), Takayuki Tokoroyama, Noritsugu Umehara(Nagoya University)	Surface analysis of friction scar of CNx with FT-IR	D08	Jun NANGO (Yamagata University)	Static analysis of the shoulder joint using spatial mechanism	E08	Satoshi Suda (Nippon Oil Corporation), Toshiaki Wakabayashi (Kagawa Univ. )	The Influences of Atmospheric Carrier Gases on Efficient MQL Machining of Aluminum
14:50-15:10	C27	Keita Horiuchi (Yokohama National University), Ken Nakano(Yokohama National University)	An expert system with tactile information based on the signals of frictional vibration	A09	Masaharu Komori (Kyoto Univ.), Takushi Nomura, Edzrol Niza Mohamad, Iwao Yamaji, Nobuyuki Nishiyama (RIMCOF Tohoku Univ.), Yukiharu	Research on the strength of metallic glass micro gear (Development of performance tester for micro gear)	B09	Hiroyuki Nishimoto (Industrial Research Institute of Tottori Prefecture), Fumio Obata, Kazutake Uehara (Tottori Univ.), Kenji Yamaguchi	C31	Huapeng Wang (Nagoya University), Takayuki Tokoroyama, Noritsugu Umehara(Nagoya University)	Tribology properties of Carbon-overcoated CNx	D09	Ewoud van West (University of Tokyo)	Development of Scara-type haptic device			
15:10-15:30			A10	Eiichirou Tanaka (Hiroshima Univ.), Kazuteru Nagamura, Kiyotaka Ikejo, Ryozo Nemoto (TMCIT)	The Damage Diagnosis of Gear Tooth Surface by Using a Laser Beam Reflection (Study toward the Practical Use under the Condition of Lubricant)			C13	Naofumi Hiraoka (Institute of Technologists), Nobuaki Saito(Institute of Technologists),	Tribological Properties of DLC-Sinterd Carbon Sliding Pair	D10	Tomoko Hirayama (Doshisha Univ.)	Frequency Analysis of Hard Disk Drive Spindle System Supported by Hydrodynamic Bearings	ecologically friendly manufacturing No.2	Satoshi Suda (Nippon Oil Corpration)		
	Sliding friction I	Atsushi Korenaga (AIST)	Strength II	Kazuteru Nagamura (Hiroshima Univ.)	Actuators and their applications (1)	Prof. Daiji Noda (University of Hyogo)	Surface modification II	Yasuhisa Ando (AIST)	Prenary (Machine designr)		E09	Kei Adachi (Oita National College of Technology), Keigo Fukunaga	Relationship between Cutting Force and Crater Wear by Dry Cutting Fly Tool				
	C24	Masayoshi Muraki (Shonan Institute of Technology), Tetsuro Ebihara(Shonan Institute of Technology)	Friction characteristics and mechanical properties of tribofilms formed by ZnDTPs with different alkyl groups	A11	Masashi Yamanaka (Tohoku Univ.), Shinji Miwa, Katsumi Inoue, Yoshiki Kawasaki (O-OKA Corporation)	Bending Strength of Carburized Forged Spur Gears	B11	Tomoaki Yano (AIST), Yoshiaki Kubota, Toru Shikayama, Takeo Suzuki (Yasukawa Electric Co.)	C37	Shinnosuke Kadowaki (Nagoya University), Daisuke Yoshimura, Hiroyuki Kousaka, Noritsugu	Influence of hardness distribution on the wear of DLC slid against cast iron in oil	Keynote lecture IV J.H. Oh (KAIST)		E10	Fumihiro Itoigawa (Nagoya Institute of Technology), Kei-ichi Kawada (Aichi Industrial Technology Institute), Takashi	Ecological and Clean Ball-End Milling of Molding Die Using Withdrawal of Chips by Suction	
	C15	Noritsugu Umehara (Nagoya University), Takashi Fukutsuka, Toshiaki Wakabayashi, Kouji Yamamoto, Takamitsu Sakai, Takayuki Kaseki(TADANO)	FRICtIONAL CHARACTERISTICS OF POLYMERIC SLIDING MATERIALS USED FOR CRANE BOOM	A12	Kouitsu Miyachika (Tottori Univ.), Takao Koide, Satoshi Oda (Fukuyama Univ.), Naoki Motooka (Sumitomo Electric Sintered Alloy), Keiichi	Effects of Heating Conditions on Residual Stress, Hardened Layer and Bending Fatigue Strength of Induction Hardened Sintered Metal Gears	B12	Hideaki Kanasugi, Takashi Maeno (Keio Univ.)	C42	Shin-ya Sasaki (Tokyo University of Science),Miki Nakako, Hiroki Mano, Atsushi Korenaga, Koji Mivake(AIST)	Lubricity of Ionic Liquids on Friction and Wear of DLC under a Vacuum Condition	E11	Akiyoshi Kobayashi (Meijo University), Shinya Minami	Mechanical Characteristics of Nitride Hard Thin Films for Zero Emission Cutting			
	C20	Jun Tominaga (Tokyo University of Science), Shigeka Yoshimoto, Takashi Watanabe, Yasuo Mori (Tokyo	A Circular Arc Slider with a High Flying Height for Optical Disc Devices	A13	Takao Koide (Tottori Univ.), Taketoshi Maemori, Teruie Takamasu (Kyushu Univ.), Kouitsu	Load Bearing Capacity of Induction-Hardened Rolled Sintered Metal Gears	B13	Yasuhiro Sawamoto (Nagoya Univ.), Shiho Matsukawa (Orimpus), Masahiro Ohka (Nagoya Univ.), Testu Miyaoka	C43	Hiroyuki Kousaka (Nagoya University)	Study on the wear mechanism of hydrogen-free diamond-like carbon slide against cast iron	E12	Yoshihiko Murakami (OSG corporation)	Ecological Cutting by Ultra Fine Crystalline Diamond Coated Tools			
17:00-17:20	Sliding friction II	Masaaki Miyatake(Tokyo University of Science)	Strength III	Masahiro Fujii (Okayama Univ.)	Actuators and their applications (2)	Prof. Takefumi Kanda (Okayama University)	EHL	Hiroyuki Kousaka (Nagoya University)	Micro/nano mechanics (1)		Hidetugu Terada (Yamanashi Univ.)	Micro/Nano processing	Akira Iwabuchi (Iwate University)				
	C1	Sobahan Mia (Saga University), Nobuyoshi Ohno(Saga University)	Effect of sound velocity of lubricating oil on its molecular structure	A14	Kouitsu Miyachika (Tottori Univ.), Hideaki Katanuma, Takao Koide, Michiaki Morimoto, Jun Iwanaga (Denki Kogyo), Hidefumi Mada (Tottori Pref. Metal	Effects of Pre-Treatment and Heating Time on Hardened Layer and Bending Fatigue Strength of Induction Hardened Gears	B14	Makoto Toeda, Takashi Maeno (Keio Univ.)	C26	Kazuyoshi Manabe (Yokohama National University), Ken Nakano (Yokohama National University)	The breakdown processes of thin oil films induced by quasi-static loading	D14	Sang-Don Ye (Don-Eui University)	Design of Ultra Precision Stage using Response Surface Methodology	E13	Doo-Sun Choi (Korea Institute of Machinery & Materials(KIMM)), TaeJin Je, Yeong-Eun Yoo, Kyung-Hyun Whang	A Study on the Ultra Precision Roll Drum Mold Fabrication Technology for Optical Films
	C12	Masashi Yamanaka (Tohoku University), Hidehiko Ida, Katsumi Inoue (Tohoku University)	Characteristics of Traction Drive in Minimum Oil Supply	A15	Natsuhiko Seyama (Hiroshima Univ.), Kazuteru Nagamura, Kiyotaka Ikejo, Eiichirou Tanaka,	Wear of Involute-cycloid Composite Tooth Profile Gear	B15	Dong-won Youn, Jung-ho Park, Young-su Son (Korea Institue of Machinery and Materials)	C17	Kenta Nakamura (Shonan Institute of Technology), Masayoshi Muraki(Shonan	Oil Film-forming behavior and EHL traction of some polymer solutions	D15	Seungchol CHOI (Tokyo Institute of Technology)	Changes of Attachment of Dust between Asperity Array and Non-Asperity Array on Micro Contact Surface due to the Behaviors of Cantilever	E14	Kyo Tanabaki (University of Hyogo), Youichi Funabiki (Nanocreate Co. Ltd), Daiji Noda (University of Hyogo), Tadashi Hattori	Fabrication of the 3 dimension resist microstructure using X-ray diffraction
	C25	Satoru Maegawa (Yokohama National University), Ken Nakano(Yokohama National University)]	Dynamic behaviors of contact surfaces in the friction of soft materials	A16	Inho Bae (Stech&H), Hanspeter Dinner (KISSsoft AG), Tae Hyong Chong (Hanyang Univ.)	Assumption in Engineering Analysis of Wind Turbine Gearboxes and its Effects on The Design	B16	Tetsuya Nakao, Disuke Gotsu (Kurume National Collage of Technology)	C39	Somer M. Nacy	Effect of Starvation on Thermo-Elastohydrodynamic Lubrication of Rolling/Sliding Contacts	D16	Yuichi NAKAZATO (Nippon Institute of Technology)	Micromanipulation System Using SMA Actuator in a SEM with CCD Camera	E15	Hiroshi Tsujii (University of Hyogo), Kazuma Shimada, Makoto Tanaka, Daiji Noda, Tadashi Hattori	Fabrication of the X-ray mask using the silicon dry etching