Room 1 (3F Conference room 301)

10:00-11:00

Fluid Engineering I

Chairperson: Manabu Iguchi (Hokkaido University)

1	Non-Cryogenic Method Helium Enrichment From Natural Gas
1	V.M. Fomin, V.A. Lebiga, V.N. Zinovev, A.Y. Pak, A.S. Vereshchagin, I.V. Kazanin, A.F. Fomina
2	Flow Control Using Magneto-Rheological Elastomers
3	Kazuhiko Matsumura, Hiroshi Yamaguchi
6	Nonconventional Applications of the Hot-Wire
U	Vadim Lebiga, Aleksey Pak, Vitaly Zinovyev
	Flue Gas Characteristics of Sewage Sludge in a Fluidized Bed Incinerator with Turbocharger
11	Takahiro Murakami, Akio Kitajima, Yoshizo Suzuki, Hidekazu Nagasawa, Takafumi Yamamoto, Takami Koseki, Hitoshi Hirose,
	Seiichiro Okamoto

11:15-12:15

Fluid Engineering II

Chairperson: Jiun-Jin Miau (National Cheng Kung University)

Ciidi	Chair persons than the triang chair choirg range on strong	
13	Anomalous Behavior in Jet Thrusts and Pressure Drops of Fluids Flowing Out of Mmicro-Orifices	
13	Akiomi Ushida, Tomiichi Hasegawa, Takatsune Narumi, Shouta Kudou	
16	Effect of Water Jet on the Melting Process of Ice in a Cylindrical Bath Takeshi Kawayama, Masahiro Gotou, Satoshi Miki, Manabu Iguchi	
10	Takeshi Kawayama, Masahiro Gotou, Satoshi Miki, Manabu Iguchi	
17	Wettability Effect on a Single Bubble Passing through a Plate Orifice Placed in a Vertical Pipe	
1 /	Sho Yokoyama, Manabu Iguchi	
19	Effect of Case Shape on Pressure in Newly Developed Containers for Liquid Food Subjected to Drop Impact	
19	Kenta Watanabe, Eisaku Umezaki	

14:30-15:30

Fluid Engineering III

Chairperson: Shuichi Torii (Kumamoto University)

Ciia	Chair person: Shalem Torn (Kamamoto Girversity)	
21	Behavior of a Droplet on an Inclined Plate under Various Wettability Conditions	
21	Yusuke Sakai, Yoshiaki Ueda, Toshio Ishii, Manabu Iguchi	
22	Occurrence Process of Jet-Induced Rotary Sloshing in a Cylindrical Container	
22	Yoshiaki Ueda, Daisuke Iguchi, Toshio Ishii, Manabu Iguchi	
23	Water Model Experiment on Mechanical Agitation for Hot Metal Pretreatment Process	
23	Shingo Sato, Tatsuya Ohmi, Manabu Iguchi	
32	The Dynamic Behavior of Liquid Droplets on Vibrating Plate	
32	Seiichi Sudo, Avaka Goto, Hiroki Kuwano, Yuichiro Hamate, Tetsuva Yano, Kvohei Hoshika	

15:45-16:30

Fluid Engineering IV

Chairperson: Kenji Katoh (Osaka City University)

39	Slot Coating Flows of Dilute Solution of High Molecular Weight Polymer Inside Dies
39	Slot Coating Flows of Dilute Solution of High Molecular Weight Polymer Inside Dies Tomohiko Anazawa, Takeaki Tsuda, Hiroshi Yoshiba, Takatsune Narumi and Tomiichi Hasegawa
	An Experimental Study of the Motion of Platelets in Shear Flow
41	Takeshi Akinaga, Masako Sugihara-Seki, Tomoaki Itano, Junichiro Yamamoto
49	Heat and Mass Transfer in Sponge Iron Reactor Reduction Zone
	Bayu ALamsari, Shuichi Torii, Azis Trianto, Yazid Bindar

16:30-17:30

Poster Session

18:00-19:30

Welcome Reception

PORT CAVE D'OCCI

Shuttle bus will pick up you at 17:45 at the venue site (Toki Messe)

Room 2 (3F Conference room 302B)

10:00-11:00

Materials testing & Evalution I

Chairperson: Eisaku Umezaki (Nippon Institute of Technology)

	F
2	Estimation of Surface Pressure and Strength of Flapping Wings
	Chyanbin Hwu, W.B. Young, D.J. Wu, J.R. Wang
8	High Strain-Rate Compressive Response of Friction Stir Welded AA6061-T6 Joints: Effect of Welding Parameter
0	Takashi Yokoyama, Kenji Nakai, Kazuyoshi Katoh
9	Orientation Dependence of In-Plane Tensile Properties of Paperboard and Cardboard: Experiments and Theories
9	Takashi Yokoyama, Kenji Nakai
20	Microchanneling and Lining Layer Formation by Spontaneous Infiltration in Fe-Cu system
20	Takuhiro Kodama, Tatsuva Ohmi, Manabu Iguchi

11:15-12:15

Materials Testing & Evalution II

Chairperson: Kenji Nakai (Okayama University of Science)

	Study on Durability of Fiber-Mixed Planting Soils with Wood Chips for Rainfall
30	Study on Durability of Fiber-Mixed Planting Soils with Wood Chips for Rainfall Hiroshi Takahashi, Masato Mori, Satoshi Shibata, Takahashi Naganuma
	Hiroshi Takahashi, Masato Mori, Satoshi Shibata, Takahashi Naganuma
31	Impact Force Identification of FRP Composite Tanks
31	Satoshi Atobe, Takeshi Kitagawa, Hisao Fukunaga
	Compressive Mechanical Properties and Microstructure of Porous PLLA/PCL Polymer Blend and PLLA/HAP
36	Composite Material
	Joo-Eon Park, Mitsugu Todo
	Effect of Geometry of Load-Sensing Part Incorporated with Specimen in Measurement of Stress-Strain Relation Under
37	High Strain Rate Condition
	Tsutomu Umeda, Koji Mimura

14:00-15:00

Materials Testing & Evalution III

Chairperson: Takashi Yokoyama (Okayama University of Science)

<u> </u>	Chair persons Takashi Toko Jama Chiretsity of Science)	
38	Cyclic Biaxial Stress Measurement Method Using the Grain Growth Direction in Copper Foil	
36	Yuichi Ono, Cheng Li, Daisuke Hino	
42	Full-Field Evaluation of Surface Fatigue Damage Using Laser	
42	Akira Kato, Satoshi Kohmura	
106	Experimental Study on Phases of direct and edge Waves from Piston Source	
100	Osami Kobori	
48	Evaluation of Stress Concentration Near the Crack Tip Using Mechanoluminescent Coating	
40	Yusuke Imai, Chao-Nan Xu, Wen-Xue Wang	

15:15-16:30

Materials Testing & Evalution IV

Chairperson: Chyanbin Hwu (National Cheng Kung University)

58	Nondestructive Inspection of Local Thinning by Infrared Thermography With SUS Film Heater
56	Nagahisa Ogasawara, Masanori Ito, Norimasa Chiba
60	Visualization of Internal Defect of a Pipe Using Mechanoluminescence Material Daisuke Ono, Chengzhou Li, Nan BU, Chao-Nan Xu
65	An Experimental Study on Contact Condition of Pipe Joints With a SUS316L Metal Gasket for Hydrogen Pipelines Nan Bu, Naohiro Ueno, Osamu Fukuda, Satoru Koyanagi
75	Improvement of Delamination Energy of Sputtered SiC Film by Forming Conical Precipitates at Interface Masahiko Kato, Masato Hayashi, Hiroyuki Akebono, Atsushi Sugeta
73	Masahiko Kato, Masato Hayashi, Hiroyuki Akebono, Atsushi Sugeta
	Determination of Viscoelastic Model by Using Viscoelastic Split Hopkinson Pressure Bar Technique
/6	Takayuki Tamaogi, Yuji Sogabe, Takashi Yokoyama

16:30-17:30

Poster Session

18:00-19:30

Welcome Reception

PORT CAVE D'OCCI

Shuttle bus will pick up you at 17:45 at the venue site (Toki Messe)

Room 3 (3F Conference room 302A)

10:00-11:00

Biomechanics I

Chairperson: Shigeo Tanaka (Kanazawa University)

	r	
	The Strain Distribution Around Dental Implants in Cortical/Cancellous Bone Models Determined Via a Digital Image	
5	Correlation Method	
	Yasuyuki Morita, Lihe Qian, Mitsugu Todo, Yasuyuki Matsushita, Masakazu Uchino, Kazuo Arakawa, Kiyoshi Koyano	
10	Measurement of Relative Motion Between Femur and Artificial Hip Joint Made of Shape Memory Alloy	
10	Takuya Tsuchihashi, Masaru Higa, Satoshi Kakunai	
25	Shrinkage Behavior of a Light Cure Resin Composite in Cavities	
33	Shrinkage Behavior of a Light Cure Resin Composite in Cavities Kazuo Arakawa, Taichi Furukawa, Yasuyuki Morita, Masakazu Uchino, Hirohide Kaida	
55	In Vivo Contact Areas of Tibiotalar Joint Measured with Magnetic Resonance Imaging Makoto Sakamoto, Yosei Nodaguchi, Yuji Tanabe, Keisuke Sasagawa, Yosuke Kubota, Hidenori Yoshida, Koichi Kobayashi	
33	Makoto Sakamoto, Yosei Nodaguchi, Yuji Tanabe, Keisuke Sasagawa, Yosuke Kubota, Hidenori Yoshida, Koichi Kobayashi	

11:15-12:30

Biomechanics II

Chairperson: Yasuyuki Morita (Nagoya University)

	A Three-Dimensional Comparison of the Mechanical Axis of Lower Limb and Ground Reaction Force in Standing
63	Posture
	Koichi Kobayashi, Makoto Sakamoto, Taro Kimura, Yuji Tanabe, Go Omori, Yoshio Koga
71	In-Vitro Measurement of Cement Mantle Pressure during Stem Insertion in Total Hip Arthroplasty
/ 1	Yuji Tanabe, Hidetane Kato, Hiroyoshi Iwaki
115	Angiogenesis in Mechanically Stimulated Periodontal Tissue Mirei Chiba, Aya Miyagawa, Kaoru Igarashi, Haruhide Hayashi
113	Mirei Chiba, Aya Miyagawa, Kaoru Igarashi, Haruhide Hayashi
84	Three-Dimensional In Vivo Contact Analysis For Wrist Joint During Wrist Motion
04	Keisuke Sasagawa, Makoto Sakamoto, Hidenori Yoshida, Koichi Kobayashi, Yuji Tanabe
90	Accuracy Verification of Image-Matching in a Setting Method for the Stem During Total Hip Arthroplasty
90	Yosuke Kubota, Makoto Sakamoto, Koichi Kobayashi, Yoshio Koga, Yuji Tanabe

14:30-15:30

Biomechanics III

Chairperson: Kazuo Arakawa (Kyushu University)

	Chan person. Razuo Arakawa (Kyusha Oliversity)	
91	Numerical Analysis of Pressure on Cup Surface of THA	
91	Shin Kai, Makoto Sakamoto, Koichi Kobayashi, Izumi Minato, Yoshio Koga, Yuji Tanabe	
	Biomechanical Analysis of Acetabular Defects Reconstruction with Impaction Bone Grafting in Revision Total Hip	
93	Arthroplasty	
	Yuji Tanabe, Tomoyuki Yamazawa, Satoshi Iida, Shunji Kishida, Hirotsugu Ohashi	
101	Relationship Between Residual Deformations and Strength Reduction of Tendinous Tissues Under Overloading	
101	Ei Yamamoto, Tadashi Kajiwara	
117	Observation of Intracellular Ca ²⁺ Dynamics in Three-Dimensionally Cultured Osteoblasts Under Dynamic Loading	
	Shigeo Tanaka, Naoki Sugiura	

15:45-16:30

Biomechanics IV

Chairperson: Ei Yamamoto (Kinki University)

	Chair person. En Tamamoto (Timita Cinversity)	
		Propagation of Mechanical Strain Under External Stretch in Mammalian Cells
Ľ		Takeomi Mizutani, Kenichi Doi, Yasuyuki Morita, Masakazu Uchino, Mitsugu Todo, Hisashi Haga, Kazushige Kawabata
	(17	Stress Analysis on the Arch of the Foot by Photodynamic Method
Ľ		Heizo Kajiwara, Tsutomu Ezumi
		Experimental Examination on Mechanical Characteristic in State of Stress of Artificial Hip Joint using Stress Freezing
	76	Method
		Nobutaka Maezaki, Tsutomu Ezumi, Masashi Hachiya

16:30-17:30

Poster Session

18:00-19:30

Welcome Reception

PORT CAVE D'OCCI

Shuttle bus will pick up you at 17:45 at the venue site (Toki Messe)

Room 1 (3F Conference room 301)

9:30-10:30

Fluid Engineering V

Chairperson: Seiichi Sudo (Akita Prefectural University)

Ciiui	man person. Senem Sudo (Timu Telectular Sinversity)	
	High-Speed Visualization of Total Radiation and CARS Measurement of Vibrational/Rotational Temperatures Behind	
	Hypervelocity Shock Waves of 5 km/s	
	Kotaro Sakurai, Takashi Osada, Shota Niinomi, Masanori Ota, Kazuo Maeno	
44	LIF-CCD Measurement on the Interaction of Jet and Inclined Plane Wall in Low-Pressure Chamber	
44	Sho Kurihara, Ai Yanagi, Shunsuke Yamazaki, Masanori Ota, Kazuo Maeno	
51	Characteristics of Liquid Film Flowing around a Horizontal Circular Cylinder (Film Thickness and Wave Length of	
	Standing Wave)	
	Kenji Katoh, Tatsuro Wakimoto	
	On the Sliding and Profile of a Liquid Droplet on a Rotating Disk	
	Kenji Katoh, Mituyoshi Higashine, Tatsuro Wakimoto, Ryohei Masuda	

10:45-12:00

Fluid Engineering VI

Chairperson: Kazuo Maeno (Chiba University)

Ciiui	Enail person: Razdo Macho (Cinoa Oniversity)	
53	A Study on Capillary Flow under the Effect of Dynamic Wetting	
33	Kenji Katoh, Tatsuro Wakimoto, Sinichiro Nitta	
	Effects of the Inner Nozzle Diameter and Hole Diameter on the Frequency of Bubble Formation From a Multi-Hole	
61	Nozzle	
	Hirofumi Ooyabu, Akira Hiratsuka, Ryoji Tsujino, Manabu Iguchi	
81	Measurement of Velocity Field of Viscoelastic Flow in Asymmetric Planar Contraction Geometry of Slot Die	
01	Tomohiko Anazawa, Nobuyuki Fujisawa, Takeaki Tsuda, Hiroshi Yoshiba, Takahiro Yajima, Takayuki Yamagata	
94	Flow Analysis within Left Ventricle Supported by Intracardiac Pump	
24	Daisuke Tanimura, Tetsuya Yano, Seiichi Sudo, Yoshinori Mitamura	
98	An Experimental Study on Laminar-Turbulent Transition in a Pulsating Pipe Flow	
90	Hong-Sen Lo, Jiun-Jih Miau	

14:00-15:00

Poster Session

15:15-16:00

Fluid Engineering VII

Chairperson: Hideaki Monji (University of Tsukuba)

99	Turbulence Structure Flowing Over a Wavy Wall (Flow Visualization and Time-Series PIV Measurement) Kentaro Tanaka, Shinji Nakagawa, Tomoyuki Hatakeyama, Masaru Ishizuka
	Kentaro Tanaka, Shinji Nakagawa, Tomoyuki Hatakeyama, Masaru Ishizuka
103	Conditional Sampling Stereoscopic PIV Measurement around Blade of Vertical Axis Wind Turbine
103	Masaaki Honda, Tsuneo Noguchi, Deog-Hee Doh, Masahiro Takei, Susumu Ishii
1104	Suppression of Dioxin Formation by Dechlorination in Combustion Processes
	Hirotoshi Kawabata, Tateo Usui, Hideki Ono

Room 2 (3F Conference room 302B)

9:30-10:45

Materials testing & Evalution V

Chairperson: Satoru Yoneyama (Aoyama Gakuin University)

	Chair persons surora Tone junia (Tojuna Gurani Chiversity)	
82	Cyclic Pressure Measurement Method Using Electrodeposited Copper Foil	
62	Yuichi Ono, Cheng Li, Toru Maruhisa	
85	Formation of La-Ni Alloy Films by Molten Salt Electrochemical Process	
0.5	Hirokazu Konishi, Yukihide Yoshihara, Tateo Usui	
86	Anodic Oxidation of the Inner Wall of the Microchannel Formed by Ti-Al Reactive Infiltration	
80	Masashi Ishida, Tatsuya Ohmi, Masatoshi Sakairi, Manabu Iguchi	
87	Impact Behavior of CFRP Tubes for Full-Lap Collision of Automobiles	
07	Hyoung-Soo Kim, Yoshio Aoki, Goichi Ben	
102	Transport of Nitrogen From Molten Iron to Gas Phase Through CaO-Al ₂ O ₃ Melt	
102	Hideki Ono, Takanori Satoh, Tateo Usui	

11:00-12:00

Optical Methods and Image Processing I

Chairperson: Tateo Usui (Osaka University)

	enum persona runda esun (esumu eni tersity)	
1	Shape Measurement by Phase Shift Method with Coloring Grid	
4	Toru Matsui	
18	Full-Field Unwrapping of Isochromatic Fringe Orders from Photoelastic Fringes Obtained Using Plane Polariscope	
10	Wataru Murata, Yudai Nomura, Eisaku Umezaki	
47	Observation of Cylindrical Surfaces using Laser Microscope with a Wide Field of View	
47	Isami Nitta, Rintaro Ebuchi, Hai Huan	
50	Stress Analysis Method for a Residual Stress Model	
	Toshiki Kihara	

14:00-15:00

Poster Session

15:15-16:15

Optical Methods and Image Processing II

Chairperson: Motoharu Fujigaki (Wakayama University)

Ciiai	man person: Wotonard I djigaki (Wakayana Oniversity)	
) ()	Vibration Characteristics for Parallel-Type and Series-type Triple-layered Piezoceramic Bimorphs	
	Yu-Hsi Huang, Chien-Ching Ma	
57	A Dynamic Model of Bubble Coalescence in Newtonian fluids	
37	Boris Boshenyatov	
64	Computing Strain Distributions on a Three-Dimensional Surface From Measured Displacements	
	Satoru Yoneyama	
34	Stereo X-ray Imaging for 3D Channel Flow Measurements	
	Tomomasa Hemura, Wah-Keat Lee, Yasuhumi Yamamoto, Yuhki Haga	

Room 3 (3F Conference room 302A)

9:30-10:30

Multiphase Flows I

Chairperson: Hiroshi Takahashi (Tohoku University)

12	Movement of Micro Particles under Electrical Field
12	Kazuki Oshii, Je-Eun Choi, Hiromiti Obara, Masahiro Takei
14	Two-Phase Flow Pattern Analysis in Multi-Scale Time-Frequency Domain
14	Zhongke Gao, Ningde Jin, Zhenya Wang, Xiaofei He
	Effects of Channel Scale and Wettability on Flow Pattern and Pressure Drop of Air-water Two-phase Flow in
15	Horizontally Placed Rectangular Millimeter Scale Channels
	Takehiko Kumagai, Masahito Sato, Manabu Iguchi
26	Flow and Heat Transfer Control to Improve the Performance of Fin-Tube Type Heat Exchanger by Vortex Generator
	Toshihiko Shakouchi, Keiji Hori, Ichiro Suzaki, Koichi Tsujimoto, Toshitake Ando

10:45-11:30

Multiphase Flows II

Chairperson: Masahiro Takei (Nihon University)

	Chair person: wasanno raker (which emversity)	
27	Behavior of a Chain of Very Small Bubbles in Stagnant Water Toshihide Fujikawa, Tomomasa Uemura, Manabu Iguchi	
21	Toshihide Fujikawa, Tomomasa Uemura, Manabu Iguchi	
28	Study on Hole Cleaning in Horizontal Foam Drilling: Pressure Loss of Foam Flow in Annulus	
20	Amna Gumati, Hiroshi Takahashi	
	Compact and Strong Magnetic Field Generators Loading Cryo-Cooled High Temperature Superconducting Bulk	
	Magnets and Their Application to Magnetic Separation Technique for Water Purification	
	Magnets and Their Application to Magnetic Separation Technique for Water Purification Tetsuo Oka, Hidetaka Yamazaki, Hirotaka Seki, Katsuyoshi Tanaka, Takafumi Kimura, Daiki Mimura, Satoshi Fukui, Jun	
	Ogawa, Takao Sato, Manabu Ooizumi, Kazuya Yokoyama, Mitsugi Yamaguchi	

14:00-15:00

Poster Session

15:15-16:15

Multiphase Flows III

Chairperson: Toshihiko Shakouchi (Mie University)

	Casting and Simultaneous Welding of Tri-Nickel Aluminide on Dissimilar Materials by Centrifugal Combustion
72	Synthesis
	Tatsuya Ohmi, Manabu Iguchi
74	Fabrication of Porous Transpiration-Cooling Device by Powder-Metallurgical Microchanneling Process Masutaka Omura, Tatsuya Ohmi, Takehiko Kumagai, Manabu Iguchi
/4	Masutaka Omura, Tatsuya Ohmi, Takehiko Kumagai, Manabu Iguchi
92	Flow Patterns of Gas-Liquid Two-Phase Flow through an Abrupt Expansion in Millimeter-Scale Rectangular Channel
	Takashi Oke, Takehiko Kumagai, Manabu Iguchi
97	Heat Flux Measurement and Analysis on Boiling Heat Transfer in a Helically Coiled Tube
21	Masatomi Suzuki, Isao Kataoka, Masuo Kaji, Goichi Matsui

Monday, Nov 30, 2009

Room 1 (3F Conference room 301)

10:00-11:00

Monitoring & Measurement Analysis

Chairperson: Akira Kato (Chubu University)

Ciiui	Chair person: 71kma Rato (Chuoa Chiversity)	
66	PIV Experiments on the Wake of Two Tandem Cylinders	
00	Kazuo Ohmi, Sanjeeb Prasad Panday, Basanta Joshi	
77	Variation of Phase Separation Property with B Content in Liquid Fe-Cu System Katsuhiro Yamaguchi, Hideki Ono, Yasuhisa Tachiiri, Tateo Usui	
//	Katsuhiro Yamaguchi, Hideki Ono, Yasuhisa Tachiiri, Tateo Usui	
89	An Experimental Investigation of Nitrate Concentration in Groundwater of Kathmandu	
-	D. R. Pathak, A. Hiratsuka, R. Tsujino, M. Iguchi	
116	New Optical Method to Measure Slight Difference of Contact Angle	
1110	Tatsuro Wakimoto, Kenji Katoh, Mitsuhiro Higashine	

12:30-17:30

Excursion

Yahiko Shrine & Hot Spring

18:30-20:00

Banquet

Toki Messe Observation Deck (31Floor)

Monday, Nov 30, 2009

Room 2 (3F Conference room 302B)

10:00-11:15

Optical Methods and Image Processing III

Chairperson: Isami Niita (Niigata University)

	yama paraona isanin i (ingum e mi aisa)		
	Development of Displacement Measurement System at Long-Range in Sampling Moire Method		
00	Hiroyuki Kondo, Motoharu Fujigaki, Akihiro Masaya, Yoshiharu Morimoto, Makiko Nakabo		
	Development of Three-Dimensional Stress Analysis of Rapid Prototyping Model Using Digital Holography and Index		
70	Matching		
	Yohsuke Tanaka, Shigeru Murata		
73	Identification of Reconstruction Distance in Phase-shifting Digital Holography for Microscope		
	Riku Nishitani, Motoharu Fujigaki, Yoshiharu Morimoto		
	Application to Bin-picking of 3D Shape Measurement Using Whole-Space Tabulation Method with MEMS Scanner		
88	Grating Projector		
	Daisuke Asai, Teiji Miyagi, Motoharu Fujigaki, Yoshiharu Morimoto		
118	Hair-Pin Vortices from a Pair of Surface Mounted Rectangular Cylinders at a Low Reynolds Number		
110	Shou-Yen Chao, Jung-Hua Chou, Shi-Ming Sheu		

12:30-17:30

Excursion

Yahiko Shrine & Hot Spring

18:30-20:00

Banquet

Toki Messe Observation Deck (31Floor)

Monday, Nov 30, 2009

Room 3 (3F Conference room 302A)

10:00-11:00

Multiphase Flows IV

Chairperson: Takatsune Narumi (Niigata University)

24	Effect of Initial Acceleration History on Transition to Turbulence in Pipe Flow
24	Kazuyoshi Nishihara, Yusuke Nakahata, Charles W. Knisely, Manabu Iguchi
25	Relationship Between Internal Flow and Fan Noise of Cross Flow Fan
	Kazuyoshi Nishihara, Yusuke Nakahata, Charles W. Knisely, Manabu Iguchi
	Fundamental Study on Forced Convection Heat Transfer of Microencapsulated Phase Change Material Suspensions
100	Flowing in Circular Mini-Pipe
	Takehiro Hashimoto, Shinji Nakagawa, Tatsuya Hayashi, Tomoyuki Hatakeyama, Masaru Ishizuka
105	Bouncing Behavior of Rotating Cylinder on Wall in Water
1 1())	Hideaki Monji, Masato Sato

12:30-17:30 **Excursion**

Yahiko Shrine & Hot Spring

18:30-20:00 Banquet

Toki Messe Observation Deck (31Floor)

Poster Session

(Nov 28 16:30-17:30) (Nov 29 14:00-15:00)

	Effect of Cyclic Stretch on the Morphology of Osteoblasts
7	Teng-Hsiang Yang, Fong-Chin Su
	Cryo-Cooled High Temperature Superconducting Bulk Magnets and Their Application to the Magnetizing Devices for
33	Permanent Magnets
	Nobutaka Kawasaki, Toshiki Muraya, Jun Imai, Satoshi Fukui, Jun Ogawa, Takao Sato, Yoshitaka Ito, Toshihisa Terasawa,
	Tetsuo Oka
46	Study on New Production Method of Biomass Ethanol from Food Wastes
	Takeshi Umemoto, Koji Mori, Hiromasa Kitayama
59	The Friction Welding Method with Translational Friction by Intermediate Material
	Ryoji Tsujino, Masaharu Hashimoto, Yasunobu Kakuma, Kiyoshi Matsura, Mitsuhiro Nomura
62	Accuracy of Three-Dimensional Evaluation of Spinal Structure Using Image Registration Technique
	Kiyoko Kazama, Koichi Kobayashi, Keisuke Sasagawa, Makoto Sakamoto
67	Numerical Simulation of Subsonic and Transonic Flutter Characteristics for AGARD WING 445.6 with Two-Way
	Method
	Wen-Juan Ye, Young-Shin Lee, Hae-Lan Kim
79	Study for the Cause of Root Fracture - Influence for Adjacent Tissue by the Condensation of Root Canal Filling -
	Hideaki Endo, Tomofumi Sasaki, Satoshi Abe, Hidemi Itoh, Hidetoshi Shimauchi, Masashi Komatsu, Makoto Sakamoto
80	Stress Analysis of Root Fracture - Relationship Between Mechanical Stress and Root Fracture During Treatment of Root
	Canal Filling -
	Hideaki Endo, Tomofumi Sasaki, Satoshi Abe, Hidemi Itoh, Hidetoshi Shimauchi, Masashi Komatsu, Makoto Sakamoto
95	Model Experiments on Water Entrainment and Oxygen Transfer of Air Lifting Tower Placed in Bottom of Reservoir
	Akinori Nakata, Takaya Yanobu, Masataka Yamagishi, Yusaku Hosoki
96	Measurement of Local Burning Velocity Vector in a Turbulent Premixed Bunsen Burner Flame
	Yoshiki Noguchi, Yoichi Shiomi
108	Crevice Corrosion Test Method and Corrosion Analysis of Zn-Coated Steel
	Hiroyuki Saito, Takao Handa
100	Development of Body-Weight Support Treadmill Training (BWSTT) System with a Magnetorheological Fluid Actuator
109	and Control of its Supporting Point
	Daisuke Nishio, Junji Furusho, Sousuke Tanida, Takuya Ozawa, Takehito Kikuchi
110	Development of 3rd Prototype of Intelligent Ankle Foot Orthosis with MR Fluid Brake (3rd i-AFO)
	Kikuko Otsuki, Takehito Kikuchi, Sosuke Tanida, Takashi Yasuda, Junji Furusho
	Force Display System Using MR Fluid Brakes and its Application to Upper Limbs Rehabilitation
	Junji Furusho, Kazuhiro Nishiwaki, Makoto Haraguchi, Kazuyoshi Nishihara Basic Study of Rehabilitation System for Upper Limbs with Redundant ER Fluid Brakes
112	Junji Furusho, Hiroshi Kobayashi, Makoto Haraguchi
-	6-DOF Upper Rehabilitation Support Robot for Upper Extremities Using ER Fluid Actuators
113	and its application to the assessment in Rehabilitation Training
	Shiro Isozumi, Junji Furusho, Kunihiko Oda, Takehito Kikuchi
	Basic Study on Evaluation System of Trajectory Tracking for Upper Limbs Using 3D Rehabilitation Robot "EMUL" and
114	a Functional NIRS
	Mayumi Sonobe, Makoto Haraguchi, Takehito Kikuchi, Junji Furusho, Masahito Mihara, Megumi Hatakenaka, Ichiro Miyai