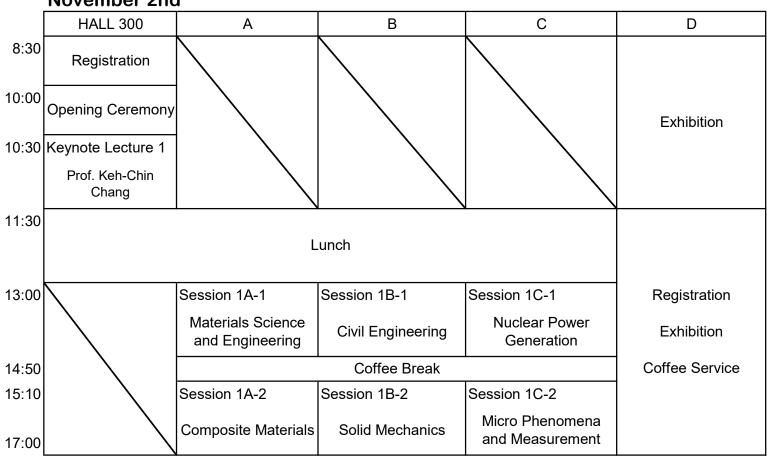
November 1st Meeting Room 304 (3rd Floor)

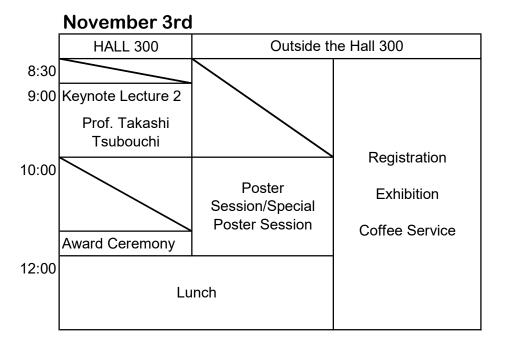
17:30 Registration 18:00

Welcome reception

19:30

November 2nd





12:45 Excursion: Visiting Tsukuba Science City!

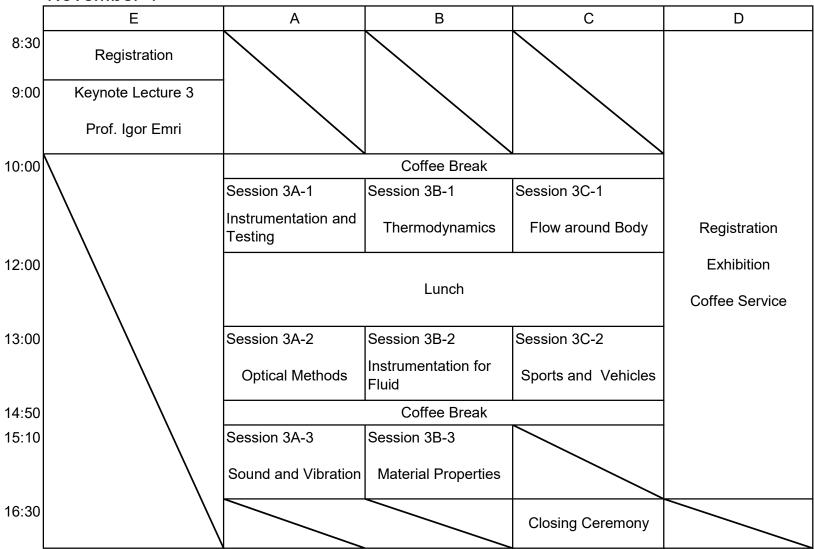
Tour bus departs from the entrance. Group 1 : at 12:45

Group 2: at 13:15

☆Tour at JAXA requires your ID card (passport, driving license card, student card etc.).

17:30 Banquet: Okura Frontier Hotel Tsukuba Room "Jupiter" on the 3rd floor





Technical Program Schedule and Contents

The affiliation is the first author's one.

The underline denotes the speaker of the presentation.

The A-number is the abstract number.

The FL-number is the paper number bound in the proceedings of the symposium.

November 2nd

A022

10:00-10:20 Opening Ceremony (HALL 300)

Chairperson: Kar-Hooi CHEONG (AIST)

Mirei CHIBA (Vice-president of the Japanese Society for Experimental Mechanics, Tohoku Univ.)

Hideaki MONJI (Chairperson of Organizing Committee of 14th ISEM, Univ. of Tsukuba)

10:30-11:30 Keynote Lecture 1 (HALL 300)

Chairperson: Kenji KATOH (Osaka City Univ.)

Two-phase PIV measurement in turbulent near wake laden with binary-size group of particles

K. C. Chang and W. C. Chen

National Cheng Kung University, Taiwan

----- Room A (November 2nd) -----

13:00-14:50 1A-1:Materials Science and Engineering

Chairperson: Yuichi ONO (Tottori Univ.)

A052 Study on Damage of Metal Thin Films Deposited on Polymer Thin Films

(FL-424) <u>Toshiro KOBAYASHI</u>, Hideaki FURUMOTO, Akinobu YAMAGUCHI, Hideyuki KANEMATSU and Ion Cosmin GRUESCU

National Institute of Technology, Tsuyama College, Japan

Effects of Pre-milling of Raw Powders on Reaction Sequence of Thermite

Combustion Synthesis of Tri-Nickel Aluminide

Tatsuya OHMI, Motohiro IBUKI

Hokkaido University, Japan

A025 An Effect of Centrifugal Force on Growth of Carbon Nanotubes

(FL-393) <u>Hayato KOBAYASHI</u>, Shuichi ARIKAWA

Meiji University, Japan

A074	Transfer of Cu through Multiple Phases of Iron and Silver
(FL-378)	Kengo KATO, Hiroki ITO and Hideki ONO
	Osaka University, Japan
A028	Evaluation of Elastic Modulus of bcc Fe Including Edge Dislocation under
(FL-401)	Cyclic Shear Stress by Molecular Dynamics
	Tsubasa UETA and Shuichi ARIKAWA
	Meiji University, Japan
15:10-17:00	1A-2:Composite Materials
	Chairperson: Shuichi ARIKAWA (Meiji University)
A042	Development of Joining Method by Cylindrical Pin Using Thermal Expansion
(FL-392)	of CFRTP
	Yuya KODAIRA, Nobuhiko KOBAYASHI, Naofumi KODAIRA,
	Atuko TAKEI and Noboru NAKAYAMA
	Taiyo industry Co.,ltd , Japan
A096	Fundamental Study of Sensing Technique Using MCF Rubber Sensor Under
(FL-410)	Radiation Environment
	Ryo IKEDA, Kunio SHIMADA, Hideharu TAKAHASHI
	and Hiroshige KIKURA
	Tokyo Institute of Technology, Japan
A057	NO ₂ Absorptivity of Porous Ceramics from Glass Fiber-Reinforced Plastic
(FL-399)	and Clay
	Naoya IKEDA, Khairul Azhar Bin MOKHTAR, Kentaro YASUI,
	Koya SASAKI, Toshifumi YUJI and Hiroyuki KINOSHITA
	University of Miyazaki, Japan
A056	Methylene Blue Dye Adsorptivity of Reductively Fired GFRP/Clay Ceramics
(FL-397)	Koya SASAKI, Kentaro YASUI, Yuko MIYAKAWA
	and Hiroyuki KINOSHITA
	University of Miyazaki, Japan
A058	The Solar-Radiant Heat-Reducing Effects of Moss-Covered and Lawn-
(FL-400)	Covered Ceramics
	Tomoyuki HATA, Keita KAMICHIKA, Kentaro YASUI, Kenichi ITO,
	Minoru FUJISAKI and Hiroyuki KINOSHITA
	University of Miyazaki, Japan

	Room B (November 2 nd)
13:00-14:50	1B-1: Civil Engineering
	Chairperson: Hiroshi SAITO (Kanazawa Inst. of Tech.)
A012	Study on Strength Properties of Fiber-Liquefied Stabilization Soil Produced
(FL-381)	by Using Corn Husk Fiber
	Nga Thanh DUONG, Tomoaki SATOMI and Hiroshi TAKAHASHI
	Tohoku University, Japan
A013	Study on Possibility of Predicting the Ground Strength in Disaster Sites by
(FL-380)	Falling Cone from UAV
	Kyosuke SUNEYA, Tomoaki SATOMI and Hiroshi TAKAHASHI
	Tohoku University, Japan
A014	Study on Workability and Strength Properties of Fiber-Liquefied Stabilization
(FL-376)	Soil
	Isao KIMURA, Tomoaki SATOMI and Hiroshi TAKAHASHI
	Tohoku University, Japan
A020	Experimental Study on Seismic Device for Rectangular Water Tank at Short
(FL-371)	Period Earthquake
	<u>Daisuke AOKI</u> , Satoshi NAMEDA, Yoshiyuki BANDO,
	Naohiko WATANABE and Moriaki SUZUKI
	Morimatsu Industry Co., Ltd, Japan
A076	A Study of Flow over a Complex Topography near Northeast Coast in Taiwan
	Yi-Xuan LIU, Jiun-Jih MIAU and Yng-Ru CHEN
	National Cheng Kung University, Taiwan
15.10 17.00	1B-2: Solid Mechanics
15:10-17:00	Chairperson: Motoharu FUJIGAKI (Univ. of Fukui)
A099	Experimental Evaluation of Mode III Interlaminar Crack Growth in CFRP
AU))	Laminates by ECT Test
	Yuki KATAYAMA, Hiroshi SAITO and Isao KIMPARA
	Kanazawa Institute of Technology, Japan
A092	Influence of Coupling Effect on Mode I Static Interlaminar Fracture
120/2	

Ryosuke KIKUCHI, Yoshiki FURUSAWA,

Hiroshi SAITO and Isao KIMPARA

Kanazawa Institute of Technology, Japan

Toughness of CFRP Laminates

A066	Influence of Stent Deployment on Mechanical Response of Coronary Artery
(FL-374)	Haruna KITAGAWA, Ichiro SHIMIZU, Akira WADA,
	Tatsuyuki NAKATANI, Xinming ZHAO and Takashi TAMURA
	Okayama University of Science, Japan
A067	Finite Element Analysis for Optimization of Forming Process of Thin-Walled
	AZ31 Magnesium Alloy Tube by Multistage Deep Drawing-Ironing
	Kodai USHIRO, Ichiro SHIMIZU, Xinming ZHAO, Akira WADA
	and Haruna KITAGAWA
	Okayama University of Science, Japan
A060	Effects of the Residual Stress Generated in an Acetabular Cup on the Pull-Out
	Force in the Artificial Hip Joint with a Structure for Preventing Dislocation
	Yuki KAWAMURA, Yuki TANIFUJI,
	Mitsushi OHMASA and Ei YAMAMOTO
	Kindai University, Japan

----- Room C (November 2nd) -----

13:00-14:50 1C-1:Nuclear Power Generation

Chairpersons: Masaaki TANAKA (JAEA) and Takashi NAOE (JAEA)

A008 Acoustic Vibration Measurement for the Pulsed Spallation Neutron Source

(FL-363) Takashi NAOE, Hiroyuki KOGAWA, Takashi WAKUI,

Makoto TESHIGAWARA, Katsuhiro HAGA and Masatoshi FUTAKAWA

Japan Atomic Energy Agency, Japan

A082 Effects of Temperature Fluctuation on PIV Measurement of Natural

(FL-402) Circulation Flow Field

Mitsuyo TSUJI, Kosuke AIZAWA, Jun KOBAYASHI,

Akikazu KURIHARA and Yasuhiro MIYAKE

Japan Atomic Energy Agency, Japan

A083 Planar Triple Parallel Jet Sodium Test for Thermal Striping Analysis Code

Planar Triple Parallel Jet Sodium Test for Thermal Striping Analysis Code
Validation in Sodium-cooled Fast Reactor

Masaaki TANAKA, Kazuhiro NAGASAWA and Jun KOBAYASHI

Japan Atomic Energy Agency, Japan

A061	Observation of Melting Metal Behavior Caused by High Power Pulsed Laser Irradiation Using High Speed Photography Technique
	Yuji USHITSUKA, Makoto TESHIGAWARA, Takashi NAOE,
	Masatoshi FUTAKAWA, Koichi SARUTA, Toshiharu MURAMATSU,
	Tomonori YAMADA, Nobuatsu TANAKA and Kazuhiko YAMASAKI
	Ibaraki University, Japan
A051	Hydrodynamic Evaluation of Pool Scrubbing under Wetwell Venting
(FL-413)	Giedre ZABLACKAITE, Hideo NAGASAKA and Hiroshige KIKURA
	Tokyo Institute of Technology, Japan
15:10-16:40	1C-2:Micro Phenomena and Measurement
	Chairpersons: Masaaki TANAKA (JAEA) and Takashi NAOE (JAEA)
A091	Removal of Micrometer-Sized Particles on a Solid Wall by High-Speed
(FL-422)	Impinging Air Jet
	Tatsuro WAKIMOTO, Akihiro TAKAHASHI, Kazuhiko SOEMOTO
	and Kenji KATOH
	Osaka City University, Japan
A075	Improving the Efficiency of the Filtered Containment Vessel System via
(FL-419)	Developing the Venturi-nozzle Scrubber of the Wet-type Filter
	Tri Vien TRAN, Hideharu TAKAHASHI, Tadashi NARABAYASHI
	and Hiroshige KIKURA
	Tokyo Institute of Technology, Japan
A047	Effect of Wall Boundary on Growing and Collapsing Behaviors of Cavitation
	Bubble
	Shunsuke KAWAMURA, Takashi NAOE, Nobuatsu TANAKA and
	Masatoshi FUTAKAWA
	Ibaraki University, Japan
A105	Development of Vector Ultrasonic Velocity Profiler Method using Multi-
	elements Ultrasonic Transducer
	Hideharu TAKAHASHI, Jevin TANIUS OWEN,
	Wongsakorn WONGSAROJ, Ari HAMDANI and Hiroshige KIKURA
	Tokyo Institute of Technology, Japan

November 3rd

9:00-10:00 Keynote Lecture 2 (HALL 300)

Chairperson: Hideaki MONJI (Univ. of Tsukuba)

Robots, Go out to the City! Takashi TSUBOUCHI

University of Tsukuba, Japan

10:00-12:00 Poster Session (Outside HALL 300)

A003 Wind Loads on a tilted Plate

Ping-Han CHUNG, Chin-Cheng CHOU, Cheng-Yang CHUNG,

Ray-Yeng YANG and Kung-Ming Chung

National Cheng Kung University, Taiwan

A004 Surface Pressure Patterns for a Compressible Cavity Flow Using Pressure

Sensitive Paint

Kung-Ming CHUNG, Yi-Xuan HUANG, Han-Yi WU, Keh-Chin CHANG

and Kuan-Tsung KAO

National Cheng Kung University, Taiwan

A006 Flow and Mixing Characteristics of Excited Elevated Transverse Jets

Rong Fung HUANG and Ching Min HSU

National Taiwan University of Science and Technology, Taiwan

A011 Comparison of Tar in Syngas under Pyrolysis and Steam Gasification

Conditions in a Fluidized Bed Gasifier

Takahiro MURAKAMI and Hajime YASUDA

National Institute of Advanced Industrial Science and Technology, Japan

A016 Analyzing of Free Surface Behavior in Continuous Casting Process through

Physical Water Model

Pooria Nazem JALALI, Somesh Bharadwaj TOLETY, Reza Safavi NICK,

and Taishi MATSUSHITA

SWERIM AB, Sweden

A018 Preparation of Hollow Silica Nanoparticles Using Ultrasonically Generated

(FL-391) Microbubbles as Template

Shunpei TAZAKI, Takaya KAJIHARA, Tatsuya MAKINO

and Toshinori MAKUTA

Yamagata University, Japan

A019	The Optimisation of Orifice Shape for Increasing Microbubbles from the
(FL-390)	Ultrasonic Microbubble Generator
	Ryo KAMEDA and Toshinori MAKUTA
	Yamagata University, Japan
A021	Observation of Oil Behavior Floating on Washing Tank
	Yuya ISHIDA, Kenji AMAGAI, Hirosuke HATAYAMA,
	Madoka MURAI and Norikazu SAKUMA
	Tokyo Metropolitan Industrial Technology Research Institute, Japan
A023	Effects of Processing to Plastic Ankle Foot Orthosis (PAFO) on their
	Mechanical Strength
	Miyuki KAWAMURA, Ichiro KITAYAMA and Daisuke MORIOKA
	Kindai University, Japan
A029	Dynamic Tensile Stress-Strain Properties of Nuclear-Grade Graphite IG-11
	Kenji NAKAI, Siti Nurhanim Binti MD SUYOD
	and Takashi YOKOYAMA
	Okayama University of Science, Japan
A032	Usability Improvement of a Smartphone by using a Smartphone Accessory
(FL-406)	Noriyasu HIROKAWA, Hiroki NAKAZONO, Haruki MINAMI
	and Mitsushi OHMASA
	Kindai University, Japan
A039	On the Reduction of Noise and Vibration in Mechanical Systems by the
	Active Dynamic Vibration Absorber Using Magneto-Rheological Elastomer
	Takumi NAITO, Osamu TERASHIMA and Toshihiko KOMATSUZAKI
	Toyama Prefectural University, Japan
A041	Experimental Investigation of Blade Configuration Designed for Vertical
(FL-386)	Axis Wing Turbine by Genetic Algorithm
	Hiroki NINOMIYA and Shuya YOSHIOKA
	Ritsumeikan University, Japan
A043	Research on Deformation and Mechanical Load acting on Plastic Ankle Foot
(FL-408)	Orthosis
	Daisuke MORIOKA, Ichiro KITAYAMA and Miyuki KAWAMURA
	Takushoku University, Japan
A044	Microdamage Evaluation for Cortical Bone After Non-Destructive Creep
	Loading
	Yuki TANIFUJI, Yuki KAWAMUAR and Ei YAMAMOTO
	Kindai University, Japan

A053	Fracture Simulation of Membrane Structure Applied a Dynamic Load
	Toshiro KOBAYASHI, Kiyokazu IGA, Wataru IKEDA,
	Hideaki FURUMOTO, Shigeru NAGASAWA and Hideyuki KANEMATSU
	National Institute of Technology, Tsuyama College, Japan
A059	Influence of Collision Chips by Using Drop Tower
	Shuta FUJWIARA, Hiroyuki FUJIWARA and Takahiro ENDOH
	National Defense Academy, Japan
A062	Visualization of the Load on the Human Body and Mechanical Analysis of
(FL-421)	Injury Mechanism Caused by the Posture during da Vinci Surgery
	Kazuya CHIGIRA, Yasumi ITO, Toshie SUGITA, Kaori SAKURAMOTO,
	Ryuichi YAMADA, Tatsuya FUKUOKA, Sota KONDO,
	Yoshiyuki KAGIYAMA, Tetsuya NEMOTO and Hiroshi MITSUI
	University of Yamanashi, Japan
A069	Fatigue Strength Properties of QT Hollow Steel using Super Rapid Heating
(FL-382)	Tadao FUKUTA, Yoshihito KUROSHIMA, Manato KANESAKI
	and Koichi OZAKI
	Okayama Prefectural University, Japan
A070	Detection of Pressure Wave in-service Pipeline by AE Parameters
(FL-407)	Tetsuya SUZUKI, Masaomi KIMURA, Yohei ASADA and Issaku AZECHI
	Niigata University, Japan
A077	Effect of Ultrasonic Needle Punching on Inter-laminar Tensile Strength and
(FL-383)	Mode I Inter-laminar Fracture Toughness of Unidirectional CFRTP Laminate
	Iori NISHIHARA, Kiyotaka OBUNAI, Manato KANESAKI,
	Tadao FUKUTA and Kouichi OZAKI
	Okayama Prefectural University, Japan
A078	On the Magnus Effect of a Circular Cylinder near Surface - Experiment and
	Computation
	Hsin-Hua LEE, Chin-Chou CHU, Jie-Chao LEI and Chien C. CHANG
	National Taiwan University, Taiwan
A080	Measurement of Photoelastic Constant of Diamond-Like Carbon Film
(FL-398)	Ryosuke SAITO, Kenji GOMI and Yasushi NIITSU
	Tokyo Denki University, Japan
A081	Accuracy Evaluation of 2-D Displacement Measurement using Image of
	Square Grid Pattern
	Haruki YOKOYAMA, Kenji GOMI and Yasushi NIITSU
	Tokyo Denki University, Japan

A085	Use of X-ray CT and Elastic Wave Method for Evaluation of Cracking
(FL-415)	Damage in-service Structure
	Yuma SHIMAMOTO and Tetsuya SUZUKI
	Kitasato University, Japan
A098	Accuracy Evaluation of Microsoft Kinect Sensor during Dynamic
(FL-385)	Movements in Cardiopulmonary Resuscitation (CPR)
	Satoru OKAMOTO, Hiroki IWASHIKI, Kenji KARINO and Nao SATO
	Shimane University, Japan
A104	Modeling of Excitation Source Using Measurement Data for Electromagnetic
	Wave Analysis
	Takuma WAKI and Toru TAKAHASHI
	University of Tsukuba, Japan
10:00-12:00	Special Poster Session (Outside HALL 300)
	Poster presentation by students of High Schools and Colleges of Technology

C01 A study on Spatter Spheroidizing Mechanism in Metal Arc Welding

Tatsuki ANDO, Akihiro TAKAHASHI, Naoyuki YAMAMOTO,

Mitsuteru TOMIYAMA and Toshinobu TOYOHIRO

National Institute of Technology, Miyakonojo College, Japan

C02 Two Types of Tensile Fracture Morphologies on Latewood in Japanese Cedar

Shuma YUKI, Akihiro TAKAHASHI, Naoyuki YAMAMOTO

and Toshinobu TOYOHIRO

National Institute of Technology, Miyakonojo College, Japan

C03 Fracture Toughness of Stabilizing ZrO2 Ceramics at Different Sintering Temperatures

> Rina FUKUSHIGE, Kasidit DITSOPHA, Akihiro TAKAHASHI, Don KAEWDOOK, Naoyuki YAMAMOTO and Toshinobu TOYOHIRO

> > National Institute of Technology, Miyakonojo College, Japan

C04 Tensile Mechanical Properties of MDFed Magnesium Alloy at Cryogenic Temperature

> Kaito NONAKA, Akihiro TAKAHASHI, Naoyuki YAMAMOTO, Toshinobu TOYOHIRO, Hiromi MIURA and Masakazu KOBAYASHI National Institute of Technology, Miyakonojo College, Japan

C05 Tensile Test of Notched Round Bar Tensile Specimen and Stress Triaxiality in Wrought Magnesium Alloy Keita HIROIKE, Akihiro TAKAHASHI, Naoyuki YAMAMOTO and Toshinobu TOYOHIRO National Institute of Technology, Miyakonojo College, Japan C06 Behavior of Motile Sperm in Microfluidic Channels Toranosuke SAKAMOTO, Yasutaka HAYAMIZU, Toru HYAKUTAKE, Takeshi GONDA, Shinichi MORITA, Shigeru OHTSUKA and Shinichiro YANASE National Institute of Technology, Yonago College, Japan C07 Effect of Torsion on the Mixing of Helical Pipe Flow Akihiro NAKAMURA, Yasutaka HAYAMIZU, Toru HYAKUTAKE, Takeshi GONDA, Shinichi MORITA, Shigeru OHTSUKA and Shinichiro YANASE National Institute of Technology, Yonago College, Japan C08 Experimental Study on the Straight-Bladed Vertical-Axis Turbine for Wave **Energy Conversion** Keisuke KITANO, Yasutaka HAYAMIZU, Takayuki SUZUKI, Shinichi MORITA1, Shigeru OHTSUKA, Manabu TAKAO, Youichi KINOUE and Toshiaki SETOGUCHI National Institute of Technology, Yonago College, Japan C09 Heat Transfer Characteristics of a Horizontal Tube in an Inner Circulated Fluidized Bed Takahiro OISHI, Hideki TAKEUCHI, Yusumi NAGAHASHI, Hirokazu KAJIWARA, Tetsuo TAKEUCHI and John R GRACE National Institute of Technology, Kochi College, Japan C10 Sensing on Arc Welding -Effect of Disturbance and Its Avoidance Method-Tomoki TATSUMI, Tatsuya YOSHIOKA and Katuya KUGAI Kindai University Technical College, Japan C11 Development of Tuna-Type Robot - Optimal swimming motion-Shougo TAKAYAMA and Katsuya KUGAI Kindai University Technical College, Japan C12 Study on Aerodynamic Characteristics of Flapping Wing based on a Bird's structure

Sakichi OTSUBO, Yasuaki TAKAGI and Tadateru ISHIDE

C13 Aerodynamic Drag Reduction using a Coating Material in Flapping Wing Yasuaki TAKAGI, Sakichi OTSUBO and Tadateru ISHIDE

National Institute of Technology, Kisarazu College, Japan

C14 Residual Stress Characteristics in Gear Grinding using CBN Wheels

Masateru OUE and Takeshi MIYAMOTO

Kobe City College of Technology, Japan

C15 A Study on Development of Robot Arm Control Terminal for Robotics Education Targeted at Elementary and Junior High School Students

Kohei IIDA and Natsuki TAKAGI

National Institute of Technology, Miyakonojo College, Japan

C16 Monitoring the Local Flexibility of Backbone Structure of a Protein Molecule by Nuclear Magnetic Resonance Spectroscopy

Shun ARAI, Yuichi ISE and Kaori CHIBA

National Institute of Technology, Ibaraki College, Japan

(11:45-12:00) Award Ceremony of Special Poster Session (HALL 300)

November 4

9:00-10:00 Keynote Lecture 3 (Room E)

Chairperson: Masayuki NAKADA (Kanazawa Inst. of Tech.)

Open Questions in Behavior of Polymers at High-Rates of Loading

Ivan SAPUNOV, Marko BEK and Igor EMRI

University of Ljubljana, Slovenia

------ Room A (November 4) -----

10:10-12:00 3A-1: Instrumentation and Testing

Chairperson: Shien RI (AIST)

A048 Change of Ultrasonic Reflecting Echo Induced by Growth of Barnacles

(FL-404) Adhered on Test Piece

Shuhei FUJIMOTO, Michihiro KAMEYAMA, Micho SHIMADA

and Tomoyuki TANIGUCHI

National Maritime Research Institute, Japan

A005	Development of an Electromagnetic Acoustic Transducer Using a Complex
	Magnetic Pole for Direct and Alternating Current
	Riichi MURAYAMA, Qiang LIU and Takumi WATANABE
A 020	Fukuoka Institute of Technology, Japan
A030	Nondestructive Testing for Surface Crack in Metal Additive Manufacturing
	Wenxiong SHI, Qi ZHANG, Huimin XIE and Zhanwei LIU
A 071	Tsinghua University, China
A071	Measurement Method of Crack Width Change Using Sampling Moire Method
	Takuya MIYAJIMA, Motoharu FUJIGAKI, Junki SUGIYAMA,
	Tomoaki NAKAJIMA, Yoshiyuki KUSUNOKI, Masato ISO,
	Shigekatsu MINAMIDE and Masahumi OBATA
4.002	University of Fukui, Japan
A093	Full-field Defect Detection and Strain Mapping at the Nanoscale and Atomic
	Scale Using Moiré Phase Analysis
	Qinghua WANG, Shien RI, Hiroshi TSUDA
	National Institute of Advanced Industrial Science and Technology, Japan
13:00-14:50	3A-2: Optical Methods
10.00 100	5A-2. Optical Methods
10.00 1.100	Chairperson: Takenobu SAKAI (Saitama Univ.)
A088	•
	Chairperson: Takenobu SAKAI (Saitama Univ.)
	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space
	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing
	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO
A088	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan
A088	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera
A088	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera Junki SUGIYAMA and Motoharu FUJIGAKI
A088 A072	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera Junki SUGIYAMA and Motoharu FUJIGAKI University of Fukui, Japan
A088 A072	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera Junki SUGIYAMA and Motoharu FUJIGAKI University of Fukui, Japan Dynamic Displacement Measurement by Moiré Methodology Using Video
A088 A072	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera Junki SUGIYAMA and Motoharu FUJIGAKI University of Fukui, Japan Dynamic Displacement Measurement by Moiré Methodology Using Video Recording and Compressed Images
A088 A072	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera Junki SUGIYAMA and Motoharu FUJIGAKI University of Fukui, Japan Dynamic Displacement Measurement by Moiré Methodology Using Video Recording and Compressed Images Shien RI, Qinghua WANG, Peng XIA and Hiroshi TSUDA
A072 A094	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera Junki SUGIYAMA and Motoharu FUJIGAKI University of Fukui, Japan Dynamic Displacement Measurement by Moiré Methodology Using Video Recording and Compressed Images Shien RI, Qinghua WANG, Peng XIA and Hiroshi TSUDA National Institute of Advanced Industrial Science and Technology, Japan
A072 A094 A015	Chairperson: Takenobu SAKAI (Saitama Univ.) Full-color and Real-time 3D Measurement System Using Whole-space Tabulation Method with Multi-thread Processing Motoharu FUJIGAKI and Takumi KISHIMOTO University of Fukui, Japan Dynamic Small Rotate Angle Measurement Using Sampling Moire Camera Junki SUGIYAMA and Motoharu FUJIGAKI University of Fukui, Japan Dynamic Displacement Measurement by Moiré Methodology Using Video Recording and Compressed Images Shien RI, Qinghua WANG, Peng XIA and Hiroshi TSUDA National Institute of Advanced Industrial Science and Technology, Japan Displacement Measurement by Speckle Interferometry with Phase Analysis

A045 (FL-403)	AAC Symbol Identification Task Performed by Individuals with a Variety of Aphasia
	Tomu DANURA, Tetsuya HIROTOMI, Mineko BOOKA,
	Chisato SHIBASAKI and Haruka IKENO
	Shimane University, Japan
15:10-16:20	3A-3: Sound and Vibration
	Chairperson: Qinghua WANG (AIST)
A026	Study on Regular Structure Deformed by Acoustic Waves
(FL-395)	Yu IGAKI and Shuichi ARIKAWA
	Meiji University, Japan
A027	A Study of Tire Cavity Resonance Using Expanded Thompson Theory
(FL-405)	Hiroshi SUGIYAMA, Yohsuke TANAKA and Shigeru MURATA
	Kyoto Institute of Technology, Japan
A036	Experimental Study on the Effects of the Materials of the Pick Guard for the
	Electric Guitar on the Performance Sounds
	Taisei ITO, Osamu TERASHIMA, Hiroyuki YAMADA
	and Shota MIZUKAMI
	Toyama Prefectural University, Japan
	Room B (November 4)
10:10-12:00	3B-1: Thermodynamics
Chairpe	rsons: Toru SAWAI (Kindai Univ.) and Manabu FUCHIHATA (Kindai Univ.)
A010	Effect of Pyrolysis Treatment on Aspect Ratio of Crushed Biofuels
	<u>Toru SAWAI</u>
	Kindai University, Japan
A024	Droplet Evaporation of Azeotropic Mixture on a Superheated Surface
(FL-389)	Takashi SUZUKI, Akihiko MITSUISHI and Kenzo KITAMURA
	Toyohashi University of Technology, Japan
A084	Effect of Water Droplet Diameter Profile in Water-in-Oil Emulsion Fuel on
	Diesel Engine Operation Characteristics
	Manabu FUCHIHATA and Takafumi TENTORA
	Kindai University, Japan

A101	Measurement of Heat Transfer Performance on Multi-port Tube under Actual Condition for Air Conditioner
	Chen ZHENG, Tomoki HIROKAWA, Ryuhei KAJI and Hirokazu FUJINO
	Daikin Industries, LTD, Japan
A089	Bioactive Effects by Means of Microbubble Bathing
(FL-420)	Hiroto NARITA, Hiroaki HASEGAWA and Yutaka MASUDA
	Utsunomiya University, Japan
12 00 14 50	
13:00-14:50	
	Chairpersons: Takashi SUZUKI(Toyohashi Univ. of Tech.)
4.050	and Kar-Hooi CHEONG(AIST)
A050	Sonoluminescence Elemental Analysis using External Transducer in Aqueous
(FL-416)	Solution
	Sardini Sayidatun NISA SAILELLAH, Hideharu TAKAHASHI
	and Hiroshige KIKURA
. 0.50	Tokyo Institute of Technology, Japan
A079	Development of the National Standard of Japan for Measurement Traceability
	in Low Liquid Hydrocarbon Flow Rates
	Kar-Hooi CHEONG, Ryouji DOIHARA and Noriyuki FURUICHI
	National Institute of Advanced Industrial Science and Technology, Japan
A090	Development of a Liquid Micro Flowrate Measurement Method Using Image
	Processing
	Masahiko YODA, Kar-Hooi CHEONG and Hideaki MONJI
	University of Tsukuba, Japan
A087	Visualization of pH Change and Flow in a Liquid Induced by Atmospheric
(FL-379)	Pressure Plasma Irradiation
	Ryosuke KOBAYASHI and Tetsuya YANO
	Hirosaki University, Japan
15:10-16:20	3B-3: Material Properties
	Chairperson: Ichiro SHIMIZU (Okayama Univ. of Tech.)
A100	Evaluation for Non-linear Viscoelasticity of Polypropylene with Static Tests

Takenobu SAKAI, Munira Binti AZUMI, Takumi MIMURA

and Kensuke KAGEYAMA
Saitama University, Japan

(FL-384)

A033	Computing Stresses from Measured In-plane Strains in Viscoelastic Body
(FL-387)	under Plane Stress Condition
	Shotaro TAGUCHI, Kyohei TAKEO and Satoru YONEYAMA
	Aoyama Gakuin University, Japan
A064	Evaluation of Torsional Characteristics of A6061 Aluminum Alloy Friction
(FL-373)	Welded Butt Joint by Digital Image Correlation Method
	Sho OGAWA, Yuichi ONO and Takashi YOKOYAMA
	Tottori University, Japan
	Room C (November 4)
10:10-12:00	3C-1: Flow around Body
	Chairperson: Jiun-Jih MIAU (National Cheng Kung Univ.)
A007	Investigation of Aerodynamic Stability of a Long-span Flat Roof based on
(FL-418)	Wind Tunnel Experiment and FSI Simulation with Free-vibration Technique
	Yuki TAKADATE and Yasushi UEMATSU
	Building Research Institute, Japan
A009	Aerodynamic Characteristics of High Fitness Ratio Missile with Non-
(FL-417)	Axisymmetric Fore Head
	Ting_Tsung CHANG and Hsien_Hao TENG
	National Chung-Shan Institute of Science and Technology, Taiwan
A038	Experimental Study on the Influence of Reduced Frequency on Thrust Force
(FL-409)	of Oscillating Wing in a Periodic Flow
	Yoshitaka ISODA, Yohsuke TANAKA and Shigeru MURATA
	Kyoto Institute of Technology, Japan
A095	Experimental Study of Unsteady Fluid Forces of the Airfoil during Impulsive
(FL-423)	Incidence Variation
	Naoto KATO, Hiroki TAKAYANAGI and Hiroaki HASEGAWA
	Utsunomiya University, Japan
A031	Experimental Study on Characteristics of Turbulent Boundary Layer over
(FL-412)	Compliant Wall
	Yukinori ICHINOSE and Nobuyoshi FUJIMATSU
	Toyo University, Japan

13:00-14:50 3C-2: Sports and Vehicles

3.00-14.30	3C-2. Sports and venicles
	Chairpersons: Tatsuro WAKIMOTO (Osaka City Univ.)
A034	An Application of DMT Analysis to the Flow around a Tire on Vehicle Body
	Masahiro TANAKA, Shigeru MURATA, Yohsuke TANAKA
	and Hayato YOGOU
	Kyoto Institute of Technology, Japan
A065	Aerodynamic Effects of Soccer Ball's Surface Texture
	Sungchan HONG, Seunghee LEE and Takeshi ASAI
	University of Tsukuba, Japan
A068	Estimation of Pressure Field Around a Circular Cylinder Rolling on the
(FL-396)	Ground
	Katsuyuki YOKOYAMA, Shigeru MURATA, Yohsuke TANAKA
	and Hayato YOGOU
	Kyoto Institute of Technology, Japan
A073	Flow Over a Complex Bluff Body: Investigation of Flow Around the Cyclist
(FL-425)	Jia-Jun CHEN, Jiun-Jih MIAU, Yng-Ru CHEN and Chien-Hsun TSENG
	National Cheng Kung University, Taiwan
A097	Study on Drag Force Acting on Car Line Model
	Yuta KUROSAWA, Hideaki MONJI, Takeshi ASAI
	and Sungchan HONG
	University of Tsukuba, Japan

16:30-17:00 **Closing Address** Chairperson: Kar-Hooi CHEONG (AIST) Ichiro SHIMIZU (Okayama Univ. of Science)